

EAST WEST UNIVERSITY

Online Travel Agency Management System

By

Hasib Ahmed Abir
ID: 2013-01-96-014

Supervised By

Dr. Md. Nawab Yusuf Ali
Associate Professor
Department of Computer Science & Engineering
East West University



The Project has been submitted to the department of the Computer Science & Engineering at East West University in the partial fulfillment of the requirement for the degree of Masters of Science in Computer Science and Engineering.

August, 2016

DECLARATION

The Project has been submitted to the Department of the Computer Science and Engineering, East West University in the partial fulfillment of the requirement for the degree of Masters of Science in Computer Science and Engineering performed by me under supervision of Associate Professor Dr. Md. Nawab Yousuf Ali, Department of Computer Science and Engineering at East West University. It is also needed to certify that, the project work under the course 'Project (CSE597)'. I hereby, declare that this project has not been submitted elsewhere for the requirement of any degree or diploma or any other purposes.

Signature of the candidate

(Hasib Ahmed Abir)

LETTER OF ACCEPTANCE

The project entitled **Online Travel Agency Management System** submitted by Hasib Ahmed Abir, ID: 2013-1-96-014 to the Department of Computer Science and Engineering, East WEST University, Dhaka, Bangladesh is accepted as satisfactory for the partial fulfillment of the degree of Masters of Science in Computer Science and Engineering on July 10, 2016.

Board of Examiners:

1. -----

Dr. Md. Nawab Yousuf Ali
Associate Professor (Project Supervisor)
Department of Computer Science and Engineering
East WEST University, Dhaka, Bangladesh

2.

Dr. Md. Mozammel Huq Azad Khan
Professor (Chairperson)
Department of Computer Science and Engineering
East WEST University, Dhaka, Bangladesh

ABSTRACT

In this project, I develop and design online based software titled “**Online Travel Agency Management System**”. I develop this web based software for the automation of a Travel Agency. This client server based software will serve all the agents of a travel agency and record all the information of a passenger. Through this software, the agency can find out all the money transactions and passenger services from remote places. Necessary reports are also been supplied by this software.

In this project, there is a login page for each employee of the travel agency. The admin user can define roles to all the users with respect to their user type. That means, the admin can authenticate that which type of user can see or perform operation into which pages. The software is device independent.

ACKNOWLEDGEMENT

It has been a great pleasure for me to develop “Online Travel Agency Management System”. I have gathered sufficient knowledge and experience during this project.

I would like to thank my honorable teacher and supervisor of this project. Dr. Md Nawab Yousuf Ali, Associate Professor, Department of Computer Science and Engineering, East West University who guided me to proper analysis of the system and helped to develop an elegant and efficient system.

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TABLE OF CONTENTS

Declaration	i
Letter of Acceptance	ii
Abstract	iii
Acknowledgement	iv
Table of contents	v-x

Chapter -1(Introduction)

1.1 Introduction:.....	2
1.2 Motivation:.....	2
1.3 Purpose of the Project.....	2
1.4 Objective	2
1.5 Scope	3

Chapter -2(Existing System).....

2.1 Existing System:.....	5
2.2 Proposed System:.....	5

Chapter -3(Requirement Analysis).....

3.1 Requirement Analysis:.....	7
3.1.1 Data Requirement:	7
3.1.2 Process Requirement:.....	7
3.2 Physical Design:	7
3.3 Use Case Diagram:	8
3.3.1 Use Case diagram for Officer (Data Entry):	8
3.3.2 Use Case diagram for Accounts Officer:	9
3.3.3 Use Case diagram for Admin Officer:.....	9
3.3.6 Activity Diagram for Officer:.....	10
3.3.5 Activity Diagram for Accounts Officer:.....	11
3.3.6 Activity Diagram for Admin Officer (Data Entry):	11
3.4 Software Requirements:.....	12
3.4.1 Web Server:.....	12
3.4.2 SQL Server:.....	12
3.4.3 Database Language:.....	12
3.4.4 Server Side Language:	12

3.5 Application Implementation:	12
3.5.1 HTML:.....	12
3.5.2 ASP.NET:.....	12
3.5.3 C# Programming Language:.....	12
3.5.4 .NET Framework:.....	13
3.5.5 CSS:.....	13
3.5.6 IIS Express Web Server:.....	13
3.5.7 SQL Server Management Studio 2012:	13
3.6 Database Implementation:	13
3.6.1 User type table (tbl_user_type):	13
3.6.2 User table (tbl_User):	14
3.6.3 Authentication menu table (tbl_autMenu):.....	15
3.6.4 Employ designation Table(tbl_emp_designation):	15
3.6.5 Employee table (tbl_employee):.....	16
3.6.6 Income type table (tbl_income_type):.....	17
3.6.7 Account table(tbl_account):	17
3.6.8 Account log table(tbl_acc_log):	18
3.6.9 Passenger agent table(tbl_passenger_agent):.....	19
3.6.10 Service agent table (tbl_service_agent):	20
3.6.11 Country table (tbl_country):.....	21
3.6.12 District table (tbl_dist):	21
3.6.13 Passport type table (tbl_passport_type):.....	21
3.6.14 Service type table (tbl_service_type):.....	22
3.6.15 Status table (tbl_status):	22
3.6.16 Gender Table (tbl_gender):.....	22
3.6.17 Service account log table (tbl_service_acc_log):.....	23
3.6.18 Passenger details table (tbl_passenger_details):	24
3.6.19 Passenger service log table (tbl_pass_service_log):.....	25
3.6.20 Passenger passport details table (tbl_passenger_pp_details):.....	26
3.6.21 Training details table (tbl_training_details):	26
3.6.22 Medical details table (tbl_medical_details):.....	27
3.6.23 Visa details table (tbl_visa_details):	28
3.6.24 Man power details table (tbl_man_power_details):.....	29
3.6.25 Flight table (tbl_flight):.....	30
3.6.26 Invoice table (tbl_invoice):.....	31

3.6.27 Passenger agent contract table (tbl_passenger_agent_contract):.....	31
3.6.28 Passenger agent payment table (tbl_passenger_agent_payment):.....	32
3.6.29 Passenger agent payment details (tbl_passenger_agent_pay_details):	33
3.6.30 Agent commission payment table (tbl_agent_comission_payment):	34
3.6.31 Agent commission payment details table (tbl_agent_comission_payment_details):.....	34
3.6.32 Service contract table (tbl_service_contract):.....	35
3.6.33 Office expense table (tbl_office_exp):	36
3.6.34 Office income table (tbl_office_income):	37
Chapter -4(Design Specification)	38
4.1 Interface	39
4.2. User Interface	39
4.2.1. Passenger Agent.....	40
4.2.2. Service Agent.....	41
4.2.3. Designation	41
4.2.4. Employee Info	42
4.2.5. Passenger	43
4.2.6. Passenger Contract Amount	46
4.2.7. Receive money.....	47
4.2.8. Payment money.....	49
4.2.9. Passenger Commission Amount.....	51
4.2.10. Status	51
4.2.11. Receive Type.....	51
4.2.12. Service List.....	52
4.2.13. Invoice Search	52
4.2.14. Account Statement Report.....	53
4.2.15. Medical Report.....	53
4.2.16. Manpower Report.....	54
4.2.17. Flight Report.....	54
4.2.18. Training Report	55
4.2.19. Visa Report	55
4.2.20. Passenger Details Report.....	56
4.2.21. Service Expense Report.....	57
4.2.22. Profit Report	57
4.2.23. Users.....	58
4.2.24. Authentication.....	59

Chapter -5(Conclusion and Future Work)	60
5.1 Conclusion.....	61
5.2 Future Work.....	61
References:	62

List of Figures:

Figure 3.1 – Use Case Diagram for Officer	9
Figure 3.2 – Use Case Diagram for Accounts Officer	9
Figure 3.3 – Use Case Diagram for Admin Officer	9
Figure 3.4 – Activity Diagram for Officer	10
Figure 3.5 – Activity Diagram for Accounts Officer	11
Figure 3.6 – Activity Diagram for Admin Officer	11
Figure 3.7- User type table	13
Figure 3.8 - User table.....	14
Figure 3.9 - Authentication menu table.....	15
Figure 3.10 - Employ designation Table	15
Figure 3.11- Employee table	16
Figure 3.12 - Income type table.....	17
Figure 3.13 - Account table.....	17
Figure 3.14 - Account log table	18
Figure 3.15 - Passenger agent table.....	19
Figure 3.16 - Service agent table	20
Figure 3.17 - Country table.....	21
Figure 3.18 - District table	21
Figure 3.19- Passport type table	21
Figure 3.20 - Service type table	22
Figure 3.21 - Status table.....	22
Figure 3.22 - Gender Table	22
Figure 3.23 – Service Account log Table	22
Figure 3.24 - Passenger details table.....	24
Figure 3.25 - Passenger service log table	25
Figure 3.26- Passenger passport details table.....	26
Figure 3.27- Training details table	26

Figure 3.28 - Medical details table.....	27
Figure 3.29 - Visa details table.....	28
Figure 3.30 - Man power details table.....	29
Figure 3.31 - Flight table.....	30
Figure 3.32 - Invoice table.....	31
Figure 3.33 - Passenger agent contract table.....	31
Figure 3.34 - Passenger agent payment table.....	32
Figure 3.35- Passenger agent payment details table.....	33
Figure 3.36 - Agent commission payment table.....	34
Figure 3.37- Agent commission payment details table.....	34
Figure 3.38- Service contract table.....	35
Figure 3.39- Office expense table.....	36
Figure 3.40 - Office income table.....	37
Figure 4.1- Login.....	39
Figure 4.2 - Default page.....	40
Figure 4.3- Passenger agent entry.....	40
Figure 4.4 -Service agent entry.....	41
Figure 4.5 - Designation.....	41
Figure 4.6 - Employee.....	42
Figure 4.7 - Passenger.....	43
Figure 4.8 - Passport Tab.....	43
Figure 4.9 - Training Tab.....	44
Figure 4.10 - Medical Tab.....	44
Figure 4.11 - Visa tab.....	45
Figure 4.12 - Manpower tab.....	45
Figure 4.13 - Flight tab.....	46
Figure 4.14 - Passenger agent contract.....	46
Figure 4.15 - Passenger agent contract receive.....	47
Figure 4.16 - Invoice Passenger agent payment contract.....	47
Figure 4.17- Other amount receive.....	48
Figure 4.18- Invoice for other receive.....	48
Figure 4.19 - Service center payment.....	49
Figure 4.20 - Passenger agent commission payment.....	49
Figure 4.21 - Payment invoice.....	50
Figure 4.22 - Other service payment.....	50

Figure 4.23- Other service payment invoice	50
Figure 4.24 - Passenger agent commission contract	51
Figure 4.25 - Status	51
Figure 4.26 - Receive Type	51
Figure 4.27 - Service type.....	52
Figure 4.28-User type	58
Figure 4.29- User	58
Figure 4.30- Password Change	58
Figure 4.31-Authentication	59

Chapter -1

(Introduction)

1.1 Introduction:

This web based software is developed for the automation of a travel agency. This client server based software can be run from the remote places. So, the travel agency can be run remotely. Admin user can authenticate each type of user by using the system. All the passenger details, agent payment details, passenger service details, agencies account information, etc. is stored in a secured computerized format. Authenticate user can print or show necessary reports from anywhere in the world. In a proper secured server where the software will be published, the agencies data security is ensured. There is no need to paper based manual system.

1.2 Motivation:

For my project I consider the online travel agency web application is my target object. There is not enough scope in Bangladesh to automate a travel agency through online and there are some limitations such as:

- Our users are not interested to use such software because of fear in computerized system and internet unavailability.
- Passengers have to suffer mostly due to paper based manual system. The paper processing time is very slow.
- To find out or making summery report or searching each passengers information is very time consuming.
- Agents has to wait for the payment every time whenever they need to be paid, because, the agency have to find out the remaining payment amount of each agents. This process also slowdown the passengers travel process.

1.3 Purpose of the Project

The system tends to replace existing paper based manual system for the processing each passenger or passenger agent payment system which is very time consuming. The system is very user friendly that is why; the agency can generate any reports or perform payment within minutes. Whether, the manual systems consumes days, even months. Sometimes they cannot find out specific document due to paper based system.

1.4 Objective

A client server based web application where a travel agency can record each passenger's details or service related information under an agent. The travel agency can record or store all the money transaction with respect to each passenger and agents. Admin users can authenticate each users by mentioning their parameter.

1.5 Scope

The software will provide service to the agent through the officer that they can enter service information of their passengers, accounts officer can record payment related information, and Admin user can maintain the right access into the system. Following are the scopes of the developed system that are elaborately discussed:

➤ For Officers (Data Entry):

- **Insert passenger information:** An officer can insert passenger information under an agent.
- **Insert passenger wise contractual amount:** An officer can insert passenger contractual amount under each agent.
- **Insert passenger wise commission:** An officer can insert passenger wise commission to the agent.

➤ For Accounts Officers:

- **Receive partial or full payment of each receive invoice:** An accounts officer can receive partial or full payment of each invoice to a specific account of the agency.
- **Make partial or full payment of each payment invoice:** An accounts officer can make partial or full payment of each invoice from a specific account of the agency.
- **Generate accounts related reports:** An accounts officer can generate accounts related reports from the software.

➤ For Admin Officers:

- **Create user type:** An admin officer can create user type.
- **Create user:** An admin officer can create user with respect to user type.
- **Change user password:** An admin user can change password of each user.
- **Access control into the software:** An admin officer can authenticate each user type by defining role.
- **Full access of the software:** An admin officer has the full access of the software.

Chapter -2

(Existing System)

In the field of development it is observed that there is still paper based manual system is running. This is a very lengthier process.

2.1 Existing System:

The features of existing process are listed below:

- Agents come to the travel agency containing list where they write down passenger information which is not sufficient.
- The demand money for bringing the passenger (Commission).
- Some agent comes to gain their previous dues.
- They have to wait huge time to get their payment.

2.2 Proposed System:

The proposed feature will provide the following activities to the agency:

- All the agency employees will have a secure access to the software.
- Admin user will define roles to the software user.
- All the payment record should be in a database.
- There will be several reports to get the proper service from the software.

Chapter -3

(Requirement Analysis)

Requirement analysis, also called requirements engineering, is the process of determining user expectation for a new or modified product. These features, called requirements must be quantified, relevant and detailed. In software engineering, such requirements are often called functional specification.

3.1 Requirement Analysis:

This web based application required the following requirements

3.1.1 Data Requirement:

During requirement analysis the following data has been identified for online travel agency management system:

- There are two types of agents, passenger agent and service agent.
- Every passenger must be under a passenger agent. Because, every passenger comes through an agent into the agency.
- Every passenger has a contractual amount.
- Service agent performed only services to the passengers.
- Passengers have some service information which needed to be recorded.
- Passenger agents get commission with respect to the passengers.
- The agency needs to record all the payment or receive payment information with respect to an invoice number. Payment invoice number and receive invoice number is different.

3.1.2 Process Requirement:

The following process requirements are identified for the automation:

- A valid panel for all the users. All employees should have a valid username and password to enter into the system.
- Admin user will define roles to each type of users.
- Data entry officer will perform passenger information entry, contractual amount define, commission amount define.
- Accounts officer can receive or pay amount to the agents.
- All the currency flow must be transparent to the admin and the accounts officer.

3.2 Physical Design:

The physical design relates to the actual input and output processes of the system. This is laid down in terms of how data is input into a system, how it is verified or authenticated, how it is processed, and how it is displayed as in physical design; the following requirements about the system are decided.

- Input Requirements
- Output Requirements
- Storage Requirements
- Processing Requirements

Put another way, the physical portion of systems design can generally be broken down into three subtasks-

- User Interface Design
- Data Design
- Process Design

3.3 Use Case Diagram:

Writing use cases in an excellent technique to understand and describe requirements.

3.3.1 Use Case diagram for Officer (Data Entry):

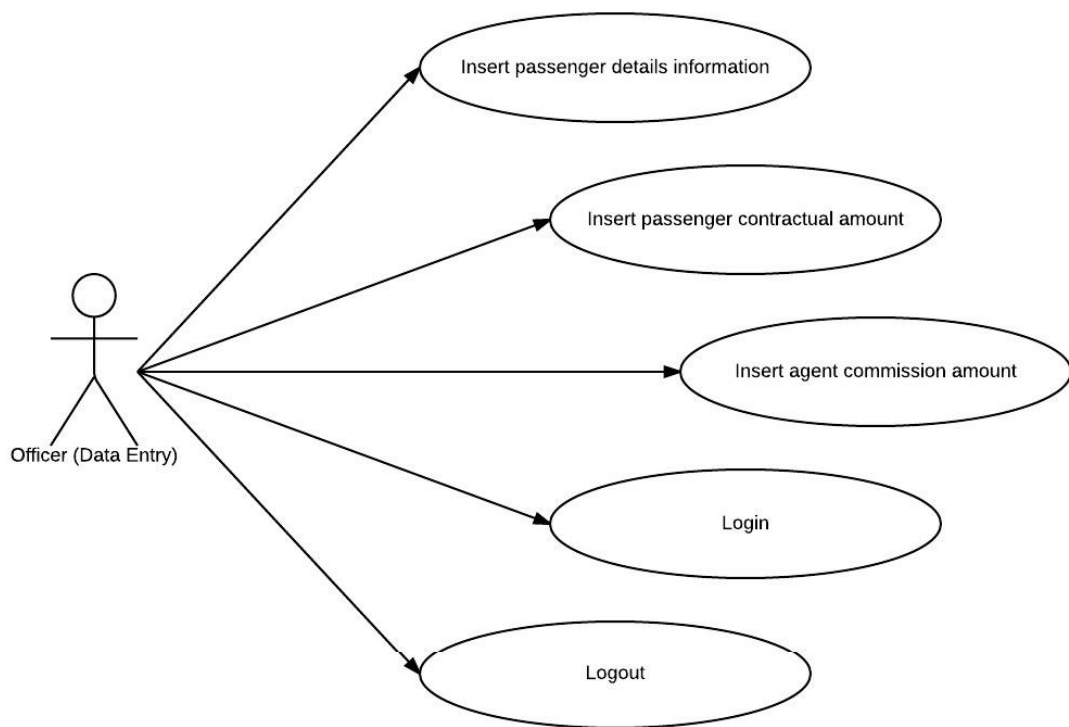


Figure 3.1 - Use Case Diagram for Officer

3.3.2 Use Case diagram for Accounts Officer:

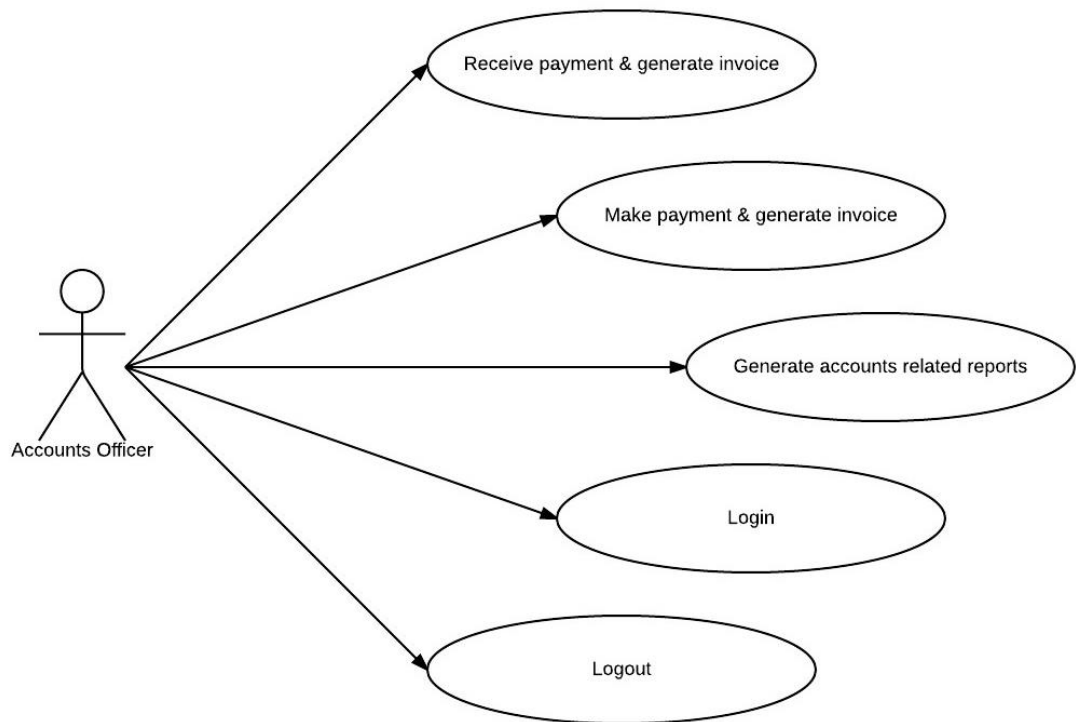


Figure 3.2 - Use Case Diagram for Accounts Officer

3.3.3 Use Case diagram for Admin Officer:

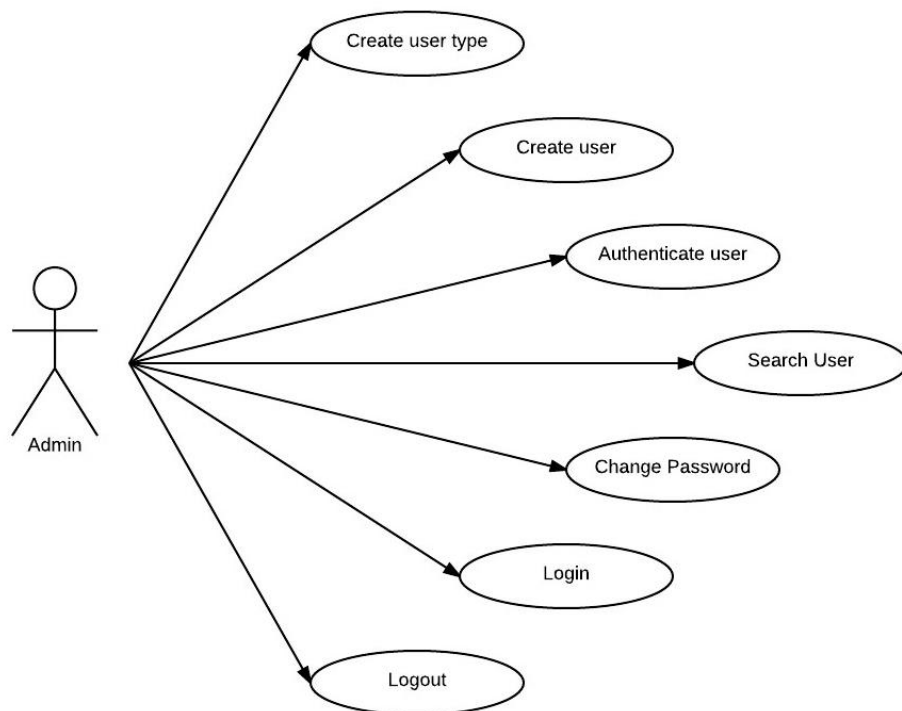


Figure 3.3 - Use Case Diagram for Admin Officer

3.3.6 Activity Diagram for Officer:

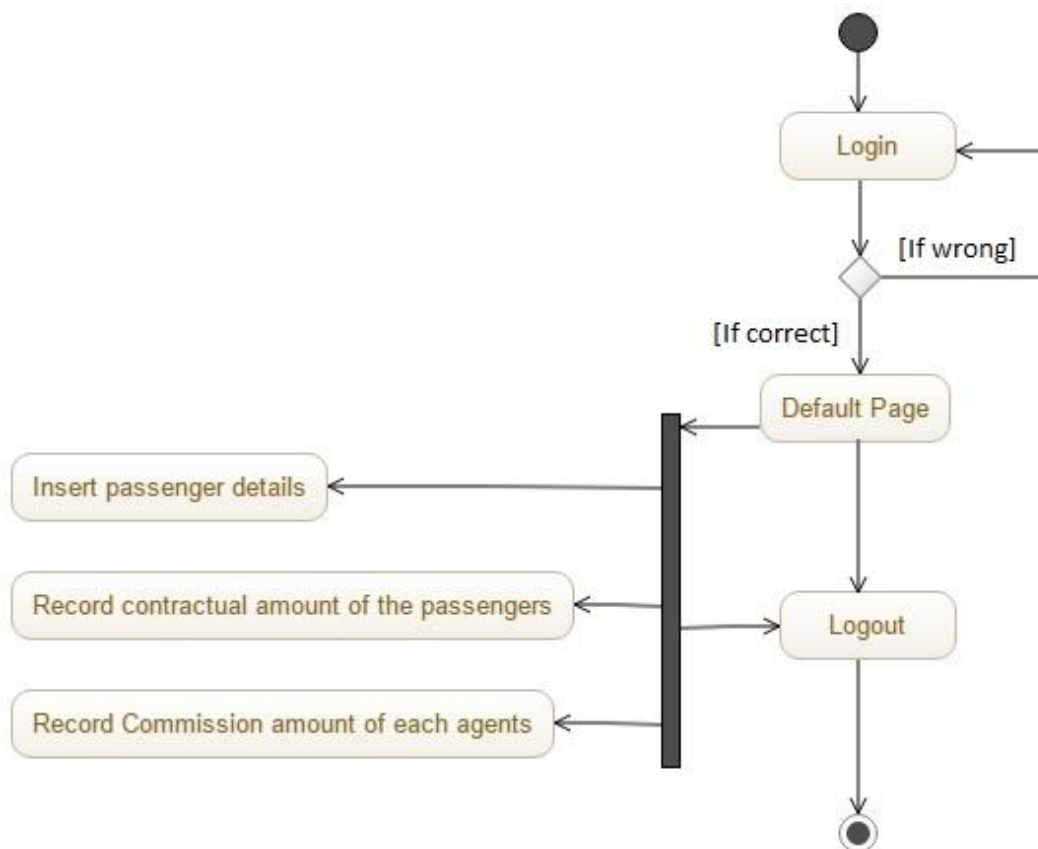


Figure 3.4 - Activity Diagram for Officer

3.3.5 Activity Diagram for Accounts Officer:

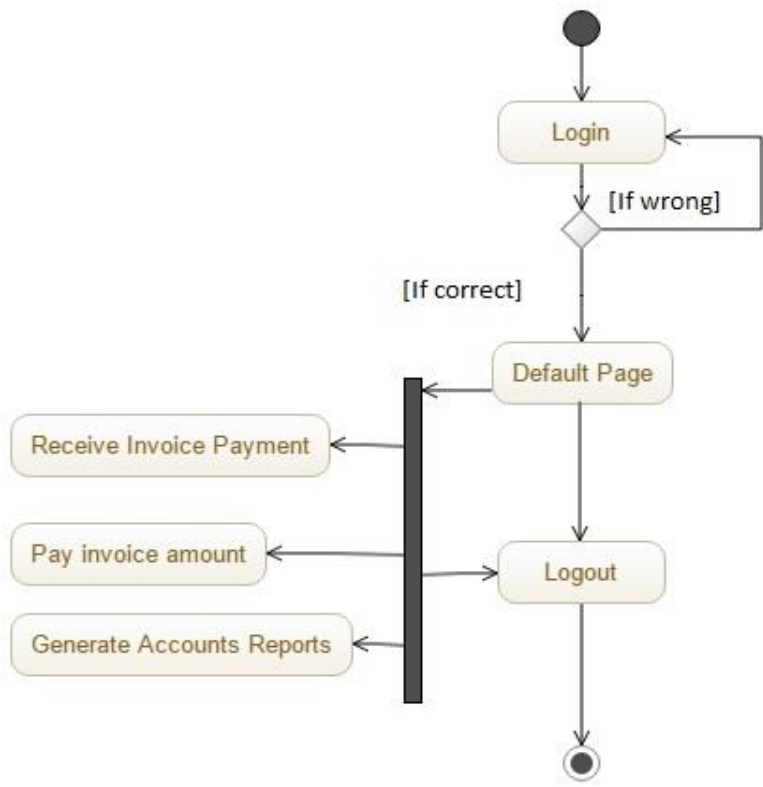


Figure 3.5 - Activity Diagram for Accounts Officer

3.3.6 Activity Diagram for Admin Officer (Data Entry):

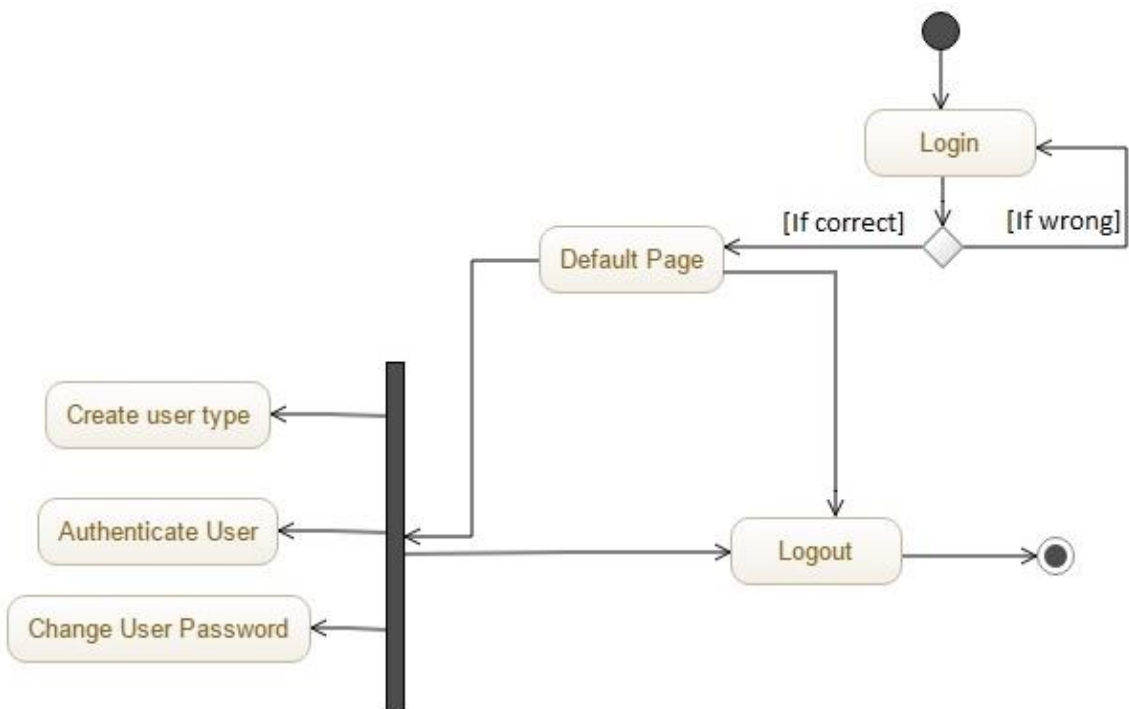


Figure 3.6 - Activity Diagram for Admin Officer

3.4 Software Requirements:

For installing the system, we mainly required the following software, installed on the hosting system.

3.4.1 Web Server:

- IIS Express

3.4.2 SQL Server:

- SQL Server Management Studio 2012

3.4.3 Database Language:

- MSSQL

3.4.4 Server Side Language:

- ASP.NET,C#

3.5 Application Implementation:

To implement this web application the tools are used not open source. Microsoft Dreamspark provides **Visual Studio 2012** and **SQL Server Management Studio 2013 Express** for free to students of East West University. So that there are no costing involves developing this software as a student of East West University. For designing the project HTML, CSS are used which is open source. IIS Express web server is used s web server. ASP.NET is used for application coding. ASP.NET is open source. SQL Server Management Studio 2012 is used as database server.

3.5.1 HTML:

The short form oh HTML is **Hyper Text Markup Language** and it is a language that are used to create electronic documents, especially pages on the World Wide Web (WWW) that contain connections called hyperlinks to other pages. Every web page you see on the Internet, including this one contains HTML code that helps format and show text and images in an easy to read format. Without HTML a browser would not know how to format a page and would only display plain text with no formatting that contained on links.[1]

3.5.2 ASP.NET:

ASP.NET is an open source server-side Web application framework designed for Web development to produce dynamic Web pages. It was developed by Microsoft to allow programmers to build dynamic web sites, web applications and web services.[2]

3.5.3 C# Programming Language:

C# (pronounced "c-sharp") is an object-oriented programming language from Microsoft that aims to combine the computing power of C++ with the programing ease of visual Basic. C# is based on C++ and contains features similar to those of Java. C# id designed to work with Microsoft's . Net platform.[3]

3.5.4 .NET Framework:

A programming infrastructure created by Microsoft for building, deploying and running applications and services that use .NET technologies, such as desktop applications and web services.

The .NET Framework contains three major parts:

- The Common Language Runtime
- The Framework Class Library
- ASP.NET

3.5.5 CSS:

Cascading Style Sheets (CSS) is a style sheet language used for describing the presentation of a document written in a markup language.[4]

3.5.6 IIS Express Web Server:

IIS Express is a lightweight, self-contained version of IIS optimized for developers. IIS Express makes it easy to use the most current version of IIS to develop and test websites.

3.5.7 SQL Server Management Studio 2012:

Microsoft SQL Server Management Studio Express (SSMSE) is a free, easy-to-use graphical management tool for managing SQL Server 2012 Express Edition and SQL Server 2012 Express edition with Advanced Services. The tool includes both script editors and graphical tools which work with objects and features of the server.

3.6 Database Implementation:

After getting the requirements of a logical design and physical design of a database, we can move to the implementation stage. In general, implementing our physical design involves defining the various objects and enforcing the constraints on the data relationships.

3.6.1 User type table (tbl_user_type):

	Column Name	Data Type	Allow Nulls
	u_type_id	int	<input type="checkbox"/>
	u_type	varchar(50)	<input type="checkbox"/>

Figure 3.7- User type table

This table contains the user types of each user. The columns are given below-

- u_type_id (Primary Key)
- u_type

3.6.2 User table (tbl_User):


	Column Name	Data Type	Allow Nulls
	u_id	int	<input type="checkbox"/>
	user_id	varchar(50)	<input type="checkbox"/>
	user_name	varchar(150)	<input type="checkbox"/>
	user_password	varchar(255)	<input type="checkbox"/>
	full_name	varchar(MAX)	<input checked="" type="checkbox"/>
	ref_id	int	<input checked="" type="checkbox"/>
	ref_type	int	<input checked="" type="checkbox"/>
	user_type	int	<input checked="" type="checkbox"/>
	user_number1	varchar(MAX)	<input checked="" type="checkbox"/>
	user_number2	varchar(50)	<input checked="" type="checkbox"/>
	user_email1	varchar(MAX)	<input checked="" type="checkbox"/>
	user_email2	varchar(50)	<input checked="" type="checkbox"/>
	create_by	int	<input checked="" type="checkbox"/>
	create_date	datetime	<input checked="" type="checkbox"/>
	update_by	int	<input checked="" type="checkbox"/>
	update_date	datetime	<input checked="" type="checkbox"/>
	emp_id	int	<input checked="" type="checkbox"/>

Figure 3.8 - User table

This table contains the user information. The columns are given below-

- u_id (Primary Key)
- user_id
- user_name
- user_password
- full_name
- ref_id (Foreign Key)
- ref_type
- user_type
- user_number1
- user_number2
- user_email1
- user_email2
- create_by
- create_date
- update_by
- update_date
- emp_id (Foreign key)

3.6.3 Authentication menu table (tbl_autMenu):


	Column Name	Data Type	Allow Nulls
	mu_id	bigint	<input type="checkbox"/>
	u_type_id	int	<input type="checkbox"/>
	menu_text	varchar(50)	<input type="checkbox"/>
	visible	int	<input checked="" type="checkbox"/>
	create_date	datetime	<input checked="" type="checkbox"/>
	create_by	int	<input checked="" type="checkbox"/>
	update_date	datetime	<input checked="" type="checkbox"/>
	update_by	int	<input checked="" type="checkbox"/>

Figure 3.9 - Authentication menu table

This table contains the user authentication menus. The columns are given below-

- mu_id (Primary Key)
- u_type_id (Foreign Key)
- menu_text
- visible
- create_date
- create_by
- update_date
- update_by

3.6.4 Employ designation Table(tbl_emp_designation):

	Column Name	Data Type	Allow Nulls
	des_id	int	<input type="checkbox"/>
	designation	varchar(50)	<input checked="" type="checkbox"/>

Figure 3.10 - Employ designation Table

This table contains employ designations.

- des_id (Primary Key)
- designation

3.6.5 Employee table (tbl_employee):

	Column Name	Data Type	Allow Nulls
🔑	emp_id	int	<input type="checkbox"/>
	emp_id_no	varchar(250)	<input checked="" type="checkbox"/>
	emp_type	varchar(15)	<input checked="" type="checkbox"/>
	emp_name	varchar(100)	<input checked="" type="checkbox"/>
	emp_gender	char(1)	<input checked="" type="checkbox"/>
	emp_dob	datetime	<input checked="" type="checkbox"/>
	emp_address	text	<input checked="" type="checkbox"/>
	emp_mobile	varchar(50)	<input checked="" type="checkbox"/>
	emp_phone	varchar(50)	<input checked="" type="checkbox"/>
	emp_email	varchar(50)	<input checked="" type="checkbox"/>
	emp_join_date	datetime	<input checked="" type="checkbox"/>
	emp_des_id	int	<input checked="" type="checkbox"/>
	basic	money	<input checked="" type="checkbox"/>
	allowance	money	<input checked="" type="checkbox"/>
	status	bit	<input checked="" type="checkbox"/>
	dep_status	int	<input checked="" type="checkbox"/>
	qualification_details	text	<input checked="" type="checkbox"/>
	create_by	int	<input checked="" type="checkbox"/>
	create_date	datetime	<input checked="" type="checkbox"/>
	update_by	int	<input checked="" type="checkbox"/>
	update_date	datetime	<input checked="" type="checkbox"/>

Figure 3.11- Employee table

This table contains employee information. The columns are given below-

- emp_id (Primary Key)
- emp_id_no
- emp_type
- emp_name
- emp_gender
- emp_dob
- emp_address
- emp_mobile
- emp_phone
- emp_email
- emp_join_date
- emp_des_id (Foreign Key)

- basic
- allowance
- status
- dep_status
- qualification_details
- create_by
- create_date
- update_by
- update_date

3.6.6 Income type table (tbl_income_type):


	Column Name	Data Type	Allow Nulls
	income_type_id	int	<input type="checkbox"/>
	income_type	varchar(50)	<input checked="" type="checkbox"/>

Figure 3.12 - Income type table

This table contains income type information. The columns are given below-

- income_type_id (Primary Key)
- income_type

3.6.7 Account table(tbl_account):


	Column Name	Data Type	Allow Nulls
	account_id	int	<input type="checkbox"/>
	account_name	varchar(50)	<input checked="" type="checkbox"/>
	balance	money	<input checked="" type="checkbox"/>

Figure 3.13 - Account table

This table contains list of account. The columns are given below-

- account_id (Primary Key)
- account_name
- balance

3.6.8 Account log table(tbl_acc_log):

	Column Name	Data Type	Allow Nulls
🔑	acc_log_id	bigint	<input type="checkbox"/>
	account_id	varchar(50)	<input checked="" type="checkbox"/>
	ref_type	varchar(50)	<input checked="" type="checkbox"/>
	ref_id	bigint	<input checked="" type="checkbox"/>
	reference	varchar(MAX)	<input checked="" type="checkbox"/>
	agent_id	bigint	<input checked="" type="checkbox"/>
	pay_to_from	varchar(MAX)	<input checked="" type="checkbox"/>
	pay_details	varchar(MAX)	<input checked="" type="checkbox"/>
	income	money	<input checked="" type="checkbox"/>
	expense	money	<input checked="" type="checkbox"/>
	date	datetime	<input checked="" type="checkbox"/>
	pre_balance	money	<input checked="" type="checkbox"/>
	curr_balance	money	<input checked="" type="checkbox"/>
	create_by	bigint	<input checked="" type="checkbox"/>
	create_date	datetime	<input checked="" type="checkbox"/>

Figure 3.14 - Account log table

This table contains transition details in each account. The columns are given below-

- acc_log_id (Primary Key)
- account_id (Foreign Key)
- ref_type
- ref_id
- reference
- agent_id (Foreign Key)
- pay_to_from
- pay_details
- income
- expense
- date
- pre_balance
- curr_balance
- create_by
- create_date

3.6.9 Passenger agent table(tbl_passenger_agent):


	Column Name	Data Type	Allow Nulls
	passenger_agent_id	bigint	<input type="checkbox"/>
	passenger_agent_name	varchar(MAX)	<input checked="" type="checkbox"/>
	passenger_agent_nation...	varchar(50)	<input checked="" type="checkbox"/>
	gender_id	int	<input checked="" type="checkbox"/>
	passenger_agent_father_...	varchar(MAX)	<input checked="" type="checkbox"/>
	passenger_agent_mothe...	varchar(MAX)	<input checked="" type="checkbox"/>
	passenger_agent_village...	varchar(50)	<input checked="" type="checkbox"/>
	passenger_agent_road_b...	varchar(50)	<input checked="" type="checkbox"/>
	dist_id	bigint	<input checked="" type="checkbox"/>
	passenger_agent_contac...	varchar(50)	<input checked="" type="checkbox"/>
	passenger_agent_comm...	varchar(50)	<input checked="" type="checkbox"/>
	ps	varchar(MAX)	<input checked="" type="checkbox"/>
	po	varchar(MAX)	<input checked="" type="checkbox"/>

Figure 3.15 - Passenger agent table

This table contains passenger agent information. The columns are given below-

- passenger_agent_id (Primary Key)
- passenger_agent_name
- passenger_agent_national_id (Foreign Key)
- gender_id (Foreign Key)
- passenger_agent_father_name
- passenger_agent_mother_name
- passenger_agent_village_house
- passenger_agent_road_block_sector
- dist_id (Foreign Key)
- passenger_agent_contact_no
- passenger_agent_comment
- ps
- po

3.6.10 Service agent table (tbl_service_agent):

	Column Name	Data Type	Allow Nulls
🔑	service_agent_id	bigint	<input type="checkbox"/>
	service_agent_name	varchar(50)	<input checked="" type="checkbox"/>
	service_agent_national_id	varchar(50)	<input checked="" type="checkbox"/>
	gender_id	int	<input checked="" type="checkbox"/>
	service_agent_father_na...	varchar(50)	<input checked="" type="checkbox"/>
	service_agent_mother_n...	varchar(50)	<input checked="" type="checkbox"/>
	service_agent_village_ho...	varchar(50)	<input checked="" type="checkbox"/>
	service_agent_road_bloc...	varchar(50)	<input checked="" type="checkbox"/>
	dist_id	bigint	<input checked="" type="checkbox"/>
	service_agent_contact_no	varchar(50)	<input checked="" type="checkbox"/>
	service_agent_comment	varchar(50)	<input checked="" type="checkbox"/>
	ps	varchar(MAX)	<input checked="" type="checkbox"/>
	po	varchar(MAX)	<input checked="" type="checkbox"/>

Figure 3.16 - Service agent table

This table contains service agent information. The columns are given below-

- service_agent_id (Primary Key)
- service_agent_name
- service_agent_national_id (Foreign Key)
- gender_id (Foreign Key)
- service_agent_father_name
- service_agent_mother_name
- service_agent_village_house
- service_agent_road_block_sector
- dist_id (Foreign Key)
- service_agent_contact_no
- service_agent_comment
- ps
- po

3.6.11 Country table (tbl_country):

	Column Name	Data Type	Allow Nulls
	country_id	int	<input type="checkbox"/>
	country_name	varchar(50)	<input checked="" type="checkbox"/>

Figure 3.17 - Country table

This table contains country list. The columns are given below-

- country_id (Primary Key)
- country_name

3.6.12 District table (tbl_dist):


	Column Name	Data Type	Allow Nulls
	dist_id	bigint	<input type="checkbox"/>
	district_name	varchar(50)	<input checked="" type="checkbox"/>

Figure 3.18 - District table

This table contains the district list. The columns are given below-

- dist_id (Primary Key)
- district_name

3.6.13 Passport type table (tbl_passport_type):


	Column Name	Data Type	Allow Nulls
	pp_type_id	int	<input type="checkbox"/>
	pp_type_name	varchar(50)	<input checked="" type="checkbox"/>

Figure 3.19- Passport type table

This table contains the passport types list. The columns are given below-

- pp_type_id (Primary Key)
- pp_type_name

3.6.14 Service type table (tbl_service_type):


	Column Name	Data Type	Allow Nulls
	service_type_id	int	<input type="checkbox"/>
	service_type	varchar(50)	<input checked="" type="checkbox"/>

Figure 3.20 - Service type table

This table contains the service types list. The columns are given below-

- service_type_id (Primary Key)
- service_type

3.6.15 Status table (tbl_status):


	Column Name	Data Type	Allow Nulls
	status_id	int	<input type="checkbox"/>
	status	varchar(50)	<input checked="" type="checkbox"/>

Figure 3.21 - Status table

This table contains the status list. The columns are given below-

- status_id (Primary Key)
- status

3.6.16 Gender Table (tbl_gender):

	Column Name	Data Type	Allow Nulls
	gender_id	int	<input type="checkbox"/>
	type	varchar(50)	<input checked="" type="checkbox"/>

Figure 3.22 - Gender Table

This table contains the gender list. The columns are given below-

- gender_id (Primary Key)
- type

3.6.17 Service account log table (tbl_service_acc_log):


	Column Name	Data Type	Allow Nulls
	service_acc_log_id	bigint	<input type="checkbox"/>
	account_id	varchar(50)	<input checked="" type="checkbox"/>
	ref_type	varchar(50)	<input checked="" type="checkbox"/>
	ref_id	bigint	<input checked="" type="checkbox"/>
	reference	varchar(MAX)	<input checked="" type="checkbox"/>
	service_agent_id	bigint	<input checked="" type="checkbox"/>
	pay_to_from	varchar(MAX)	<input checked="" type="checkbox"/>
	pay_details	varchar(MAX)	<input checked="" type="checkbox"/>
	income	money	<input checked="" type="checkbox"/>
	expense	money	<input checked="" type="checkbox"/>
	date	datetime	<input checked="" type="checkbox"/>
	pre_balance	money	<input checked="" type="checkbox"/>
	curr_balance	money	<input checked="" type="checkbox"/>
	create_by	bigint	<input checked="" type="checkbox"/>
	create_date	datetime	<input checked="" type="checkbox"/>

Figure 3.23- Service account log table

This table contains the service account log information under each service agents. The columns are given below-

- service_acc_log_id (Primary Key)
- account_id
- ref_type
- ref_id
- reference
- service_agent_id
- pay_to_from
- pay_details
- income
- expense
- date
- pre_balance
- curr_balance
- create_by
- create_date

3.6.18 Passenger details table (tbl_passenger_details):

	Column Name	Data Type	Allow Nulls
🔑	passenger_id	bigint	<input type="checkbox"/>
	passenger_name	varchar(MAX)	<input checked="" type="checkbox"/>
	passenger_national_id	varchar(MAX)	<input checked="" type="checkbox"/>
	gender_id	int	<input checked="" type="checkbox"/>
	passenger_date_of_birth	datetime	<input checked="" type="checkbox"/>
	passenger_father_name	varchar(MAX)	<input checked="" type="checkbox"/>
	passenger_mother_name	varchar(MAX)	<input checked="" type="checkbox"/>
	passenger_spouse_name	varchar(50)	<input checked="" type="checkbox"/>
	passenger_village_house	varchar(50)	<input checked="" type="checkbox"/>
	passenger_road_block_s...	varchar(50)	<input checked="" type="checkbox"/>
	dist_id	bigint	<input checked="" type="checkbox"/>
	passenger_contact_no	varchar(50)	<input checked="" type="checkbox"/>
	passenger_comment	varchar(MAX)	<input checked="" type="checkbox"/>
	passenger_agent_id	bigint	<input checked="" type="checkbox"/>
	ps	varchar(MAX)	<input checked="" type="checkbox"/>
	po	varchar(MAX)	<input checked="" type="checkbox"/>
	country_id	int	<input checked="" type="checkbox"/>
	create_date	datetime	<input checked="" type="checkbox"/>
	create_by	int	<input checked="" type="checkbox"/>

Figure 3.24 - Passenger details table

This table contains passenger details. The columns are given below-

- passenger_id (Primary Key)
- passenger_name
- passenger_national_id
- gender_id (Foreign Key)
- passenger_date_of_birth
- passenger_father_name
- passenger_mother_name
- passenger_spouse_name
- passenger_village_house
- passenger_road_block_sector
- dist_id (Foreign Key)
- passenger_contact_no
- passenger_comment
- passenger_agent_id (Foreign Key)

- ps
- po
- country_id (Foreign Key)
- create_date
- create_by

3.6.19 Passenger service log table (tbl_pass_service_log):


	Column Name	Data Type	Allow Nulls
	pass_service_log_id	bigint	<input type="checkbox"/>
	passenger_id	bigint	<input checked="" type="checkbox"/>
	service_agent_id	bigint	<input checked="" type="checkbox"/>
	ref_type	varchar(50)	<input checked="" type="checkbox"/>
	ref_id	bigint	<input checked="" type="checkbox"/>
	create_date	datetime	<input checked="" type="checkbox"/>

Figure 3.25 - Passenger service log table

This table contains the passenger service log list . The columns are given below-

- pass_service_log_id (Primary Key)
- passenger_id (Foreign Key)
- service_agent_id (Foreign Key)
- ref_type
- ref_id (Foreign Key)
- create_date

3.6.20 Passenger passport details table (tbl_passenger_pp_details):


	Column Name	Data Type	Allow Nulls
	passenger_pp_details_id	bigint	<input type="checkbox"/>
	passenger_id	bigint	<input checked="" type="checkbox"/>
	passenger_pp_no	varchar(50)	<input checked="" type="checkbox"/>
	passenger_pre_pp_no	varchar(50)	<input checked="" type="checkbox"/>
	passenger_pp_issu_date	datetime	<input checked="" type="checkbox"/>
	passenger_pp_exp_date	datetime	<input checked="" type="checkbox"/>
	pp_type_id	int	<input checked="" type="checkbox"/>
	dist_id	bigint	<input checked="" type="checkbox"/>

Figure 3.26- Passenger passport details table

This table contains passport details of each passenger . The columns are given below-

- passenger_pp_details_id (Primary Key)
- passenger_id (Foreign Key)
- passenger_pp_no
- passenger_pre_pp_no
- passenger_pp_issu_date
- passenger_pp_exp_date
- pp_type_id
- dist_id (Foreign Key)

3.6.21 Training details table (tbl_training_details):


	Column Name	Data Type	Allow Nulls
	training_details_id	bigint	<input type="checkbox"/>
	service_agent_id	bigint	<input checked="" type="checkbox"/>
	passenger_id	bigint	<input checked="" type="checkbox"/>
	training_center_name	varchar(MAX)	<input checked="" type="checkbox"/>
	training_admission_date	datetime	<input checked="" type="checkbox"/>
	training_exam_date	datetime	<input checked="" type="checkbox"/>
	training_certificate_no	varchar(50)	<input checked="" type="checkbox"/>
	training_certificate_date	datetime	<input checked="" type="checkbox"/>
	status_id	int	<input checked="" type="checkbox"/>
	charge_amount	varchar(50)	<input checked="" type="checkbox"/>
	comment	varchar(50)	<input checked="" type="checkbox"/>

Figure 3.27- Training details table

This table contains the training details of each passenger . The columns are given below-

- training_details_id (Primary Key)
- service_agent_id (Foreign Key)

- passenger_id (Foreign Key)
- training_center_name
- training_admission_date
- training_exam_date
- training_certificate_no
- training_certificate_date
- status_id (Foreign Key)
- charge_amount
- comment

3.6.22 Medical details table (tbl_medical_details):

	Column Name	Data Type	Allow Nulls
🔑	medical_details_id	bigint	<input type="checkbox"/>
	passenger_id	bigint	<input checked="" type="checkbox"/>
	service_agent_id	bigint	<input checked="" type="checkbox"/>
	medical_name	varchar(MAX)	<input checked="" type="checkbox"/>
	medical_sn	varchar(50)	<input checked="" type="checkbox"/>
	medical_exam_date	datetime	<input checked="" type="checkbox"/>
	medical_reporting_date	datetime	<input checked="" type="checkbox"/>
	status_id	int	<input checked="" type="checkbox"/>
	comment	varchar(50)	<input checked="" type="checkbox"/>
	charge_amount	varchar(50)	<input checked="" type="checkbox"/>

Figure 3.28 - Medical details table

This table contains the medical details of each passenger. The columns are given below-

- medical_details_id (Primary Key)
- passenger_id (Foreign Key)
- service_agent_id (Foreign Key)
- medical_name
- medical_sn
- medical_exam_date
- medical_reporting_date
- status_id (Foreign Key)
- comment
- charge_amount

3.6.23 Visa details table (tbl_visa_details):

	Column Name	Data Type	Allow Nulls
🔑	visa_id	bigint	<input type="checkbox"/>
	passenger_id	bigint	<input checked="" type="checkbox"/>
	service_agent_id	bigint	<input checked="" type="checkbox"/>
	visa_no	varchar(50)	<input checked="" type="checkbox"/>
	visa_application_date	datetime	<input checked="" type="checkbox"/>
	visa_iss_date	datetime	<input checked="" type="checkbox"/>
	visa_exp_date	datetime	<input checked="" type="checkbox"/>
	copil_name	varchar(50)	<input checked="" type="checkbox"/>
	group_name	varchar(50)	<input checked="" type="checkbox"/>
	country_id	int	<input checked="" type="checkbox"/>
	status_id	int	<input checked="" type="checkbox"/>
	comment	varchar(50)	<input checked="" type="checkbox"/>
	charge_amount	varchar(50)	<input checked="" type="checkbox"/>

Figure 3.29 - Visa details table

This table contains the visa details of each passenger. The columns are given below-

- visa_id (Primary Key)
- passenger_id (Foreign Key)
- service_agent_id (Foreign Key)
- visa_no
- visa_application_date
- visa_iss_date
- visa_exp_date
- copil_name
- group_name
- country_id (Foreign Key)
- status_id (Foreign Key)
- comment
- charge_amount

3.6.24 Man power details table (tbl_man_power_details):

	Column Name	Data Type	Allow Nulls
🔑	man_power_details_id	bigint	<input type="checkbox"/>
	passenger_id	bigint	<input checked="" type="checkbox"/>
	service_agent_id	bigint	<input checked="" type="checkbox"/>
	finger_number	varchar(50)	<input checked="" type="checkbox"/>
	finger_date	datetime	<input checked="" type="checkbox"/>
	man_power_clearing_no	varchar(50)	<input checked="" type="checkbox"/>
	man_power_clearing_date	datetime	<input checked="" type="checkbox"/>
	mosaned	varchar(50)	<input checked="" type="checkbox"/>
	wokala	varchar(50)	<input checked="" type="checkbox"/>
	comment	varchar(50)	<input checked="" type="checkbox"/>
	charge_amount	varchar(50)	<input checked="" type="checkbox"/>

Figure 3.30 - Man power details table

This table contains the man power details of each passenger. The columns are given below-

- man_power_details_id (Primary Key)
- passenger_id (Foreign Key)
- service_agent_id (Foreign Key)
- finger_number
- finger_date
- man_power_clearing_no
- man_power_clearing_date
- mosaned
- wokala
- comment
- charge_amount

3.6.25 Flight table (tbl_flight):

	Column Name	Data Type	Allow Nulls
🔑	flight_id	bigint	<input type="checkbox"/>
	service_agent_id	bigint	<input checked="" type="checkbox"/>
	passenger_id	bigint	<input checked="" type="checkbox"/>
	flight_date	datetime	<input checked="" type="checkbox"/>
	carrier_airway	varchar(50)	<input checked="" type="checkbox"/>
	ticket_no	varchar(50)	<input checked="" type="checkbox"/>
	ticket_issu_date	datetime	<input checked="" type="checkbox"/>
	country_id	int	<input checked="" type="checkbox"/>
	country_area	varchar(50)	<input checked="" type="checkbox"/>
	comment	varchar(50)	<input checked="" type="checkbox"/>
	charge_amount	money	<input checked="" type="checkbox"/>

Figure 3.31 - Flight table

This table contains flight details of each passenger. The columns are given below-

- flight_id (Primary Key)
- service_agent_id
- passenger_id (Foreign Key)
- flight_date
- carrier_airway
- ticket_no
- ticket_issu_date
- country_id (Foreign Key)
- country_area
- comment
- charge_amount

3.6.26 Invoice table (tbl_invoice):


	Column Name	Data Type	Allow Nulls
	invoice_id	bigint	<input type="checkbox"/>
	invoice_no	varchar(50)	<input checked="" type="checkbox"/>
	invoice_type	int	<input checked="" type="checkbox"/>
	invoice_date	datetime	<input checked="" type="checkbox"/>

Figure 3.32 - Invoice table

This table contains invoice list with respect to payment type (payment or receive). The columns are given below-

- invoice_id (Primary Key)
- invoice_no
- invoice_type
- invoice_date

3.6.27 Passenger agent contract table (tbl_passenger_agent_contract):


	Column Name	Data Type	Allow Nulls
	pass_agent_contract_id	bigint	<input type="checkbox"/>
	passenger_id	bigint	<input checked="" type="checkbox"/>
	agent_id	bigint	<input checked="" type="checkbox"/>
	country_id	int	<input checked="" type="checkbox"/>
	pass_contract_amount	money	<input checked="" type="checkbox"/>
	agent_commission_percent	int	<input checked="" type="checkbox"/>
	remarks	varchar(50)	<input checked="" type="checkbox"/>
	contract_date	datetime	<input checked="" type="checkbox"/>
	contract_by	varchar(50)	<input checked="" type="checkbox"/>
	passenger_invoice_no	varchar(50)	<input checked="" type="checkbox"/>
	details	varchar(50)	<input checked="" type="checkbox"/>

Figure 3.33 - Passenger agent contract table

This table contains passenger agent contract list. The columns are given below-

- pass_agent_contract_id (Primary Key)
- passenger_id (Foreign Key)
- agent_id (Foreign Key)
- country_id (Foreign Key)

- pass_contract_amount
- agent_commission_percent
- remarks
- contract_date
- contract_by
- passenger_invoice_no
- details

3.6.28 Passenger agent payment table (tbl_passenger_agent_payment):

	Column Name	Data Type	Allow Nulls
🔑	pass_agent_pay_id	bigint	<input type="checkbox"/>
	passenger_invoice_no	varchar(50)	<input checked="" type="checkbox"/>
	total_amount_to_pay	money	<input checked="" type="checkbox"/>
	due_amount	money	<input checked="" type="checkbox"/>
	pay_amount	money	<input checked="" type="checkbox"/>
	invoice_date	datetime	<input checked="" type="checkbox"/>

Figure 3.34 - Passenger agent payment table

This table contains passenger agent payment list. The columns are given below-

- pass_agent_pay_id (Primary Key)
- passenger_invoice_no
- total_amount_to_pay
- due_amount
- pay_amount
- invoice_date

3.6.29 Passenger agent payment details (tbl_passenger_agent_pay_details):


	Column Name	Data Type	Allow Nulls
	pass_agent_pay_details_id	bigint	<input type="checkbox"/>
	pass_agent_pay_id	bigint	<input checked="" type="checkbox"/>
	pay_amount	money	<input checked="" type="checkbox"/>
	pay_date	datetime	<input checked="" type="checkbox"/>
	pay_type	varchar(50)	<input checked="" type="checkbox"/>
	bank_name	varchar(50)	<input checked="" type="checkbox"/>
	cheque_no	varchar(50)	<input checked="" type="checkbox"/>
	pay_details	varchar(MAX)	<input checked="" type="checkbox"/>
	pay_serial	varchar(50)	<input checked="" type="checkbox"/>

Figure 3.35- Passenger agent payment details table

This table contains passenger agent payment details. The columns are given below-

- pass_agent_pay_details_id (Primary Key)
- pass_agent_pay_id (Foreign Key)
- pay_amount
- pay_date
- pay_type
- bank_name
- cheque_no
- pay_details
- pay_serial

3.6.30 Agent commission payment table (tbl_agent_comission_payment):


	Column Name	Data Type	Allow Nulls
	agent_comission_pay_id	bigint	<input type="checkbox"/>
	passenger_invoice_no	varchar(50)	<input checked="" type="checkbox"/>
	total_amount_to_pay	money	<input checked="" type="checkbox"/>
	due_amount	money	<input checked="" type="checkbox"/>
	pay_amount	money	<input checked="" type="checkbox"/>
	invoice_date	datetime	<input checked="" type="checkbox"/>

Figure 3.36 - Agent commission payment table

This table contains agent commission payment table . The columns are given below-

- agent_comission_pay_id (Primary Key)
- passenger_invoice_no
- total_amount_to_pay
- due_amount
- pay_amount
- invoice_date

3.6.31 Agent commission payment details table (tbl_agent_comission_payment_details):


	Column Name	Data Type	Allow Nulls
	agent_comission_pay_de...	bigint	<input type="checkbox"/>
	agent_comission_pay_id	bigint	<input checked="" type="checkbox"/>
	pay_amount	money	<input checked="" type="checkbox"/>
	pay_date	datetime	<input checked="" type="checkbox"/>
	pay_type	varchar(50)	<input checked="" type="checkbox"/>
	bank_name	varchar(50)	<input checked="" type="checkbox"/>
	cheque_no	varchar(50)	<input checked="" type="checkbox"/>
	pay_details	varchar(MAX)	<input checked="" type="checkbox"/>
	pay_serial	varchar(50)	<input checked="" type="checkbox"/>

Figure 3.37- Agent commission payment details table

This table contains agent commission payment details. The columns are given below-

- agent_comission_pay_details_id (Primary Key)
- agent_comission_pay_id (Foreign Key)
- pay_amount

- pay_date
- pay_type
- bank_name
- cheque_no
- pay_details
- pay_serial

3.6.32 Service contract table (tbl_service_contract):


	Column Name	Data Type	Allow Nulls
	service_payment_id	bigint	<input type="checkbox"/>
	service_invoice_no	varchar(50)	<input checked="" type="checkbox"/>
	agent_id	bigint	<input checked="" type="checkbox"/>
	passenger_id	bigint	<input checked="" type="checkbox"/>
	service_type	varchar(50)	<input checked="" type="checkbox"/>
	payment_to	varchar(50)	<input checked="" type="checkbox"/>
	pay_type	varchar(50)	<input checked="" type="checkbox"/>
	bank_name	varchar(50)	<input checked="" type="checkbox"/>
	cheque_no	varchar(50)	<input checked="" type="checkbox"/>
	pay_amount	money	<input checked="" type="checkbox"/>
	pay_details	varchar(MAX)	<input checked="" type="checkbox"/>
	create_date	datetime	<input checked="" type="checkbox"/>
	paydate	datetime	<input checked="" type="checkbox"/>
	service_agent_id	bigint	<input checked="" type="checkbox"/>

Figure 3.38- Service contract table

This table contains service contract information. The columns are given below-

- service_payment_id (Primary Key)
- service_invoice_no
- agent_id (Foreign Key)
- passenger_id (Foreign Key)
- service_type
- payment_to
- pay_type
- bank_name
- cheque_no
- pay_amount
- pay_details
- create_date
- paydate
- service_agent_id (Foreign Key)

3.6.33 Office expense table (tbl_office_exp):

	Column Name	Data Type	Allow Nulls
🔑	office_exp_id	bigint	<input type="checkbox"/>
	invoice_no	varchar(50)	<input checked="" type="checkbox"/>
	payment_to	varchar(MAX)	<input checked="" type="checkbox"/>
	pay_type	varchar(50)	<input checked="" type="checkbox"/>
	bank_name	varchar(50)	<input checked="" type="checkbox"/>
	cheque_no	varchar(50)	<input checked="" type="checkbox"/>
	pay_amount	money	<input checked="" type="checkbox"/>
	pay_details	varchar(MAX)	<input checked="" type="checkbox"/>
	create_date	datetime	<input checked="" type="checkbox"/>
	exp_type_id	varchar(50)	<input checked="" type="checkbox"/>
	passenger_agent_id	bigint	<input checked="" type="checkbox"/>
	paydate	datetime	<input checked="" type="checkbox"/>

Figure 3.39- Office expense table

This table contains the details of office expenses. The columns are given below-

- office_exp_id (Primary Key)
- invoice_no
- payment_to
- pay_type
- bank_name
- cheque_no
- pay_amount
- pay_details
- create_date
- exp_type_id (Foreign Key)
- passenger_agent_id (Foreign Key)
- paydate

3.6.34 Office income table (tbl_office_income):


	Column Name	Data Type	Allow Nulls
	office_income_id	bigint	<input type="checkbox"/>
	invoice_no	varchar(50)	<input checked="" type="checkbox"/>
	payment_to	varchar(MAX)	<input checked="" type="checkbox"/>
	pay_type	varchar(50)	<input checked="" type="checkbox"/>
	bank_name	varchar(50)	<input checked="" type="checkbox"/>
	cheque_no	varchar(50)	<input checked="" type="checkbox"/>
	pay_amount	money	<input checked="" type="checkbox"/>
	pay_details	varchar(MAX)	<input checked="" type="checkbox"/>
	create_date	datetime	<input checked="" type="checkbox"/>
	income_type_id	int	<input checked="" type="checkbox"/>
	passenger_agent_id	bigint	<input checked="" type="checkbox"/>
	paydate	datetime	<input checked="" type="checkbox"/>

Figure 3.40 - Office income table

This table contains the details of office income. The columns are given below-

- office_income_id (Primary Key)
- invoice_no
- payment_to
- pay_type
- bank_name
- cheque_no
- pay_amount
- pay_details
- create_date
- income_type_id (Foreign Key)
- passenger_agent_id (Foreign Key)
- paydate

Chapter -4

(Design Specification)

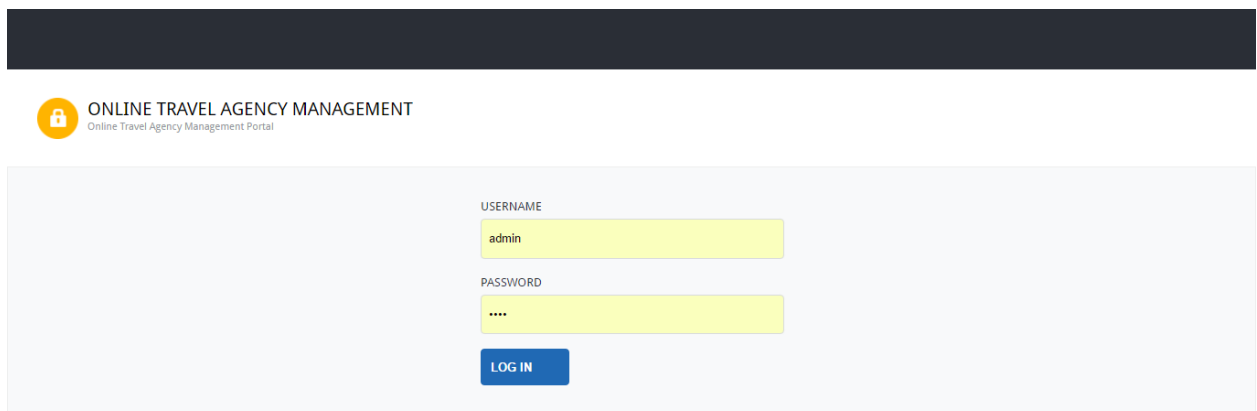
A design specification is a detailed document providing information about the characteristics of a project to set criteria the developers will need to meet. It is used where a structure or product has to be specially made to meet a unique need.[5]

4.1 Interface

The critical aspect of systems design is to create the user interface to the new system. Input and output design focuses on the content of that interface- the specification fields that should be included in screens and reports that are viewed by the users. Once the content is determined, the format for human-computer interaction (HCI) is determined. The user interface (UI) is the way the system talks to the users, using screens/forms, reports and error messages. During interface design developers identify procedures for each system activity and the required inputs for those activities. These required inputs become screens or forms. User involvement is critical during these design activities.

4.2. User Interface

Login



ONLINE TRAVEL AGENCY MANAGEMENT
Online Travel Agency Management Portal

USERNAME
admin

PASSWORD
....

LOG IN

Figure 4.1- Login

This is the login page user have to insert his username and password to enter into the system. If the user entered proper username and password then the user can enter into the system and see the landing page like below.

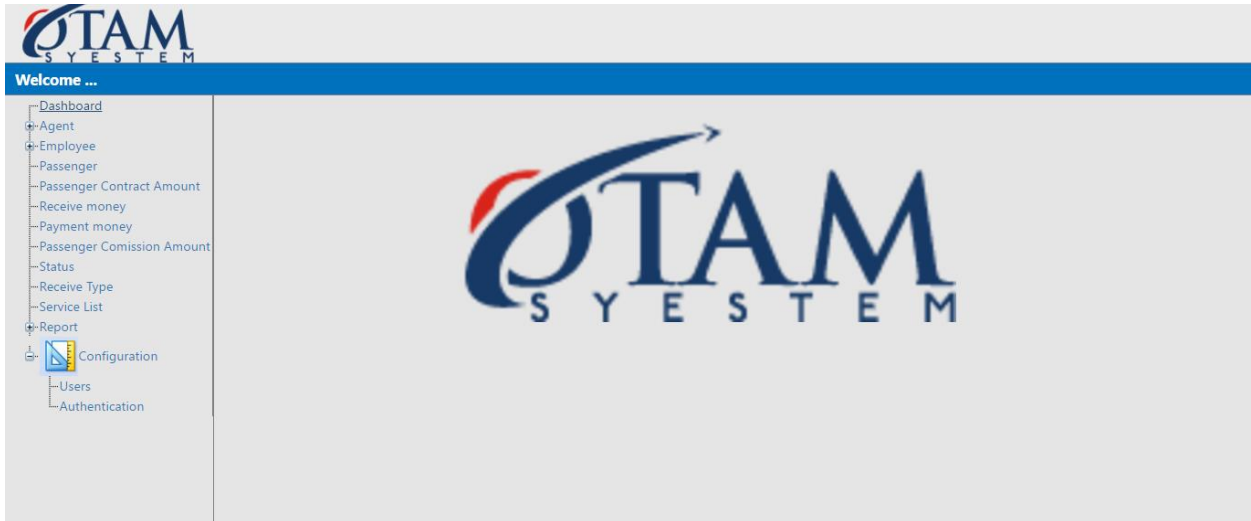


Figure 4.2 – Default page

4.2.1. Passenger Agent

Passenger Agent Entry

Name:*	<input type="text" value="All"/> <input type="button" value="Search"/>	Road/Block/Sector:	<input type="text" value="Road/Block/Sector"/>
National ID No:	<input type="text"/>	District*	<input type="text" value="Select"/>
Gender:*	<input type="text" value="Select"/>	Police Station:*	<input type="text"/>
Father Name:*	<input type="text"/>	Post Office:*	<input type="text"/>
Mother Name:*	<input type="text"/>	Contact No:	<input type="text"/>
Village/House:*	<input type="text" value="Village/House"/>	Emergency person name and contact no:	<input type="text"/>

Passenger Agent List

Agent	National Id	Village	District	Road,block,sector		
Simul	93046382752378156	banasree	Dhaka	1/f/4	Edit Info	Show details

Figure 4.3- Passenger agent entry

In this page user can search passenger agent by agent name and can insert agent by filling up Name, National id number, Gender, Father’s name, Mother’s name, Village/House, Road/Block/Sector, District, Police Station, Post Office, Contact no, Emergency person name and contract no. and clicking save button. User also can show details information by clicking show details button and can edit information by clicking edit information button.

4.2.2. Service Agent

Passenger Service Agent Entry

Name:*	<input type="text" value="All"/>	Road/Block/Sector:	<input type="text" value="Road/Block/Sector"/>
	<input type="button" value="Search"/>		
National ID No:	<input type="text"/>	District*	<input type="text" value="Select"/>
Gender:	<input type="text" value="Select"/>	Police Station:*	<input type="text"/>
Father Name:*	<input type="text"/>	Post Office:*	<input type="text"/>
Mother Name:*	<input type="text"/>	Contact No:	<input type="text"/>
Village/House:*	<input type="text" value="Village/House"/>	Emergency person name and contact no:	<input type="text"/>

Passenger Agent List

Name	National ID	Contact No	District	Village House	Road Block Sector	Action
hasan	12345678975468764	0123456789	Barishal	village/house	road/block/sector	Edit Info Show details

Figure 4.4 –Service agent entry

In this page user can search passenger agent by agent name and can insert agent by filling up Name, National id number, Gender, Father’s name, Mother’s name, Village/House, Road/Block/Sector, District, Police Station, Post Office, Contact no, Emergency person name and contract no. and clicking save button. User also can show details information by clicking show details button and can edit information by clicking edit information button.

4.2.3. Designation

Insert Designation

Designation Name ::

List of Designations

Id	Designation	
1	Admin	

Figure 4.5 - Designation

In this page user can inset designation and can edit or delete it. It should be noted that if an employee under that designation is inserted then the system do not allow deleting that specific designation.

4.2.4. Employee Info

Insert Employee	
Employee Id	<input type="text"/>
Employee Name	<input type="text"/>
Designation	Admin ▾
Basic	<input type="text"/>
Allowance	<input type="text"/>
Status	<input type="checkbox"/>
Mobile	<input type="text"/>
Phone	<input type="text"/>
Email	<input type="text"/>
Gender	Male ▾
DOB	<input type="text"/>
Address	<input type="text"/>
Join Date	<input type="text"/>
Insert Cancel	



List of Employees				
Search Employee :: <input type="text"/>				<input type="button" value="Search"/>
ID	Employee Id	Name	Designation	
1	E0001	Morshed	Admin	Details  

Figure 4.6 - Employee

In this page user can insert employee information with respect to their designation, gender, name, phone no. etc. also can change and delete it. It should be noted that if the employee is a user, the system do not allow delete option.

4.2.5. Passenger

Passenger Details

Search by Job Id or Passenger Name:

Passenger Agent :*	<input type="text" value="Select"/>	Target Country:*	<input type="text" value="Select"/>
Passenger Name:*	<input style="width: 100%;" type="text"/>	Village/House:*	<input style="width: 100%;" type="text" value="Village/House"/>
National ID No:	<input style="width: 100%;" type="text"/>	Road/Block/Sector:	<input style="width: 100%;" type="text" value="Road/Block/Sector"/>
Gender:*	<input type="text" value="Select"/>	Passenger District:*	<input type="text" value="Select"/>
Date of Birth:*	<input style="width: 100%;" type="text" value="mm/dd/yyyy"/>	Passenger Police Station:*	<input style="width: 100%;" type="text"/>
Father Name:*	<input style="width: 100%;" type="text"/>	Passenger Post Office:*	<input style="width: 100%;" type="text"/>
Mother Name:*	<input style="width: 100%;" type="text"/>	Contact No:	<input style="width: 100%;" type="text"/>
Spouse Name:	<input style="width: 100%;" type="text"/>	Emergency person name and contact no:	<input style="width: 100%;" type="text"/>

Passenger Details List

Date	Job ID	Name	Agent Name	Gender	Date of Birth	Target Country	Address	Contact No	Action
06/28/2016	5	dsgdsg	Simul	Male	05/31/2016	Algeria	Bogra, dfshdfs, fghfg	123456789	Edit Info Show details Service
06/28/2016	4	rreiuh	Simul	Female	06/21/2016	Antigua and Barbuda	Barishal, fgj, fghfg	121421351235	Edit Info Show details Service

Figure 4.7 – Passenger

In this page user can insert passenger by filling up Passenger agent, passenger name, National ID Number, Gender, DOB, Father’s name, Mother’s Name, Spouse Name, target Country, Village/House ,Road / block/Sector, District, Police station, Post Office, Contract no, Emergency contact information and clicking save button. User can edit or show details by searching each passenger. User also can go to service by clicking service button. After click service button o new service insertion panel will show up like bellow.

Service Panel

Passenger Name: dsgdsg	Agent Name: Simul
Passenger Job ID: 5	Passenger Contact No: 123456789

Passport
Training
Medical
Visa
Manpower
Flight

Passport Details

Previous Passport(if applicable)	<input style="width: 100%;" type="text" value="if applicable"/>	Passport Issu Date:*	<input style="width: 100%;" type="text" value="6/27/2016"/>
Passport No:*	<input style="width: 100%;" type="text" value="46347tuji"/>	Passport Place of Issu:*	<input style="width: 100%;" type="text" value="Bandarban"/>
Passport Type:*	<input type="text" value="Exclusive"/>	Passport Expire Date:*	<input style="width: 100%;" type="text" value="7/5/2016"/>

Figure 4.8 – Passport Tab

Service Panel Back

Passenger Name: dsgdsg Agent Name: Simul
 Passenger Job ID: 5 Passenger Contact No: 123456789

Passport **Training** **Medical** **Visa** **Manpower** **Flight**

Training Details Entry

Training Agent:

Admission Date:* Certificate Date:*
 Exam Date:* Status:*
 Certificate No:* Comment:

Training Details List

Agent	Certificate No	Status	Action		
hasan	gtujfgj55555	Unfit	Edit Info	Show details	Delete
hasan	6firt67ft76898675	OK	Edit Info	Show details	Delete

Figure 4.9 - Training Tab

Service Panel Back

Passenger Name: dsgdsg Agent Name: Simul
 Passenger Job ID: 5 Passenger Contact No: 123456789

Passport **Training** **Medical** **Visa** **Manpower** **Flight**

Medical Details

Medical Agent: Medical Reporting Date:*
 Medical Serial No.:* Status:*
 Medical Exam Date:* Comment:

Medical Details List

Agent	Reporting Date	Status	Action		
hasan	07/20/2016	Not OK	Edit Info	Show details	Delete
hasan	07/20/2016	Pending	Edit Info	Show details	Delete

Figure 4.10 - Medical Tab

Service Panel Back

Passenger Name: dsgdsg Agent Name: Simul
 Passenger Job ID: 5 Passenger Contact No: 123456789

[Passport](#) [Training](#) [Medical](#) [Visa](#) [Manpower](#) [Flight](#)

Visa Details

Visa Agent:

Visa Number:*
 Visa application Date:*
 Visa Issu Date:*
 Visa Expaire Date:*

Copil Name:*
 Job Title:*
 Country:*
 Comment:

Visa Details List

Agent	Visa No	Issu Date	Expire Date	Action		
hasan	jfgkj7568	07/19/2016	07/23/2016	Edit Info	Show details	Delete
hasan	abcd1234	07/19/2016	08/01/2016	Edit Info	Show details	Delete

Welcome, admin. Your Full Name:Admin User1. User Access level:Admin. Dr

Figure 4.11 - Visa tab

Service Panel Back

Passenger Name: dsgdsg Agent Name: Simul
 Passenger Job ID: 5 Passenger Contact No: 123456789

[Passport](#) [Training](#) [Medical](#) [Visa](#) [Manpower](#) [Flight](#)

ManPower Details Entry

Manpower Agent:

Finger Data No:*
 Finger Date:*
 Clearing No:*
 Clearing Date:*

Mosaned:*
 Wokala:*
 Comment:

ManPower Details List

Agent	Finger Number	Clearing No	Clearing Date	Finger Date	Mosaned	Wokala	Action		
hasan	abcd1234	poi789	08/05/2016	07/12/2016	hjlhjl	abc	Edit Info	Show details	Delete
hasan	asdf258	fxhdfh	08/05/2016	06/27/2016	abcd	ghkgf	Edit Info	Show details	Delete

Figure 4.12 - Manpower tab

Service Panel
Back

Passenger Name:	dsgdsg	Agent Name:	Simul
Passenger Job ID:	5	Passenger Contact No:	123456789

Passport	Training	Medical	Visa	Manpower	Flight
-----------------	-----------------	----------------	-------------	-----------------	---------------

Flight Entry

Flight Agent: Select ▼

Flight Date:*	<input style="width: 95%;" type="text"/>	Country:*	Select ▼
Carrier Airway:*	<input style="width: 95%;" type="text"/>	Sector Name:*	<input style="width: 95%;" type="text"/>
Ticket No:*	<input style="width: 95%;" type="text"/>	Comment:	<input style="width: 95%;" type="text"/>
Issu Date:*	<input style="width: 95%;" type="text"/>		

Save

Flight List

Agent Name	Flight Date	Carrier Airway	Ticket No	Ticket Issu Date	Country	Action
hasan	10/10/2016	gvjfgvjzzzzzzzzzz	fhddfht	07/24/2016	Albania	Edit Info Show details Delete
hasan	10/10/2016	abc	gj	07/04/2016	Aland Islands (Finland)	Edit Info Show details Delete

Figure 4.13 – Flight tab

4.2.6. Passenger Contract Amount

Passenger Contract Amount

Agent Name:*

Passenger Job Id and Passport No:*

Passenger Amount:*

Contact Details:

Simul ▼
Select ▼
<input style="width: 95%;" type="text"/>
<input style="width: 95%;" type="text"/>

Add

Job Id	Agent	P.P.No	Details	Amount	Action
4	Simul	sfsag	Details	12300	Remove
5	Simul	46347tuji	Details	45600	Remove

Save

Figure 4.14 – Passenger agent contract

In this page user can add passenger contract amount by selecting agent name, passenger under this agent, filling up amount and contract details field. User can add multiple passengers under an agent and finally click save button. User also can remove passengers by clicking remove button before clicking save button.

4.2.7. Receive money

Passenger Amount Receive					Other Amount Receive	
Passenger agent and Invoice					Payment info	
Agent Name: <input type="text" value="Simul"/>					Invoice No: 10009	
Passenger agent and Invoice Details					Invoice Date: 08/04/2016	
Total: 905,467.00					Amount to Pay: 5,200.00	
Amount to pay ::					Paid Amount: 200.00	
Total Paid: 18,433.00					Due: 5,000.00	
Amount ::					Pay Date: *	
Total Due :: 887,034.00					Payment Type: * <input type="text" value="Cash"/>	
					Bank Name: <input type="text"/>	
					Cheque No: <input type="text"/>	
					Payment Details: *	
					Pay Amount: *	
					<input type="button" value="Pay"/>	
Invoice no	Passenger Name	Amount to pay	Paid Amount	Due		
10009	dsgdsg	5,200.00	200.00	5,000.00	Select	
10008	rreuihy	12,300.00	0.00	12,300.00	Select Delete	
10006	dsgdsg	50,000.00	5,000.00	45,000.00	Select	
10005	rreuihy	10,000.00	1,000.00	9,000.00	Select	
10004	rreuihy	754,544.00	1,233.00	753,311.00	Select	
10002	rreuihy	23,423.00	8,000.00	15,423.00	Select	
10001	rreuihy	50,000.00	3,000.00	47,000.00	Select	

Figure 4.15 – Passenger agent contract receive

localhost:9058/Travel_Agency/travel/Print_Receipt.aspx - Google Chrome

localhost:9058/Travel_Agency/travel/Print_Receipt.aspx

TAM SYSTEM

Invoice No: 10006 Invoice Date: 07/27/2016
 Total Amount to Pay: 50,000.00 Total Paid: 5,000.00
 Total Due: 45,000.00

Pay serial	Date	Pay Type	Details	Amount
Payment-1	27-Jul-2016	Cash	Details	5,000.00

Figure 4.16 – Invoice Passenger agent payment contract

In this page, there are two tabs, one for receiving amount from passing agent with respect to passengers and another for other amount receive for passenger agent. In first tab, if a agent is selected, the invoice list will show up bellow. From this list, user can print invoice on clicking upon invoice number and by selecting user can perform partial payment under this invoice. User can also delete invoice by clicking delete button only if there is no payment under this invoice.

Passenger Amount Receive				Other Amount Receive			
Passenger Agent:	Select ▼			Invoice No:	<input type="text"/>		
Pay Date:	08-08-2016			Account Type:	Bank ▼		
Receive Type:*	Select ▼			Current Balance:	123,600.00		
Payment From:*	<input type="text"/>						
Payment Type:*	Cash ▼						
Bank Name:	<input type="text"/>						
Cheque No:	<input type="text"/>						
Pay Amount:*	<input type="text"/>						
Payment Details	<input type="text"/>						
Save							

Invoice No	Agent	Payment From	Income Type	Pay Type	Pay Amount	Details	Action
10007	Simul	eugwe	Other	Cash	5,000.00	ujruju	Edit Info Show details
10003	Simul	reryery	Other	Cash	4,100.00	fgjfgj	Edit Info Show details

Figure 4.17- Other amount receive

localhost:9058/Travel_Agency/travel/Print_Receipt.aspx - Google Chrome

localhost:9058/Travel_Agency/travel/Print_Receipt.aspx

OTAM
S Y E S T E M

Income Type : Other
Invoice No: 10007 Payment From: eugwe

Date	Details	Amount
07-28-2016	ujruju	5,000.00

Figure 4.18- Invoice for other receive

In this tab user can receive money from anywhere under the passenger agent. User can mention receiving account also. User also can show details or edit information of each invoice from the invoice list.

4.2.8. Payment money

In this page there are two tabs, one for passenger service payment and another for other service payments.

Invoice No	Service	Payment To	Amount	Service Agent	Passenger Passport No	Job Id	Action
10008	ManPower	frhgfhdh	70,000.00	hasan	sfsag	4	Edit Info Show Details
10005	Flight	bvcbxvb	4,524.00	hasan	sfsag	4	Edit Info Show Details
10004	Flight	eugwe	1,234,444.00		sfsag	4	Edit Info Show Details
10002	Medical	sgdfg	100.00	hasan	sfsag	4	Edit Info Show Details

Figure 4.19 – Service center payment

If service center radio button is selected, user can pay to the service agent by mentioning service agent, passenger, service list, payment account and other payment details and finally clicking save button. User also can show details or edit payment information from the invoice list.

Invoice no	Passenger Name	Amount to pay	Paid Amount	Due	
10006	dsgdsg	4,000.00	400.00	3,600.00	Select
10001	rreuihy	3,000.00	2,100.00	900.00	Select

Figure 4.20 – Passenger agent commission payment

If passenger agent radio button is selected, user can submit commission agent payment by selecting agent name. After selecting agent name, the invoice under this agent will show up. User can select invoice and fill up payment amount and finally click pay button.

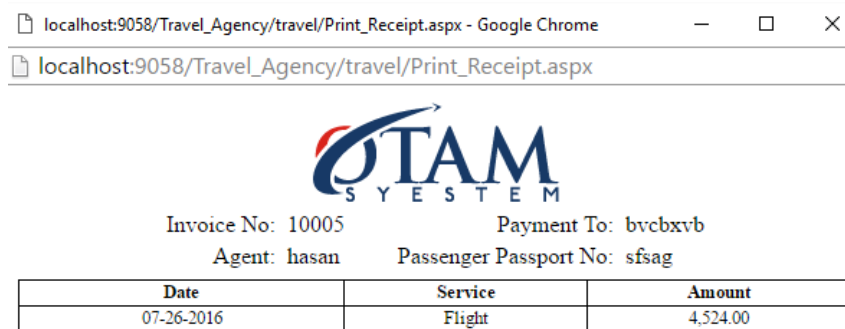


Figure 4.21 – Payment invoice

User can print invoice by clicking upon invoice number from invoice list.

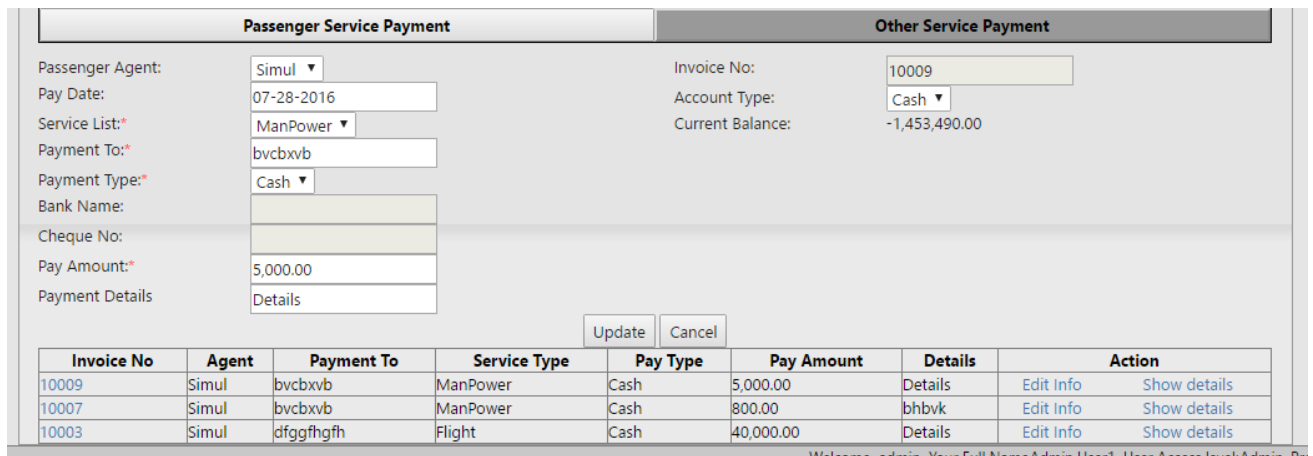


Figure 4.22 – Other service payment

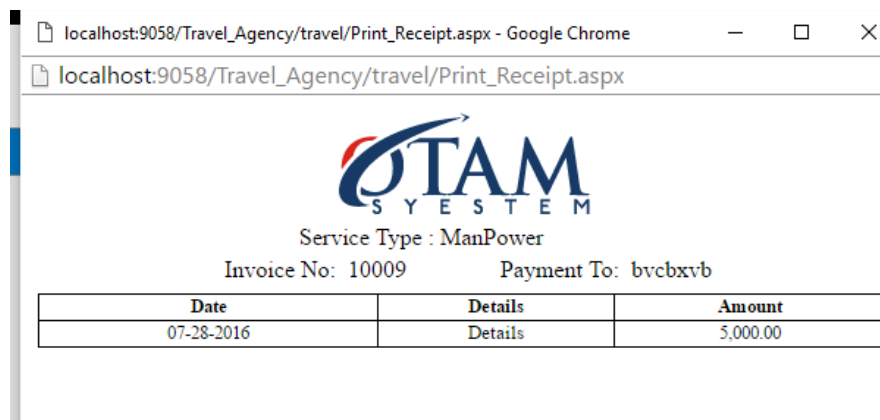


Figure 4.23- Other service payment invoice

In this page, user can insert other service payments by mentioning passenger agent, service type, payment account and other payment details. User can perform edit by clicking edit information button from the invoice list. User can also print the invoice from the invoice list.

4.2.9. Passenger Commission Amount

Passenger Commission Amount

Agent Name:*

Passenger Job Id and Passport No:*

Commission Amount:

Commission Details:

Job Id	Agent	P.P.No	Details	Amount	Action
4	Simul	sfsag	Details	12345	Remove
5	Simul	46347tuji	Details	4567	Remove

Total: 16,912.00

Figure 4.24 – Passenger agent commission contract

In this page user can insert commission amount over each agent with respect to passenger under this agent.

4.2.10. Status

Status Entry

Status

Status List

status	Action
Fit	Edit Delete
Unfit	Edit Delete
OK	Edit Delete
Not OK	Edit Delete
Good	Edit Delete
Pending	Edit Delete

Figure 4.25 - Status

In this page user can insert status and also can edit or delete the status.

4.2.11. Receive Type

Receive Type Entry

Receive Type

Receive Type List

Receive Type	Action
Other	Edit Delete

Figure 4.26 - Receive Type

User can insert receive type in this page and also can edit or delete receive type.

4.2.12. Service List

Service Type Entry

Service Type

Service Type List

Service Type	Action
Flight	Edit Delete
ManPower	Edit Delete
Visa	Edit Delete
Medical	Edit Delete
Training	Edit Delete
Passport	Edit Delete


Figure 4.27 - Service type

In this page, user can insert, edit, delete and service type.

4.2.13. Invoice Search

Receive Invoice
Payment Invoice

Invoice No: ▾



Invoice No: 10009 Invoice Date: 08/04/2016
 Total Amount to Pay: 5,200.00 Total Paid: 200.00
 Total Due: 5,000.00

Pay serial	Date	Pay Type	Details	Amount
Payment-1	03-Aug-2016	Bank-(Bank Asia)-nvgbv	fhgf	200.00

There are two types of invoice, one is receive invoice and another is payment invoice. If the user chooses date, the invoice number on that date will appear in the drop down. User can print or show the specific invoice.


4.2.14. Account Statement Report

Account Statement Report

From: To:

localhost:9058/Travel_Agency/travel/Print_Receipt.aspx - Google Chrome

localhost:9058/Travel_Agency/travel/Print_Receipt.aspx



Account Statement Report

Opening Balance: 0

Current Balance (Cash: -1,453,490.00 + Bank: 123,600.00) : -1,329,890.00

Date	Service Name/Job ID	Agent Name	Payment To/From	Payment Details	Received	Payment	Current Balance
22-Jun-2016	4- receive payment.	Simul	4 sfsag rreuihy	(Payment-1 of Invoice-10001) uhgkigh	3,000.00	0.00	3,000.00
23-Jun-2016	4- receive payment.	Simul	4 sfsag rreuihy	(Payment-1 of Invoice-10001) fdhf	0.00	2,000.00	1,000.00
23-Jun-2016	4- receive payment.	Simul	4 sfsag rreuihy	(Payment-1 of Invoice-10004) fdhgd	1,233.00	0.00	2,233.00
28-Jun-2016	Other receive payment.	Simul	reryery	fgifgj	4,000.00	0.00	6,233.00
07-Jul-2016	4- receive payment.	Simul	4 sfsag rreuihy	(Payment-1 of Invoice-10002) 3jhk.jh	8,000.00	0.00	14,233.00
16-Jul-2016	Other receive payment	Simul	reryery	Other receive payment adjustmet due to change amount for the invoice - 10003	100.00	0.00	14,333.00

In this page user can select from date and to date from the calendar. After that user can see account transactions between those dates.

4.2.15. Medical Report

Medical Report

Medical Exam Date From: To:

Medical Reporting Date From: To:

Status:


Country:

Agent:

Passenger Passport No:

localhost:9058/Travel_Agency/travel/Print_Receipt.aspx - Google Chrome

localhost:9058/Travel_Agency/travel/Print_Receipt.aspx



Medical Report

S/N	Agent Name	Job Id	P.Passport	P. Name	Medical Agent	Medical Serial No	Exam Date	Reporting Date	Status	Country	Remark
1	Simul	4	sfsag	rreuihy	hasan	cn	11-Jul-2016	18-Jul-2016	Not OK	Antigua and Barbuda	trurturu
2	Simul	5	46347tuji	dsgdsg	hasan	yrey57547	28-Jul-2016	20-Jul-2016	Not OK	Algeria	fjkgkh
3	Simul	5	46347tuji	dsgdsg	hasan	g89uiiu0	13-Jul-2016	20-Jul-2016	Pending	Algeria	fuj

In this page user either can choose medical exam's date range or medical reporting date range. User also can choose status, country, agent and passenger. After choosing these user can see or print medical report with respect to the parameters above.


4.2.16. Manpower Report

Manpower Report

Finger Date From: To:
 Clearing Date From: To:

Country:
 Agent:
 Passenger Passport No:

localhost:9058/Travel_Agency/travel/Print_Receipt.aspx - Google Chrome
localhost:9058/Travel_Agency/travel/Print_Receipt.aspx


ManPower Report

Sl.No	Agent Name	P.Passport No	P. Name	Manpower Agent	Finger Data Number	Finger Date	Clearing No	Clearing Date	Mosaned	Wokala	Country	Remark
1	Simul	sfsag	rreuihy	hasan	hgefbsjs	27-Jun-2016	fsdhfgj	06-Jul-2016	fgjfnk	gvhkvh	Antigua and Barbuda	fjkgkh
2	Simul	46347tuji	dsgdsg	hasan	abcd1234	12-Jul-2016	poi789	05-Aug-2016	hjlhjl	abc	Algeria	abcd
3	Simul	46347tuji	dsgdsg	hasan	asdf258	27-Jun-2016	fxhdfh	05-Aug-2016	abcd	ghkgf	Algeria	tutru

In this page user either can choose finger date range or clearing date range. User also can choose country, agent and passenger. After choosing these user can see or print manpower report with respect to the parameters above.


4.2.17. Flight Report

Flight Report

Flight Date From: To:
 Issu Date From: To:

Country:
 Agent:
 Passenger Passport No:

localhost:9058/Travel_Agency/travel/Print_Receipt.aspx - Google Chrome
localhost:9058/Travel_Agency/travel/Print_Receipt.aspx


Flight Report

Sl.No	Agent Name	Job Id	P.Passport No	P. Name	Flight Agent	Flight Date	Carrier Airway	Ticket No	Issu Date	Sector Name	Country	Remark
1	Simul	4	sfsag	rreuihy	hasan	10-Oct-2016	gyufyguj	gfjfgj	31-Jul-2016	abc	Antigua and Barbuda	tutru
2	Simul	5	46347tuji	dsgdsg	hasan	10-Oct-2016	gvjfgvjzzzzzzzzzz	fhddft	24-Jul-2016	nlm	Algeria	bvcnvbn
3	Simul	5	46347tuji	dsgdsg	hasan	10-Oct-2016	abc	gj	4-Jul-2016	dfhdfh	Algeria	abcd

In this page user either can choose flight date range or issue date range. User also can choose country agent and passenger. After choosing these user can see or print flight report with respect to the parameters above.

4.2.18. Training Report

Training Report

<input checked="" type="checkbox"/>	Admission Date From:	8/1/2010		To:	8/31/2016
<input checked="" type="checkbox"/>	Exam Date From:	8/1/2010		To:	8/31/2016
<input checked="" type="checkbox"/>	Certificate Date From:	8/1/2010		To:	8/31/2016

Status	All ▼
Country	All ▼
Agent:	All ▼
Passenger Passport No:	All ▼

localhost:9058/Travel_Agency/travel/Print_Receipt.aspx - Google Chrome
 localhost:9058/Travel_Agency/travel/Print_Receipt.aspx



Sl.No	Agent Name	Job Id	P.Passport No	P. Name	Training Agent	Admission Date	Exam Date	Certificate No	Certificate Date	Status	Country	Remark
1	Simul	4	sfsag	rreuihy	hasan	13-Jul-2016	03-Aug-2016	jfgj	19-Jul-2016	Not OK	Antigua and Barbuda	cvbxb
2	Simul	5	46347tuji	dsgdsg	hasan	13-Jul-2016	25-Jul-2016	gtujfgj55555	26-Jul-2016	Unfit	Algeria	tutru
3	Simul	5	46347tuji	dsgdsg	hasan	01-Jul-2016	23-Jul-2016	6frt67ft76898675	09-Jul-2016	OK	Algeria	fgufhfkgh

In this page user either can choose admission date range or exam date range or certificate date range. User also can choose status, country, agent and passenger. After choosing these user can see or print training report with respect to the parameters above.

4.2.19. Visa Report

Visa Report

<input checked="" type="checkbox"/>	Visa Application Date From:	8/1/2010		To:	8/31/2016
<input checked="" type="checkbox"/>	Visa Issu Date From:	8/1/2010		To:	8/31/2016
<input checked="" type="checkbox"/>	Visa Expaiure Date From:	8/1/2010		To:	8/31/2016

Country	All ▼
Agent:	All ▼
Passenger Passport No:	All ▼

localhost:9058/Travel_Agency/travel/Print_Receipt.aspx - Google Chrome
 localhost:9058/Travel_Agency/travel/Print_Receipt.aspx



Agent Name	Job Id	P.Passport No	P. Name	Visa Agent	Visa No	Visa Application Date	Visa Iss Date	Visa Expaiure Date	Copil Name	Job Title	Country	Remark
Simul	4	sfsag	rreuihy	hasan	ghkhgkv	01-Aug-2016	05-Jul-2016	19-Jul-2016	gdhfg	Hazz	Antigua and Barbuda	fdhfdh
Simul	5	46347tuji	dsgdsg	hasan	jfgkj7568	08-Jul-2016	19-Jul-2016	23-Jul-2016	hgkjk	gkvvghk	Algeria	trurtutru
Simul	5	46347tuji	dsgdsg	hasan	abcd1234	14-Jul-2016	19-Jul-2016	01-Aug-2016	fhurftgj	hjlhl	Algeria	tutru

In this page user either can choose visa application's date range or visa issue date range or visa expire date range. User also can choose country, agent and passenger. After choosing these user can see or print visa report with respect to the parameters above.

4.2.20. Passenger Details Report


Passenger Details Report

Agent:

Passenger Passport No:

localhost:9058/Travel_Agency/travel/Print_Receipt.aspx - Google Chrome

localhost:9058/Travel_Agency/travel/Print_Receipt.aspx



Passenger Details Report

Total Passenger: 1

Agent Name	Job ID	P. Name	P. Passport	Country	Service Name	Service Title	Service Value
Simul	4	rreuihy	sfsag	Antigua and Barbuda	Passport	Passport No	sfsag
						Passport Type	Ordinary
						Issue Place	Bogra
						Issue Date	14 Jun 2016
						Expire Date	21 Jun 2016
					Training	Training Agent	hasan
						Admission Date	13 Jul 2016
						Exam Date	03 Aug 2016
						Certificate No	jfgj
						Certificate Date	19 Jul 2016
						Status	Not OK
					Medical	Medical Agent	hasan
						Medical Serial no	cn
						Medical Exam Date	11 Jul 2016
						Medical Reporting Date	18 Jul 2016
					Visa	Status	Not OK
Comment	trurturu						
Visa Agent	hasan						
Visa No	ghkhgkv						
Application Date	01 Aug 2016						
Issu Date	05 Jul 2016						
Expire Date	19 Jul 2016						
Copil Name	gdhfg						
Country	Algeria						
Comment	fdhfdh						

In this page user can choose agent, passenger under the agent and see or print passenger service detail report.

4.2.21. Service Expense Report

Date	Service Name	Payment To	Payment Details	Expense Amount
16-Jul-2016	Medical	sgdfg	qwerty	100.00
20-Jul-2016	Flight	dfggfhgfh	Details	40,000.00
26-Jul-2016	Flight	eugwe	jufgjkgh	1,234,444.00
26-Jul-2016	Flight	bvcxbvb	xczxevzc	4,524.00
27-Jul-2016	ManPower	bvcxbvb	bhbvk	800.00
27-Jul-2016	ManPower	frhgfdh	dyhfhjfh	70,000.00
28-Jul-2016	ManPower	bvcxbvb	Details	5,000.00
Total:				1,354,868.00

In this page user can choose date range, service type and generate service expense report with in a date range.

4.2.22. Profit Report

Job ID	Passenger	Cost	Expense
4	rreuihy	850,267.00	1,309,068.00
5	dsgdsg	55,200.00	0.00

Total Cost:	905,467.00
Total Expense:	1,309,068.00
Loss(-)/Profit(+):	-403,601.00

In this page passenger can choose from or to date and generate profit report within a date range. It should be noted that the to date must be less than or equal to today.

4.2.23. Users

User Type ID	User Type	Action
1	Admin	Edit Delete
2	Accounts	Edit Delete
4	Manager	Edit Delete

Figure 4.28-User type

In this page user can insert user type. User also can edit or delete the user type. It should be noted that there should not be any user under that user type in case of deleting user type. Otherwise system will be block the deletion process.

Full Name	User Name	Employee	User Type	Phone	Email	Last Update	Action
Manager User1	manager	Morshed	Manager	1	1	16/Jul/2016	Edit Delete Change Password
Admin User1	admin	Morshed	Admin	1	1	01/Jun/2016	Edit Delete Change Password

Figure 4.29- User

In the page user can enter new user with respect to employee and user type. User also can change password by searching each user from the user list.

Figure 4.30- Password Change

4.2.24. Authentication

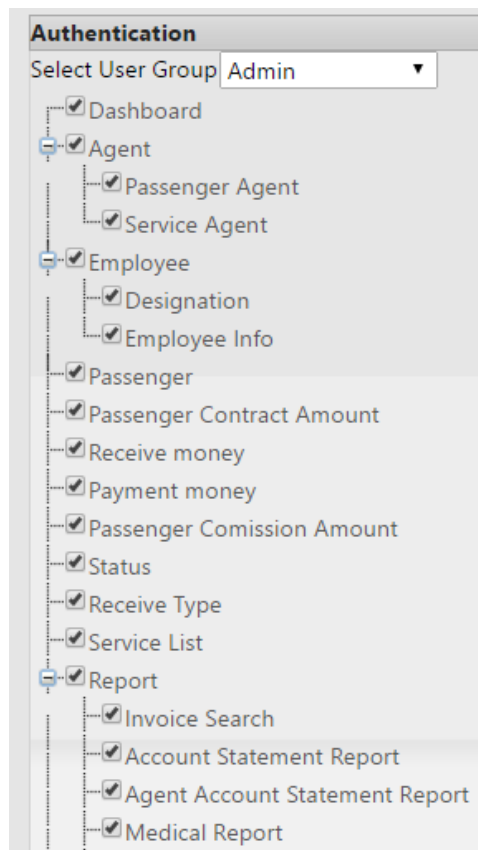


Figure 4.31-Authentication

In this page user can choose user group and select the passenger by clicking the check boxes beside the page on the tree. After clicking the save button the authentication of the user group will be done.

Chapter -5

(Conclusion and Future Work)

5.1 Conclusion

Bangladesh is a developing country. A true development will be done by using information communication and technology. There are many countries that are performing automation in travel agency sector, but Bangladesh is far behind. Most of the travel agencies follow old paper running manual system. Through this project I tried to automate main processes of a travel agency. This web based application will help a travel agency to process every financial transaction smoothly and securely. This project is also very effective for the admin and the officers. Though this web application is device independent and remotely access able, authenticate users can easily access into the software. I think every travel agency will be more benefitted by using this software.

5.2 Future Work

The future plan of this project is to improved design. There are so many thing could be added in this software. In future this software could be more effective if some extra modules can be added into it. The extra modules are given below:

- Employee attendance with access control device.
- Online payment policy.
- HR & Payroll system.
- Two level authentication in accounts system.
- More users friendly.
- Faster design patterns.

References:

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