SMART TOUR PLAN

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This Report Presented in Partial Fulfillment of the Requirements for the

Degree of Bachelor of Science in Computer Science and Engineering.

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APPROVAL

This Project titled **"Smart Tour Plan,"** submitted by Maruf Asruf Mipu, ID No: 142-15-3610 and Sabia Arefin, ID No: 142-15-3635 to the Department of Computer Science and Engineering, Daffodil International University has been accepted as satisfactory for the partial fulfillment of the requirements for the degree of B.Sc. in Computer Science and Engineering and approved as to its style and contents. The presentation has been held on 7th May, 2018.

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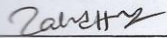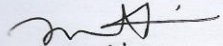Faculty of Science & Information Technology
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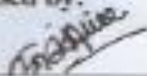Department of Computer Science and Engineering
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DECLARATION

We hereby declare that, this project has been done by us under the supervision of Mr. Shah Md Tanvir Siddiquee, Senior Lecturer, Department of CSE Daffodil International University. We also declare that neither this project nor any part of this project has been submitted elsewhere for award of any degree or diploma.

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ABSTRACT

This project is on **"Smart Tour Plan"**. We know Bangladesh has many historical place. In this project, we are trying to give the idea about tourist places so everyone can keep knowledge about the historical place and they can travel to those places, this is the main purpose of our project. Traveler can see the event in our website and choose the tourist place. Tour guide will help them. In this project, we have also include how people travel form one place to another place. Using this existing system they can do reservation their nearest hotel. From this application travelers will get information about attractive place in Bangladesh. We have used HTML, CSS, JAVASCRIPT, JQUERY to design the website layout and SQL server used for database and development by using ASP.NET. We are thankful our supervisor Mr. Shah Md Tanvir Siddiquee who seemed to have solutions to all our problems. We get some important learning experience form this project. This project inspire us to do other project and also helps us in our future work.

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CHAPTER 1

INTRODUCTION

1.1 Introduction

Our project is Smart tour plans. This System is a web based application. The main purpose of system is to provide a convenient way for a customer to find the path in less time at lower cost for tour purposes. Every day the interest in the tour is increasing. Our purpose is that the people can easily go for tour anywhere in less time at low cost and can conveniently walk around them .This existing system also gives tours related information like which places are tourist attractions, cities, and provinces. So we will create a software to implement that which every person can easily reach their destinations at low cost.

Features of this system:

Through this system, anyone can easily plan tours anywhere.

Through this system, everyone will be able to know at a lower cost in less time.

It is possible to verify that it will be a good package at a very low

cost. You will can easily choose which package will be good for

traveling. Form event system anyone can go with event group.

1.2 Motivation

We are interested to do this project because it is very helpful for traveler people. It is different types of tours because you can easily select the place. If the customer ask for the details of a particular tour, this system gives the details the tour event and they can help form tour guide. Travelers will contact the tour guide for any kind of information. Customers can easily find out the place and they can go with our event group. It is very easy way to find out the place history before going the place. And also can hire tour guide.

1.3 Identify Problem

For those people who want to go to the tour, there is a big problem for them, they can't decide how much money will be spent for any hotel to stay well. It's a big problem. Day by day this problem are increasing. They can't find out the proper way. If they are going to any place they did not find out the nearest hotel. So it's a very hard to find out the nearest hotel for staying.

1.4 Primary Target To Solve

We want to create a software that helps a person by considering everything that is good, you can easily go on a tour and easily find out tour guide. Before going to the tour you can easily know the historical place and also can hire tour guide. You can easily select the tour place and how much time you spent there.

1.5 Report Layout

Chapter 1: Introduction

In this chapter we have discussed about the introduction, motivation, objectives, identify problem and primary target to solve of the project. Later followed by the report layout.

Chapter 2: Background

In this chapter we have discussed about the related research background. We also talk about the comparative studies, the scope of the problem and challenges of the project.

Chapter 3: Requirement Specification

In this chapter we have discussed about the requirements like business process modeling, the requirement collection and analysis, the use case model of the project and their description, the logical relational database model and the design requirements.

Chapter 4: Design Specification

In this chapter we have discussed about all the designs of the project. Front-end design, back-end design, interaction design and UX and the implementation requirements.

Chapter 5: Implementation and Testing

In this chapter we have discussed about contains the implementation of database, front-end designs, interactions and the test results of the project.

Chapter 6: Conclusion and Future Scope

In this chapter we have discussed about the conclusion and the scope for further developments which pretty much derive about the project.

CHAPTER 2
BACKGROUND

2.1 Introduction

This project based on web design and development .Now a days people wants easy way everywhere so why no in travel time. From this website one can easily know about many attractive place. By getting travel information travelers can easily plan the tour and have a brief idea about the place, and event. From the event they can go a tour and have a clear idea about budget and time.

2.2 Related Works

We have researches plenty of documents related with tour. We have monitored the functionalities of some top ranking tour and travel software. These software are highly decorated with functionalities. Some top ranked tour and travel software are following:

2.2.1 Related Research Background – 1

Name: holidays.com.bd

Description: Holidays Tours & Travels is a Tour Operator and Travel Agency Helicopter charter service Dhaka being managed by a team of professionals with several years of experience in the field of Tours & Travel trade and Helicopter rental Dhaka in the field of hospitality in Bangladesh.

Features: holidays.com.bd have many features. Some features are-

Tours is local.
Visa services.
Medical tourism and
info. Hotel reservation.
Car rental.
Latest advertisement.
Emergency info.

Screen Sort:

Figure – 2.1

2.2.2 Related Research Background – 2

Name: amazingtoursbd.com

Description: Amazing tours is leading tour operator of Bangladesh and they are Member of Tour operators Association of Bangladesh (TOAB) are Pacific Asia Travel Association (PATA). They are not only tour operator, They established Software company, that company provide many products and other kinds of Software.

Features: amazingtoursbd.com have many features. These are –

Destination.

Hotel.

Group tour package.

Screen Sort:
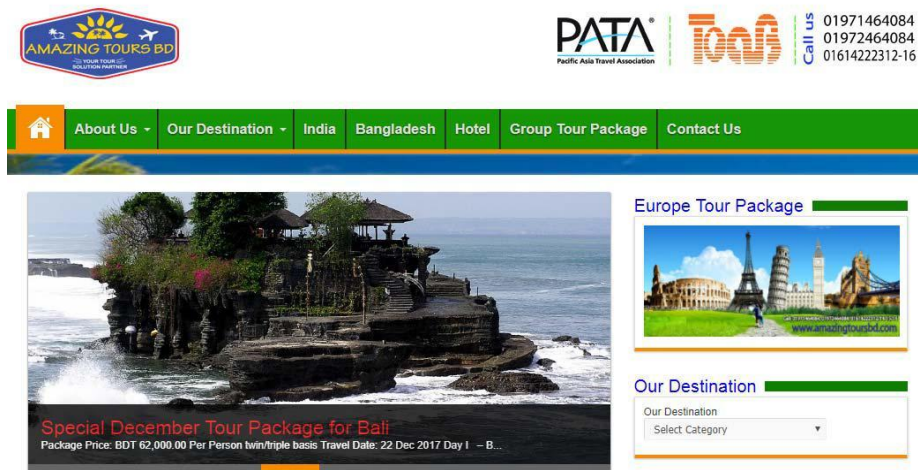
Figure: 2.2 – Holidays

2.2.3 Related Research Background – 3

Name: visitbangladesh.gov.bd

Description: Bangladesh's tourist attractions include historical and monuments, Resorts, beaches, picnic spots, forests and tribal people, wildlife of various species.

Activities for tourists include angling, water skiing, river cruising, rowing, Yachting, and sea bathing.

Features: visitbangladesh.gov.bd have many features. They are –

> About Bangladesh.
> Things to do.
> Things to see.
> Where to stay.
> Travel essentials.
> Gallery.

New

Screen Sort:

Figure: 2.3 – Visit Bangladesh

2.3   Comparative Studies

Our implemented software is different for those software here

Customer user easily find out their needed information. And this existing system they can hire travel guideline. We also create an event. If they interested they can go with the event group.

2.4   Scope of the Problem

For those people who want to go to the tour, there is a big problem for them, they can't decide how much money will be spent for any hotel to stay well. It's a big problem. Day by day this problem are increasing. They can't find out the proper way. If they are going to any place they did not find out the nearest hotel. So it's a very hard to find out the nearest hotel for staying.

2.5 Challenges

Provide the proper information to the

travelers. To make Group travel.

Manage the event.

Minimize the tour cost.

To provide proper guideline.

Before tour they can reservation

hotel. Easy to find out the tour place.

Easy to find out the tour guide.

CHAPTER 3
REQUIREMENT SPECIFICATION

3.1 Business Process Modeling

Business process modeling is the systems engineering is the activity of representing processes of an enterprise, so that the current process may be analyzed or improved. BPM is typically performed by business analysts, who provide expertise in the modeling discipline; by subject matter experts, who have specialized knowledge of the processes being modeled; or more commonly by a team comprising both. Alternatively, the process model can be derived directly from events' logs using process mining tools. Redesigning a process and implementing it is not a speedy enterprise. It can take months and occasionally years, depending on the extent of the process and sub-processes, how many people and systems are involved and how much of it needs to be redesigned. We used a UML Use Case Model as a business process model.

3.2 Requirement Collection & Analysis

There are some basic requirements collected during implementation of the software and also in the data collection. Here are some given below -

Needed to do register and create an account.

Needed to log in.

Needed a valid email.

Check the event.

Hire the guideline.

Easy to choose event.

Check the google map.

Easy to check the historical place in Bangladesh.

3.3 Use Case Modeling and Description

A use-case model consists a number of model elements. A use-case diagram is the graphical representation of how system works.
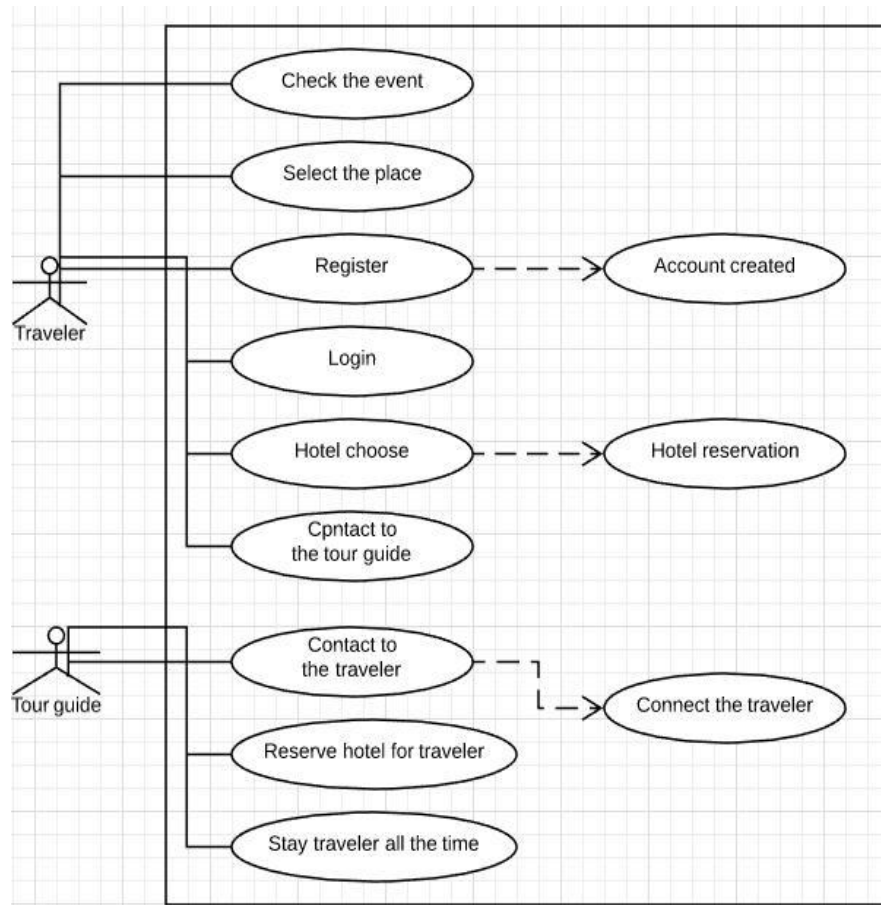
Figure: 3.1 – Use case diagram for user and guide

In this diagram we discussed the role of admin. In our project admin fully controlled this system. Such as how to create, edit, update, delete and view etc.
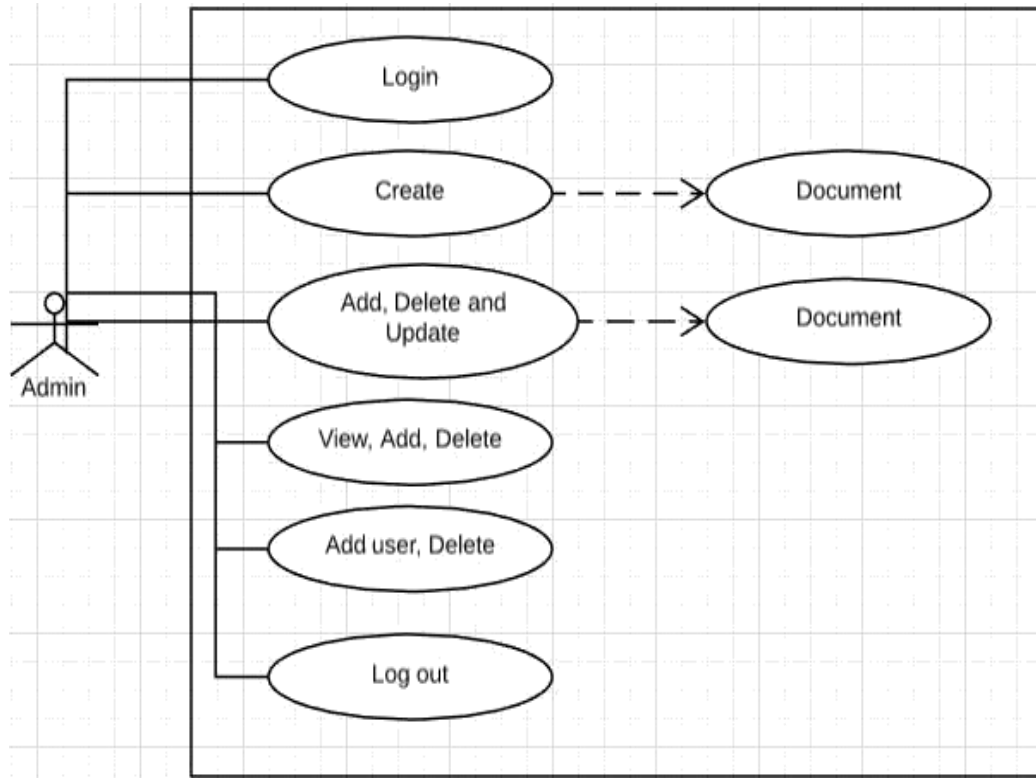
Figure: 3.2 – Use case diagram for Admin

3.3.1 Use Case Description

Table 3.1: Use case description of registration

Use Case	Registration
Primary Actor	Traveler
Secondary Actor	Null
Pre-condition	Null
Scenario	Enter valid full name Enter valid email address Enter the password minimum 6 character Sign up me
Post-condition	Registration successfully completed or failed Login

Table 3.2: Use case description of login

Use Case	Login
Primary Actor	Traveler
Secondary Actor	Null
Pre-condition	Registration
Scenario	Enter valid email address Enter the password
Post-condition	Login successfully completed or failed

Table 3.3: Use case description of hotel reservation

Use Case	Hotel reservation
Primary Actor	Traveler
Secondary Actor	Null
Pre-condition	Login as a traveler
Scenario	Enter full name Enter valid email Enter valid contact number Enter valid address Enter tourist location Enter booking hotel Payment procedure
Post-condition	Hotel reservation successfully completed or failed Payment procedure successfully completed or failed

Table 3.4: Use case description of check the event

Use Case	Check event
Primary Actor	Traveler
Secondary Actor	Null
Pre-condition	Login
Scenario	Check the event Choose the event place Select the date and time
Post-condition	Event successfully completed

Table 3.5: Use case description of tour guide

Use Case	Tour guide
Primary Actor	Traveler
Secondary Actor	Null
Pre-condition	Login
Scenario	Search the tour guide Select the tour guide Take the information
Post-condition	Contact the tour guide

3.4 Design Requirements

This system will contain the type of travelers.

Traveler will see the historical place.

Traveler will choose any place.

After register and login traveler will check the

event. Traveler will choose any event.

If traveler choose any event than they reservation the hotel.

Traveler will contact with tour guide for any kind information.

When the hotel reservation will complete traveler will complete the

payment procedure.

Traveler will contact the tour guide.

If traveler face any problem tour guide will help.

CHAPTER 4

DESIGN SPECIFICATION

4.1 Front-end Design

Front-end design representation of a software. This is the way of interaction between the users and servers. It is known as a client-side development. The most aspect of the software development this is the most important part to design the front-end. We had created a simple front-end design for the users. It justify to co-operate with the software easily. Some front-end design of our software is given below.

4.1.1 Home Page

In the home page there are some menu bar, and slider. Whole website is fully responsive. Anyone can be viewed in many devices.
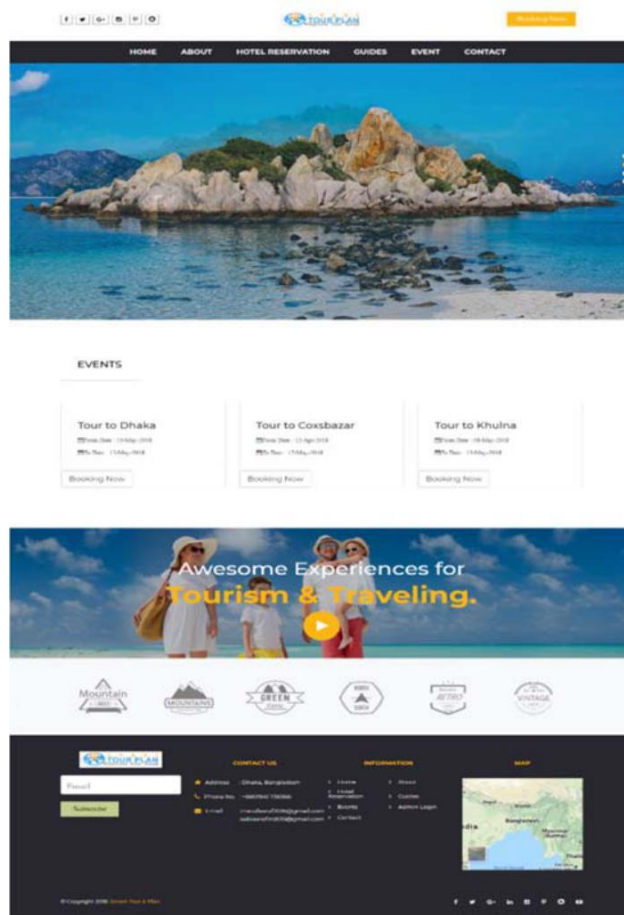
Figure 4.1: Home page

4.1.2 About

Here is a about page which contains the information of the page.
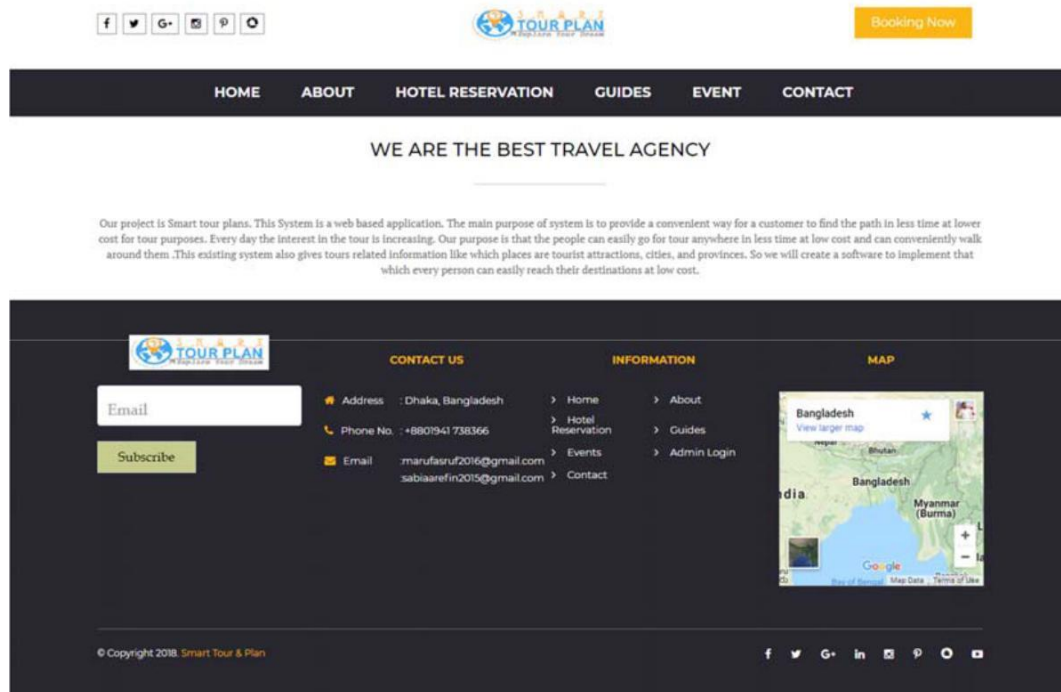
Figure 4.2: About

4.1.3 Login

Here is a login page which contains all the format of the login page.
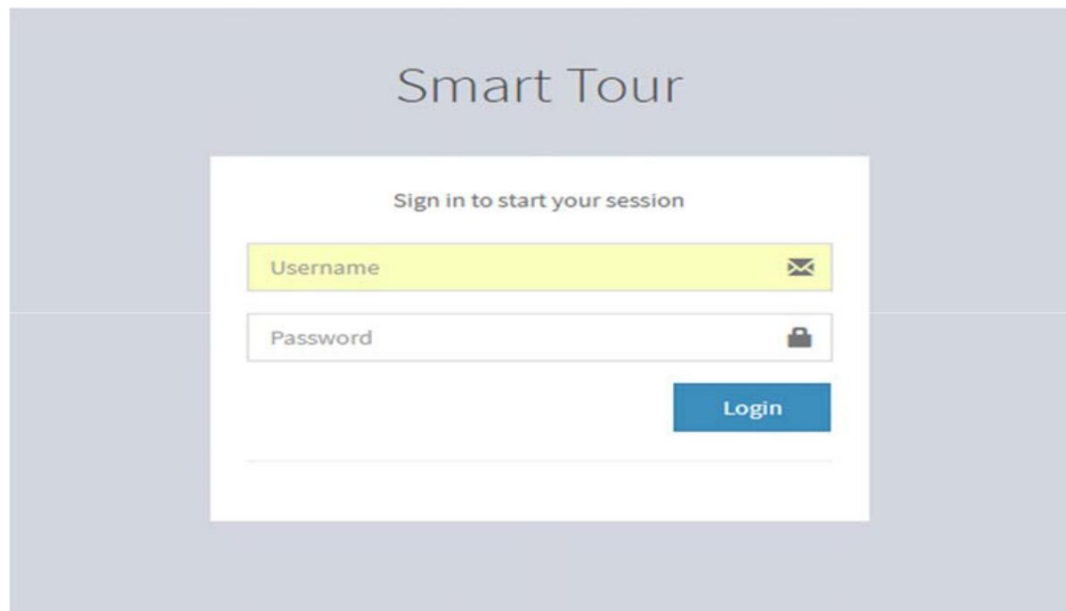
Figure 4.3: Login

4.1.4 Tour guide

In the tour guide page we found all the information for tour guide. So it is very easy way to find out the tour guide.

Figure 4.4: Tour guide

4.1.5 Event

In the event page we see the circular for tourist place, date, time and cost. If you want to go than select the event page for confirm to the travel place.
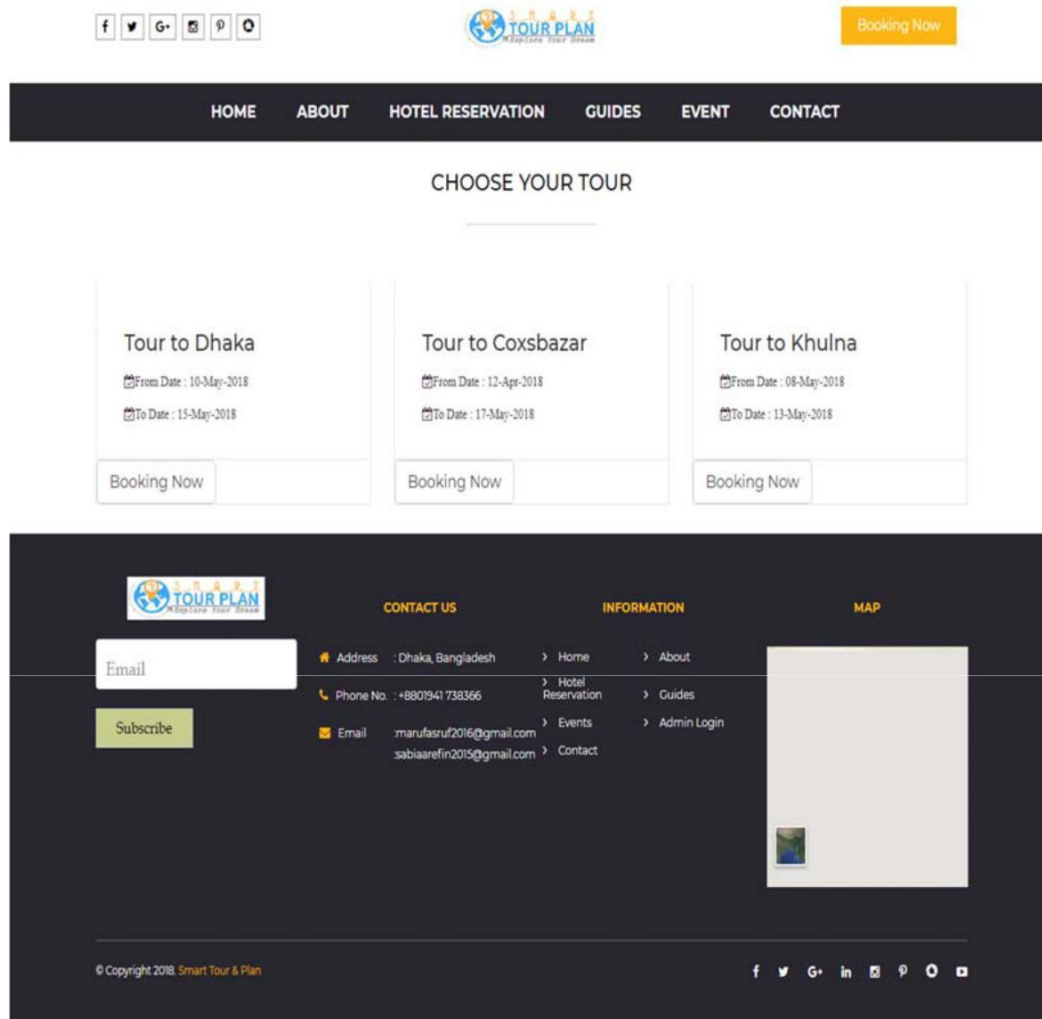
Figure 4.5: Event

4.1.6 Reservation

In the reservation page we select the tourist place and also select the hotel. So it is very helpful after go to the tour.

Figure 4.6: Reservation

4.1.7 Location

In the location page admin choose the any location.

Figure 4.7: Location

4.1.8 Contact
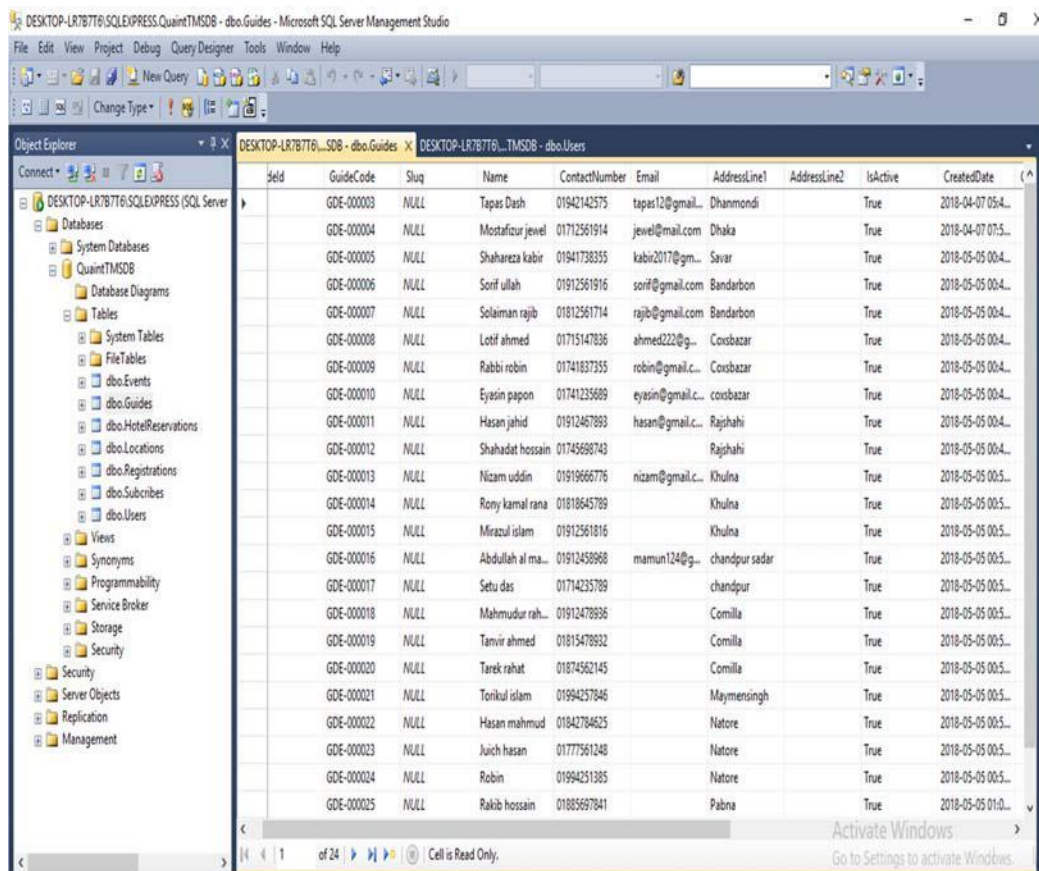
Figure 4.8: Contact

4.2 Back-end Design

Logical part of the software happened in the back-end design. This is the most crucial part of the software. Whole system depends on the software. Back-end design refers server side. In the back-end design there are many factor of consists like scripting languages or server side language, automated framework, database management, security, authentication, authorization, data parsing, data validating, data backups etc. We developed "Smart Tour Plan" using ASP.NET, The SQL server database for saving the all data information.

Figure 4.8: Tour-guide list

Figure 4.9: Event list

Figure 4.10: Hotel reservation list
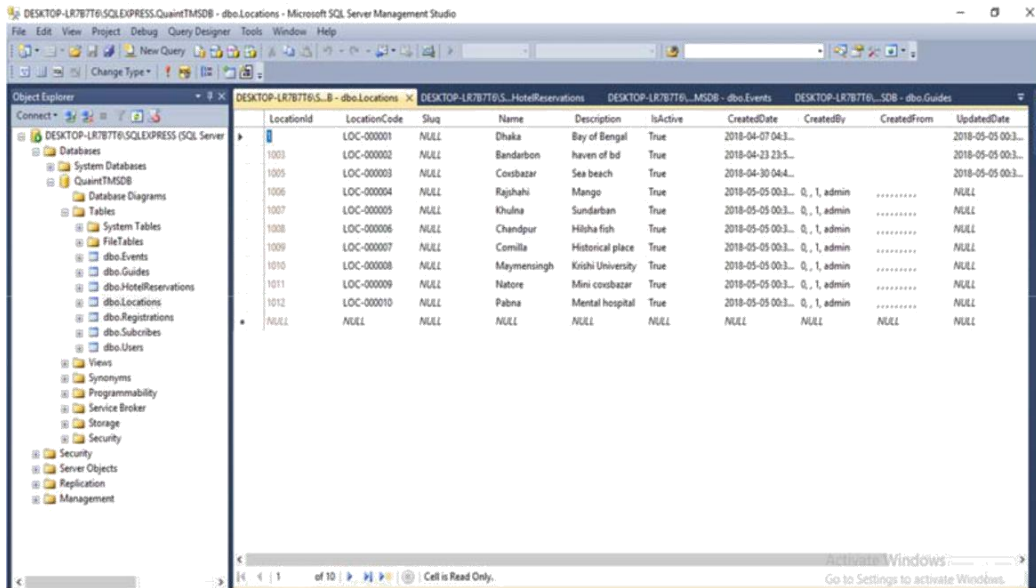
Figure 4.11: Location list

4.3 Interaction Design and UX

We were designed this web application software using bootstrap framework. It helps us to design a better visual for the users and it is also responsive in many formats.

4.4 Implementation of Requirements

It needed to implement in ASP.NET.

Database is SQL server.

From validation needed.

Bootstrap framework is needed front-end

design. In database failed log in stored.

Error message should be displayed for invalid data

input. Jquery needed for specific design.

Different types of fonts and icons are used form fontawesome and google

font.

CHAPTER 5

IMPLEMENTATION AND TESTING

5.1 Implementation of Database

ASP.NET Web application is a platform for the building applications on the .NET Framework. ASP.NET is an integral part of huge applications running on the Windows and provides a common functionality for the applications to running. For developers, the ASP.NET Framework provides a consistent programming model for applications.

5.1.1 Overview of the .NET Framework

ASP.NET Framework is a technology and it supports the building and running next generation application. ASP.NET Framework is designed the following objectives:

• To provide the consistent object-oriented programming whether object is stored also executed locally, but Internet-distributed and executed remotely.

• To provide code-execution of the environment that minimizes of the software deployment.

• To provide code-execution environment that the performance problems interpreted environments.

• To build up all communication on industry to ensure that code based on ASP.NET Framework can change with any kind of code.

5.1.2 Web Server

A computer delivers web pages to the browsers and other files of applications via the HTTP protocol is called the Web Server.

A Web Server program is running. Web Server program is a software program that is working as a serving web documents.

5.2 Implementation of Front-end Design

For all the users it's very challenging to make a simple UI design, we should try to make as a simple design. We create our website responsive so users can visit from different devices and easily access. We used HTML, CSS, JavaScript and JQuery technologies.

The implementing of front-end design are given below -

There will be two types of users like Admin and users or

travelers. The User can login using their email and password.

User profile for updating, user must be enter the password for there security purpose.

5.3 Implementation of Interactions

We have implemented responsive UI for better user experience. It make things to easy we use icon, button and text. The software system design is user friendly. User will easily access this website.

5.4 Testing Implementation

Testing implementation is the process of testing of a system, where tester architect will see the cases of specification.

Table 5.1: Test case evaluation

Test Case	Test Input	Expected outcome	Obtained outcome	Pass / fail	Tested on
1. Login	Login in various devices	Successfully login	Successfully login	Pass	21-03-18
2. Registration	name, password, email	Fill up all the fields	Fields are must filled by data	Pass	18-02-18
3. Password	Incorrect password or empty	Warning the incorrect password or field is empty	Show warning	Pass	16-01-18
4.Profile settings	View profile, Update profile	Show and update profile information	Show and update information successfully	Pass	07-0-18
5. Tour guide	Input place	Search the place	Place successfully created	Pass	03-01-18
6. Reservation	Input Place	Select date and time	Successfully completed	Pass	08-02-18
7. Event	Select place	Date and time fixed	Successfully selected	Pass	01-03-18
7. Logout	Click logout button	Logout from the account	Logged out successfully	Pass	04-02-18

CHAPTER 6

CONCLUSION AND FUTURE SCOPE

6.1   Discussion and Conclusion

This report explain our project work experience with design and development. We have designed a tourist website and we also developed the website. We have used a different design and developing tools to develop our website.

This report is a result of our tourism web project. We gathered many information by facing problem than resolving that. It will helps us in our future life.

Our project we gather some real life experience of design and development. By doing this project we are applying our skill of development and gather some useful experience. This project help to inspire us doing real life many project. This system will be come with more upgrade and new feature will added in future.

6.2   Scope for Further Developments

This website will be implemented better UI if needed in the future or looking good. Some system features will be upgraded for better use.

Online payment system could be used in future to collect user payment on time.

Some limitations are here so there are some scope for further development in future.

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APPENDEX

1. **Use Case Diagram**: A use case is a list of steps, typically defining interaction between a system to achieve a goal. The actor can be a human or an external system.

2. **SQL:** A relational database stores the data in the form of tables and columns. A table is the category of data, like package, and the columns are information about the category, like name or address.

3. **CSS:** Cascading Style Sheets (CSS) is a style sheet language used to describe the look and formatting) of a document written in a markup language. CSS is used for both the authors and readers of web pages to define colors, fonts, layout, and other document presentation.

4. **User Registration:** Using this a user can register to this site. After the registration users can get many benefits and logged in this site. When a user logged in this site. Registration is more important to keep users as individual. When a user fulfill acceptable fields and press the save button the user may able to resisted if he/she done.

5. **User Login:** When a user is registered then he/she can logged in. User register email and his/her password if he right done the site must log in to this user.

Plagiarism Report