

**FINAL YEAR PROJECT AND INTERNSHIP REPORT**  
**A WEB BASED PROJECT ON EASYTOUR**

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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 “An Web Based Project on EASYTOUR”, submitted by Provashish Roy, ID No: 143-15-4354 and Shipan Mallik, ID No: 142-15-4063 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 04.05.2019.

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## DECLARATION

We hereby declare that we have taken this project under the supervision of **Mr. Masud Rabbani**, Lecturer, Department of Computer Science and Engineering, Daffodil International University. We also declare that neither this project nor any part of this has been submitted elsewhere for award of any degree.

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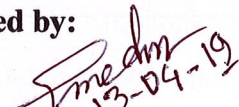
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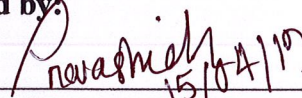
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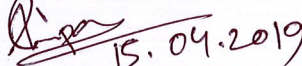
  
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## **ABSTRACT**

This project entitled “EasyTour” is a website to manage tourism site. It will assist in managing a tourism center. There is a few number of Tourism centers in our country. For the rapid growth of working people the number of tourism sites will increase more in near future. None of these center, use online platform to make a better caring and sharing their works about tourism. This project aims at maintaining all the information pertaining about tourism in a better way. This project will create this opportunity to keep all the tourism center & tourist closer. This project helps you to book tour packages, hotels and make your tour easier than ever. And that will be the success of this project. We used RAW PHP, HTML 5, CSS 3 and Bootstrap for this website. We also used scripting language: JavaScript to make it more user friendly.

# TABLE OF CONTENTS

<b>CONTENTS</b>	<b>PAGE</b>
Board of examiners	i
Declaration	ii
Acknowledgement	iii
Abstract	iv
<b>CHAPTER</b>	
<b>CHAPTER 1: INTRODUCTION</b>	
1.1 Introduction	01
1.2 Motivation	01
1.3 Objective	01
1.4 Expected Outcome	02
1.5 Report Layout	02
<b>CHAPTER 2: BACKGROUND</b>	
2.1 Introduction	03
2.2 Related Work	03
2.3 Comparative Studies	03
2.4 Scope of the Problem	04
2.5 Challenges	04
<b>CHAPTER 3: REQUIREMENT SPECIFICATION</b>	
3.1 Business Process Modeling	05
3.2 Software Development Lifecycle	07
3.3 Requirement Collection and Analysis	08
3.3.1 Functional Requirement	08
3.3.2 Non-Functional Requirement	08
3.4 Use case Modeling and Description	09

3.5 Logical Data Model	13
3.6 Design Requirements	13
<b>CHAPTER 4: DESIGN SPECIFICATION</b>	
4.1 Front End Design	14
4.2 Architecture of Front End User	14
4.3 Back End Design	15
4.4 Interaction Design and UX	15
4.4.1 Homepage	16
4.4.2 Registration	17
4.4.3 Login	17
4.4.4 Tour Package	18
4.4.5 Hotel Package	20
4.4.6 Booking Tour Package and Hotels	22
4.4.7 Create Blog Post	23
4.4.8 Live Conversation	24
4.5 Implementation Requirements	24
<b>CHAPTER 5: IMPLEMENTATION AND TESTING</b>	
5.1 Implementation of Database	25
5.2 Implementation of Front End Design	26
5.3 Testing Implementation	27
5.4 Test Result and Report	29
<b>CHAPTER 6: CONCLUSION AND FUTURE SCOPE</b>	
6.1 Discussion and Conclusion	30
6.2 Limitation of Our Website	30
6.3 Scope of Future Developments	30
<b>REFERENCE</b>	31
<b>APPENDIX</b>	32

## LIST OF FIGURES

<b>FIGURES</b>	<b>PAGE</b>
Figure 3.1 - The Business Process Model of EasyTour	06
Figure 3.2 – Waterfall Model of the system	07
Figure 3.3 Use Case Modeling for User	10
Figure 3.4 - Use Case Modeling for Admin	11
Figure 3.5 - Use Case Modeling of EasyTour	12
Figure 4.1 – PHP Architecture	15
Figure 4.2 – Screenshots of Homepage of EasyTour	16
Figure 4.3 - Screenshot of Registration page of the website	17
Figure 4.4 - Screenshot of Login page of the website	17
Figure 4.5 - Screenshot of Tour Packages of EasyTour	18
Figure 4.6 - Screenshot of Add Tour Packages in Admin Panel of EasyTour	19
Figure 4.7 - Screenshot of Hotel Packages of EasyTour	20
Figure 4.8 - Screenshot of Add Hotel Packages in Admin Panel of EasyTour.	21
Figure 4.9 - Screenshot of Booking package and hotel of EasyTour	22
Figure 4.10 - Screenshot of Add Blog Post of EasyTour	23
Figure 4.11 - Screenshot of All Blog Post of EasyTour	23
Figure 4.12 - Screenshot of a conversation between user and admin of EasyTour	24
Figure 5.1 - Screenshot of the database table of PhpMyAdmin of EasyTour	25



# Chapter 1

## Introduction

### 1.1 Introduction

The Project is a web based project. This is a great project. Which is designed for the successful completion to manage tourism system. The principle motivation behind "EasyTour" is to give a helpful way for an individual to book tour packages, hotels for tour purposes. In this project, we will make a simpler errand of searching places and for booking packages and hotels. In the present framework an individual needs to approach different organizations to find details of places and to book them. This frequently requires a great deal of time and exertion. We give approach aptitudes to fundamentally look at how a traveler visits and its capacity to work in a suitable way when managing the results of the travel industry, locally, territorially, and broadly including guest security and natural impacts. It is monotonous for a person to design a specific voyage and have it executed legitimately. The project 'EasyTour' is created to supplant the present existing framework, which helps in tracking the customer subtleties of goal.

### 1.2 Motivation

I and my friends loves to travel. One day we went to a place where we don't go there before. That was the first time we go there. So, we didn't know about the cost but we need to go there. At a time we found ourselves with not enough money to continue the journey and not enough to stay one night on a resort and return home too. However we managed that situation and come back home safely. These made us think about how nice if we have detailed information about the journey of this place. So, we decided to building a web application which will assist a traveler about whole information about his journey also he can book bus ticket and hotel room in advance.

### 1.3 Objective

The primary objective behind this web application is providing right information for complete the tour properly.

- i. With this web application people can get information about the tour. Such as the total cost of the tour, travelling time, numbers of available hotel rooms etc.
- ii. People can easily book hotel rooms in advance.
- iii. This web application provides some packages which contain the whole part of a tour which helps people to save their valuable time, they just choose one package and the system will manage all matters of their journey.
- iv. People can easily share their feeling before and after using its service.
- v. People can communicate with management anytime.
- vi. People can search information about their tour through it.
- vii. The server of it don't getting down any time.
- viii. It'll save valuable time of its user and providing proper information.

#### **1.4 Expected Outcome**

We expect the outcome from our project is absolutely right and specific. Main facilities available in this project for both of users & admin. By using it people can feel comfort to go on a tour. People can easily find all necessary information about travelling. It collects data and information regarding tourist spots. User can directly book bus tickets and available hotel rooms. People can search specific tour packages and more information about their tour. Everyone can easily share their experience about the journey and others can reply their opinion also.

#### **1.5 Report Layout**

In this project a full overview of our system and related work and terminologies are given gradually. We recently made a survey on this similar work and try to what is more scope to develop this existing project. In chapter 2 we describe the challenges and facing problem which is make difficult to us. Another chapter 3 we describe the three stage of background. We also describe the requirement specification and try to disclose users demand. In, chapter 4 and 5 we disclose how we solve the problem and what we use to implement the project. Finally, in chapter 6 we remark some concluding and suggestions for future works.

## **Chapter 2**

### **Background**

#### **2.1 Introduction**

For the advancement of the travelers we decided to build a web application which will help them to keep them away from any bad incident to their travel. It'll easily help them to getting information about tourist spots. They can easily book tour packages and hotel rooms in advance also. For that we started developing a website, started collecting information about tourist spots. This website will not only help tourist of our country but also tourist all over the world. No tour plan will now be ruined as there is always an assistant by your side help you get detailed plan of tourist spots whenever you need it. Everyone with internet now can get help from our website.

#### **2.2 Related Work**

We found no such website like ours. However there are some websites that has a little features like us but not a complete one. Those websites are pretty good to providing some information about tour place but not all the information are available on those websites. We provides all information about a place and provide a blog section where everyone can easily share their thoughts about a place.

#### **2.3 Comparative Studies**

We have developed our project for using as a completely web-based benefit to fulfill the system according to smart level. For this, we have researched some features on tourism sites based on web application. The various sites of tourism has published, but our project will be better to use easily. They have some limitations. They are mostly static. User cannot contact others because there is no community feature available in the websites. They cannot share their experiences and feedback easily. They will not be able to help others and receive first hand help from others too. Most of the time those sites server working slowly, sometimes servers are down. Creation of a public post is available here which is also unique. Our website is also responsive which helps people for use it on any mobile device

platform and on desktop computers too which makes it different from all others. We believe it's easy for all types of customers.

## **2.4 Scope of the Problem**

The main aim of our project is to provide a web based project on tourism system. It will be an easy way for users to connect with others to share their tour experiences and feedback in time. Here user can find all necessary information about travelling. Through this process the users will get regular tour events notification, support, instruction & feedback. User can book hotel room by using it.

## **2.5 Challenges**

When we decided to develop our project we think about our project ideas. Then we decided to develop tourism website to make our tour easy. But when we started to developing it we face some challenges. Our project is about helping people to their tour easiest by providing tour information. But now-a-days we all are using social media as like as Facebook, YouTube and Twitter etc. When we need something we directly search through these social Medias. So it is quite hard to take place of it. In these social media some bad people providing wrong information about it but in our website we are trying to provide 100% valid information about tourism. We believe that one day it will be place as a favorite website of our users because we make it more user friendly and more helpful in our society. Now this is our main goal.

## Chapter 3

### Requirement Specification

Requirements specifications state what should be finished by a framework. The requirements specification states what should be done all together for the association to satisfy their motivation [1].

#### 3.1 Business Process Modeling

Business Process Modeling Notation (BPMN) is a flow chart technique that models the means of an arranged business process from start to finish. A key to Business Process Management, it outwardly portrays a point by point arrangement of business exercises and data streams expected to finish a procedure [2]. Its motivation is to show approaches to improve productivity, represent new conditions or addition upper hand. The technique has been experiencing an institutionalization push in the previous couple of years and is presently regularly called by a marginally unique name: Business Process Model Notation, as yet utilizing the BPMN abbreviation. It contrasts from Unified Modeling Language (UML) utilized in programming plan [3].

Here we are trying to describe our project's business model using Data Flow Diagram. A DFD indicates what sort of data will be contribution to and yield from the framework, how the information will progress through the framework, and where the information will be put away. It doesn't demonstrate data about procedure timing or whether procedures will work in grouping or in parallel, not at all like a conventional organized flowchart which centers around control stream, or an UML action work process chart, which presents both control and information streams as a bound together model. Figure 3.1 shows the DFD of BPMN in below.

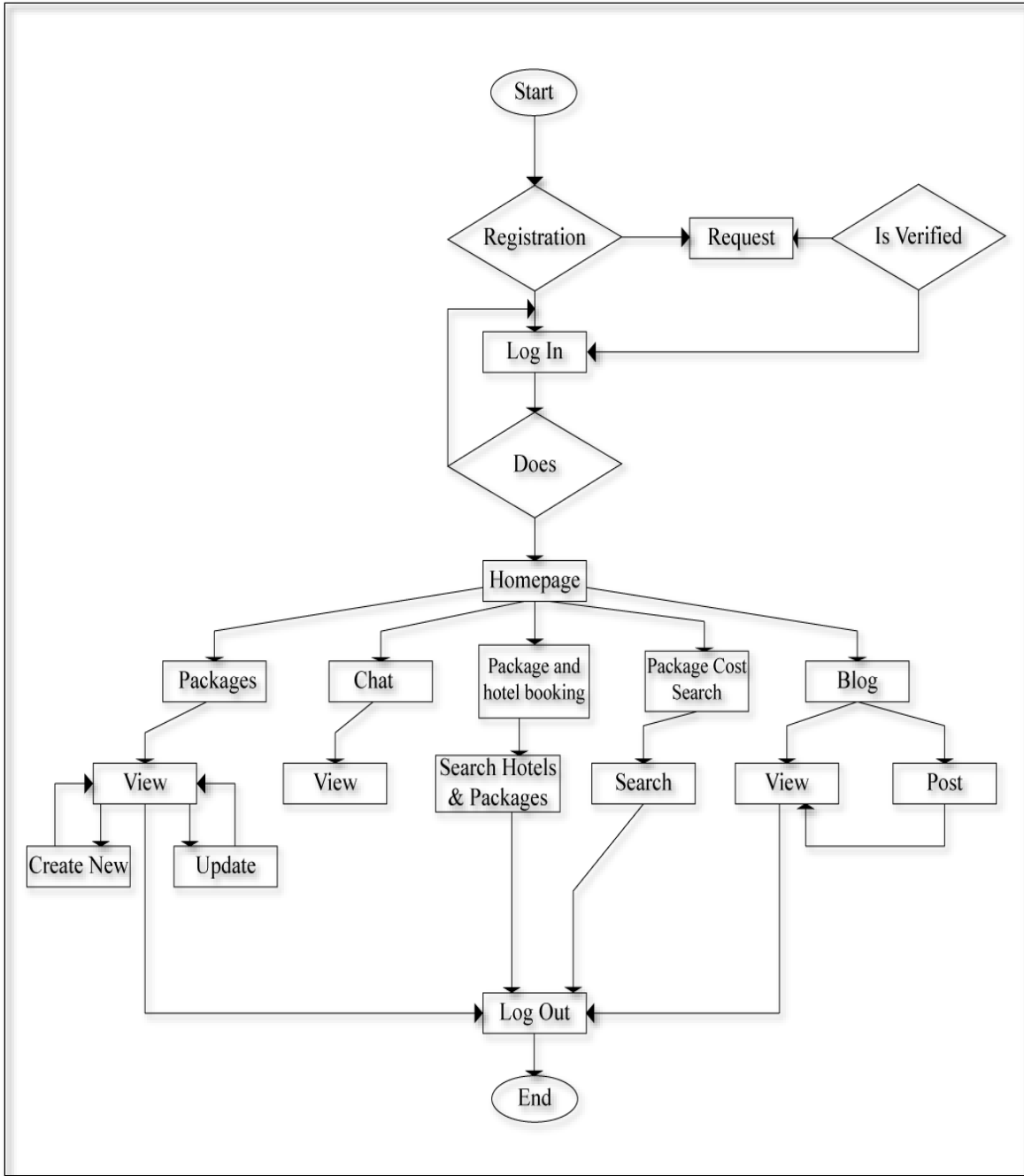


Figure 3.1 - The BPMN of EasyTour.

### 3.2 Software Development Life Cycle (Waterfall)

The waterfall model is a moderately direct successive plan approach for specific zones of engineering design. The Waterfall Model was first Process Model to be presented. It is additionally alluded to as a straight consecutive life cycle show [4]. It is extremely easy to comprehend and utilize. Figure 3.2 is showing the model we used to develop EasyTour.

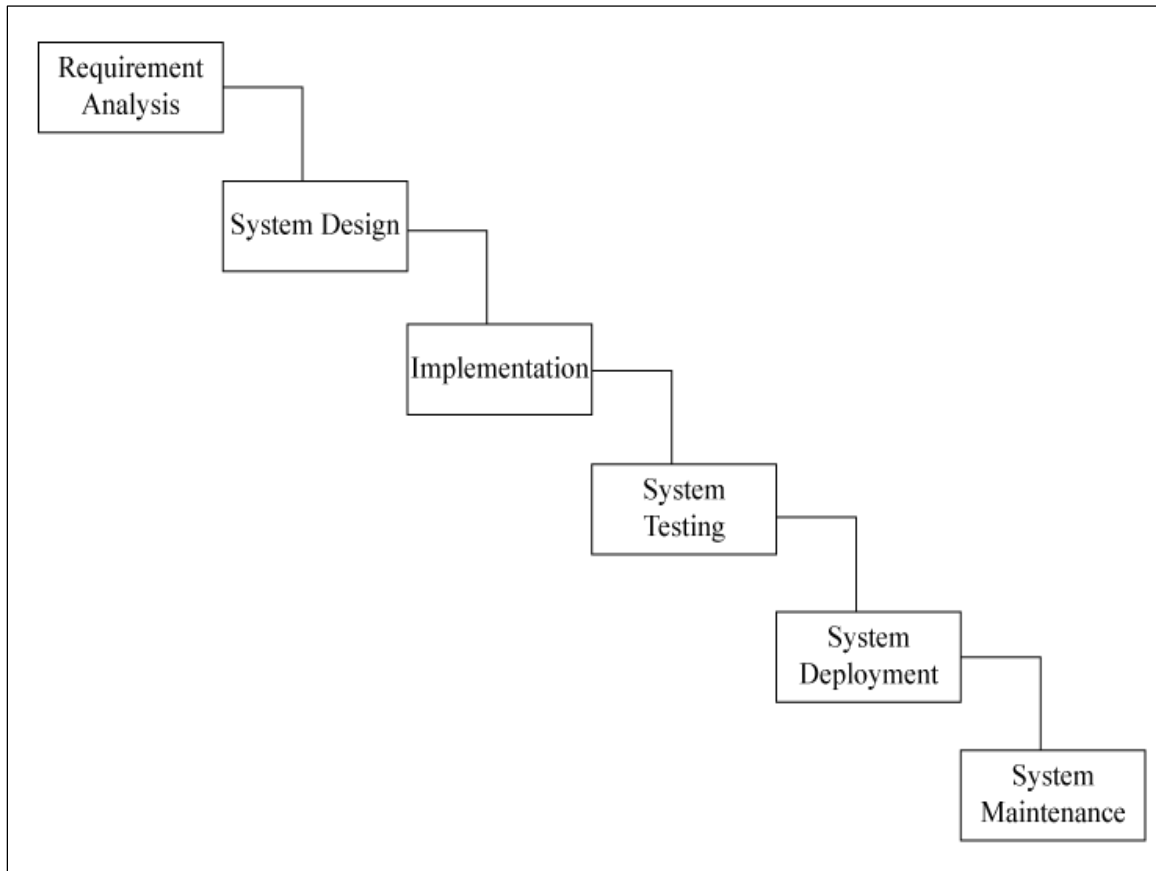


Figure 3.2 – Waterfall Model of the system.

We are additionally attempting to draw a dimension of Waterfall Model as streaming relentlessly downwards through the period of Conception, Initiation, Analysis, Design, Construction, Testing and Maintenance of our framework.

### **3.3 Requirement Collection & Analysis**

Requirements analysis includes visit correspondence with framework clients to decide explicit element desires, goals of contention or equivocalness in prerequisites as requested by the different clients or gatherings of clients, evasion of highlight creep and documentation of all parts of the venture advancement process all the way. Vitality ought to be coordinated towards guaranteeing that the last framework or item complies with customer needs instead of endeavoring to shape client desires to fit the necessities [5].

Requirements analysis is a collaboration that requests a mix of equipment, programming and human components building mastery just as abilities in managing individuals [6].

For the project development process, there are two kinds of requirements. They are functional requirement and non-functional requirement.

#### **3.3.1 Functional Requirement**

Functional requirements are a piece of requirements analysis (also known as requirements engineering), which is an interdisciplinary field of designing that worries the structure and upkeep of complex frameworks. Utilitarian necessities portray the ideal end capacity of a framework working inside ordinary parameters, in order to guarantee the plan is satisfactory to make the ideal item and the finished result achieves its capability of the structure so as to meet client desires. From the perspective of our project, the website has numerous practical necessities as like maintaining database and maintaining server where only admin section person can access [7].

#### **3.3.2 Non-Functional Requirement**

Nonfunctional Requirements (NFRs) characterize framework properties, for example, security, unwavering quality, execution, viability, versatility, and ease of use. They fill in as requirements or limitations on the structure of the framework over the distinctive excesses. Otherwise called framework characteristics, nonfunctional prerequisites are similarly as basic as utilitarian Epics, Capabilities, Features, and Stories [8]. They guarantee the convenience and adequacy of the whole framework. Neglecting to meet any of them can result in frameworks that neglect to fulfill inner business, client, or market



needs, or that don't satisfy compulsory prerequisites forced by administrative or principles offices.

Website's User Interface is also so easy to use and exquisite for magnificent user experience.

### **3.4 Use Case Modeling and Description**

Use case modelling is a useful tool for requirements elicitation. It gives a graphical portrayal of the product framework's necessities [9].

The key elements in a use case model are actors (external entities), and the use cases themselves. In layout, a use case is a unit of usefulness (a prerequisite), or an administration, in the framework. A use case isn't a procedure, or program, or capacity.

The project after careful analysis has been identified to be presented with the following actor.

The actors involved are:

- User
- Admin

#### **Use Case for User**

In the user module is prepared for the users who are the logged in. The admin can accept or delete. The users get their email and password from the register for login in the website. When the users get their login information, and then they login to the website in the user part. They can only see their individual information. The users can see the packages, blog posts etc. They can also write post in the blog section and also can comment anyone's post.

Table 3.1: Use Case Description of User

Use Case Name:	USER
Actor:	User, Admin
Pre-condition:	Create Account
Primary Path:	Enter E-mail Address Enter Password Press “LOGIN” Button
Exceptional Path:	Invalid E-mail Invalid Password

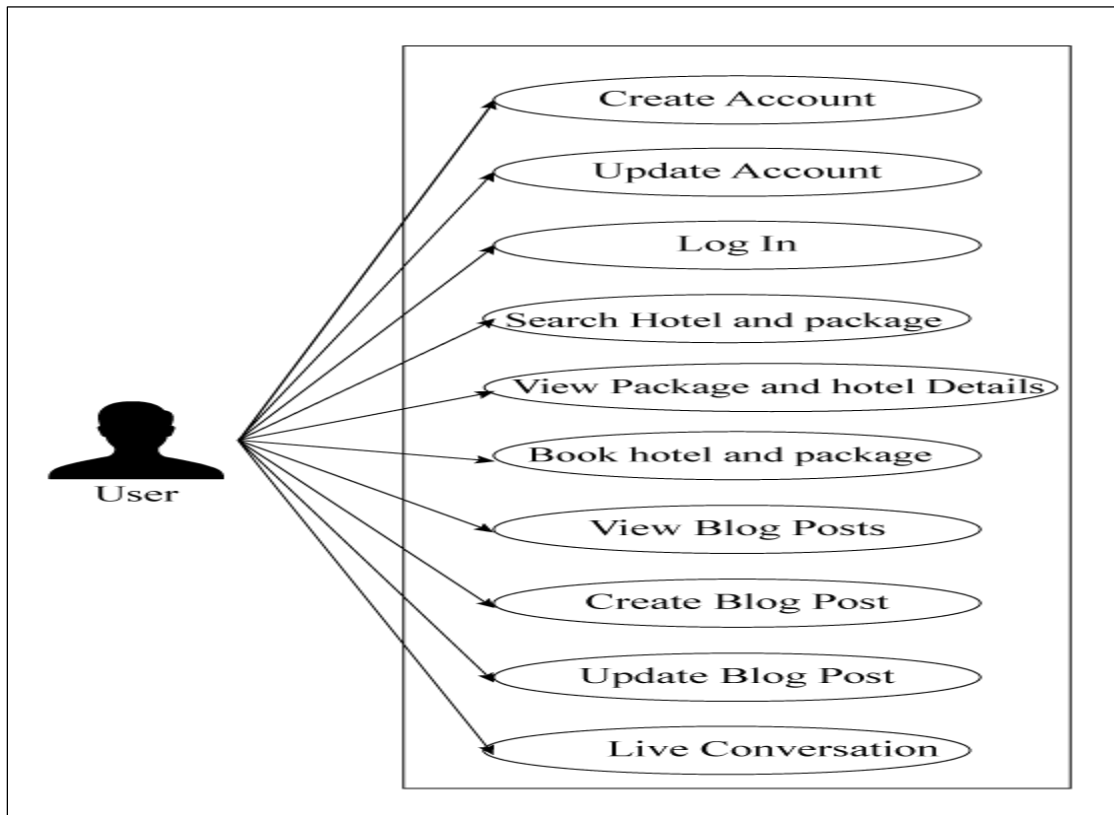


Figure 3.3 - Use Case Modeling for User

## Use Case for Admin

In this module, have mainly three parts in our project. Admin is the people who have to login first then he/she can manage the User, update the full project, remove the profile form user and also can accept the request from users.

Table 3.2: Use Case Description of Admin

Use Case Name:	ADMIN
Actor:	Admin
Pre-condition:	Login

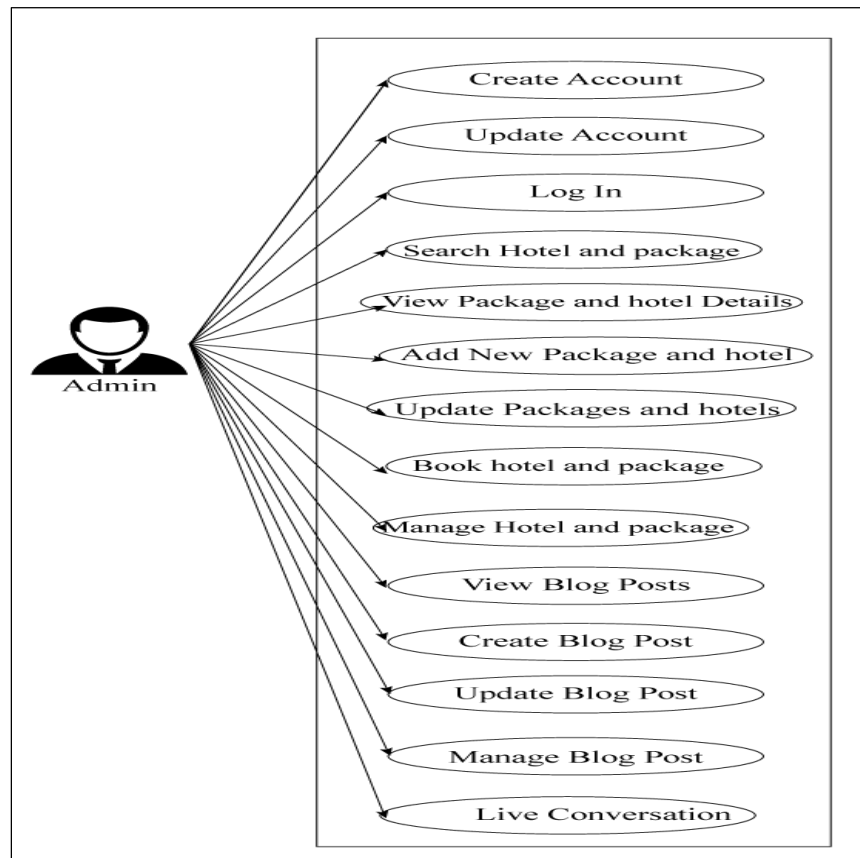


Figure 3.4 - Use Case Modeling for Admin

## Use Case Description

It contains information about full part of the Use case Model shown in the below picture. We have already described about every use case through a table and picture in the above section.

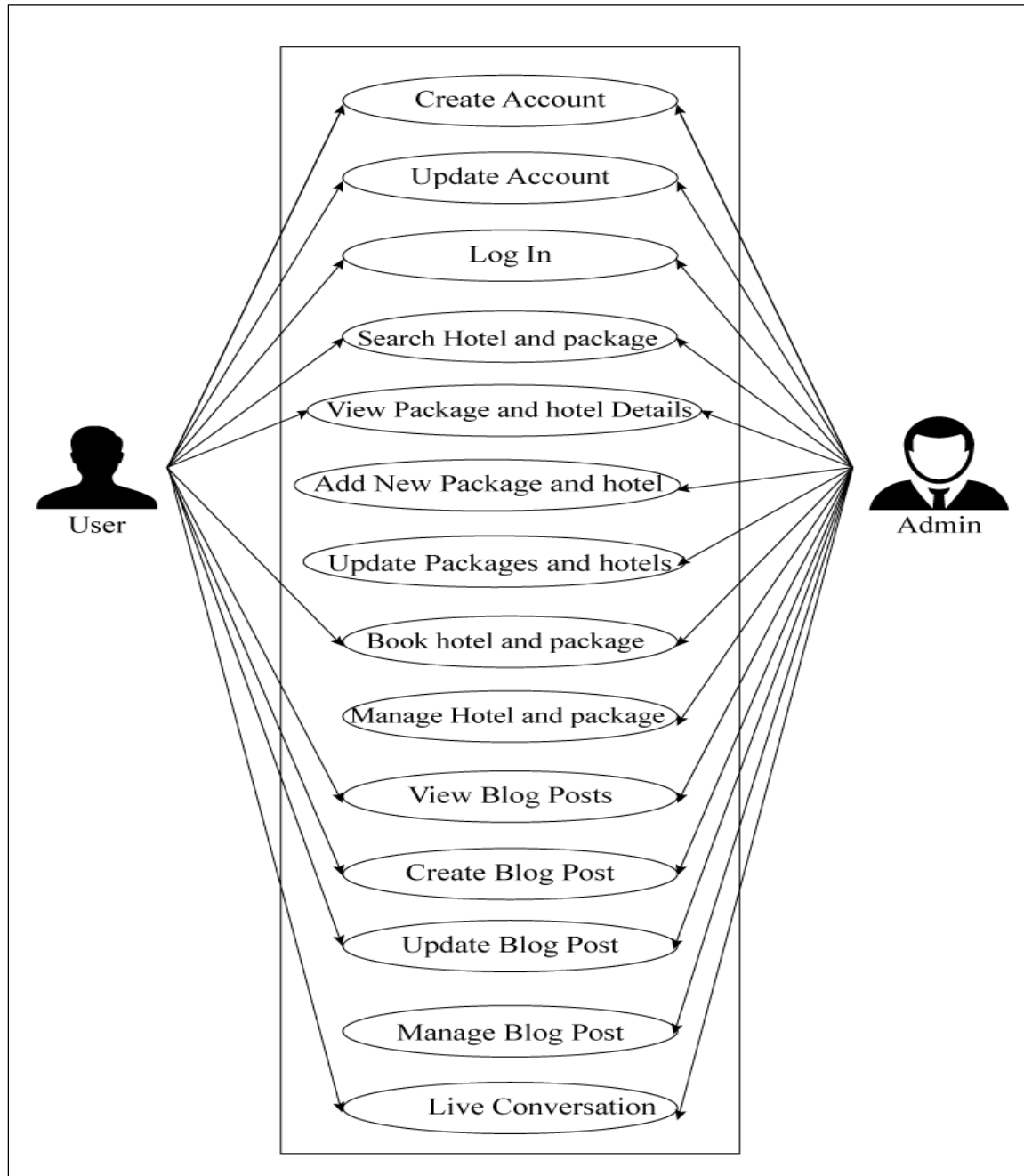


Figure 3.5 - Use Case Modeling of EasyTour

### **3.5 Logical Data Model**

LDM mainly consisted of few elements like, data entities, attributes and keys and relationship between the entities [10]. By which the organization data and business rules is defined and govern the relationship between them. As a database, we use Localhost data base and MySQL as database server.

### **3.6 Design Requirements**

- In our system, we have an authentication for our user. So we have design a registration, login section.
- We design a profile information changed option. User can change his name, create new password and update his /her personal information.
- We design a package create option where only admin can create his/her own events.
- We design a blog section where user can capture his journey related picture's and upload it and write post about his/her journey and other users can comment of this post.
- We design a chatting system for user where they can make conversation with admin for details information.
- We design a searching system where user can search tour and hotel packages from our website.
- We also design booking system where user can book packages and hotels.

We are attempting to fabricate our project as mind boggling free. We consider customers at the point when we design our website. Due to this reason, our website is so easy to understand.

## Chapter 4

### Design Specification

#### 4.1 Front End Design

Nowadays, front-end improvement refer to the piece of the web clients communicate with. Previously, web advancement comprised of individuals who worked with Photoshop and the people who could code HTML and CSS. By and by, designers require a handle of activities like Photoshop and have the ability to code in HTML and CSS, just as JavaScript or JQuery, which is an amassed library of JavaScript [11].

A huge part of all that you see on any site is a mix of HTML, CSS, and JavaScript, which are through and through constrained by the program. For example, in the event that you're using Google Chrome or Firefox, the program is what unravels most of the code in a path for you to see and with which to convey, for instance, printed styles, tones, drop-down menus, sliders, outlines, etc. All together for most of the work, nonetheless, there must be a comment the front-end; this is the spot the backend turns out to be conceivably the most vital factor.

#### 4.2 Architecture of Front End User

In show, we have numerous cool devices that may help us in a cutting edge front-end creating work process. So at the season of confronting focuses 1 and 2 we revealed to ourselves that we required a breakpoint-based CSS engineering which could help us in various gadgets and work area sizes. However, it was likewise known to us that such gigantic measure of CSS and records could be somewhat unsanitary thus inconsistent with point 3. Therefore, I settled on a choice to begin utilizing a CSS preprocessor. The PHP Architecture Figure is show below in figure 4.1.

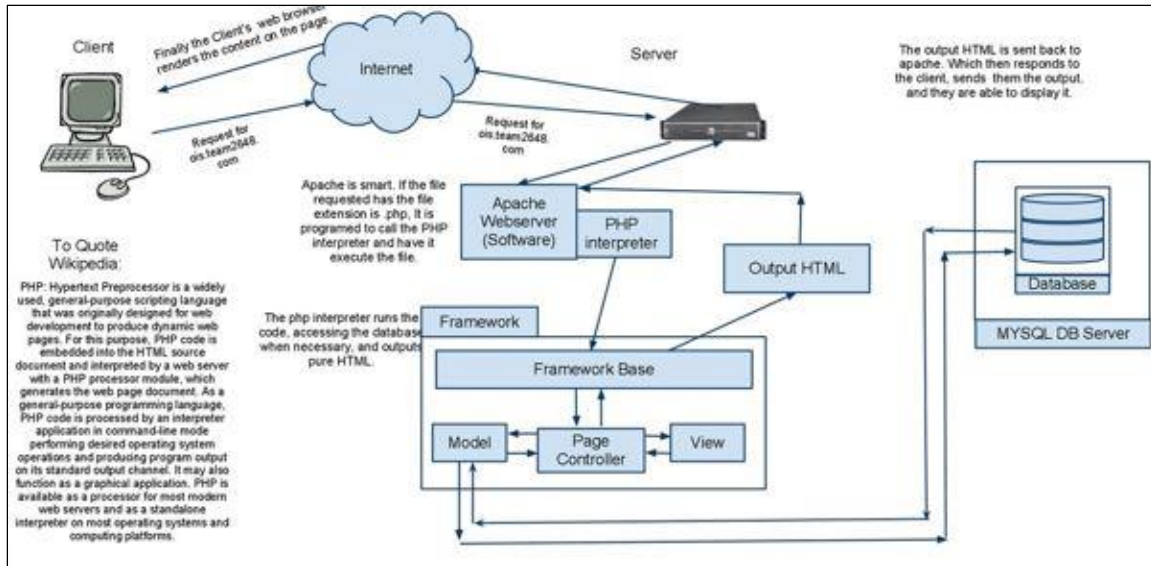


Figure 4.1 – PHP Architecture

### 4.3 Back End Design

The back-end is likewise called the server side plan. It controls the conduct of the site upon a move is made. The back-end has fundamentally three sections, for example, server, database and application [12].

Picking a privilege php advancement structure to build up a web application for the business can be a troublesome errand in light of the fact that there are such huge numbers of discretionary accessible from the previous couple of days we at. In the backend plan, we use MySQL devices for our site. MySQL is the well-known devices for database management system.

### 4.4 Interaction Design and UX

For User Experience (UX) design we have tried our best for designing a simple and easy website. We have endeavored to give a few fantastic and well experience by using our website. We keep our site excessively basic and furthermore effectively for better understanding, feelings and execution for the client of using our website. Hope our systems information is secured and helpful for the user [13].

To Design the website all the pages like homepage, registration page and all other pages are given below:

#### 4.4.1 Homepage

This is the homepage. This page is also known as main page and this page is the main age of the website. This page demark all the information which are related to the project.

- Registration
- Login
- Tour Package
- Hotel Package
- Booking Tour Package and Hotel
- Create Blog Post
- Live Conversation
- Search

In figure 4.2 shown the Home page of EasyTour that is the main interface of our project.

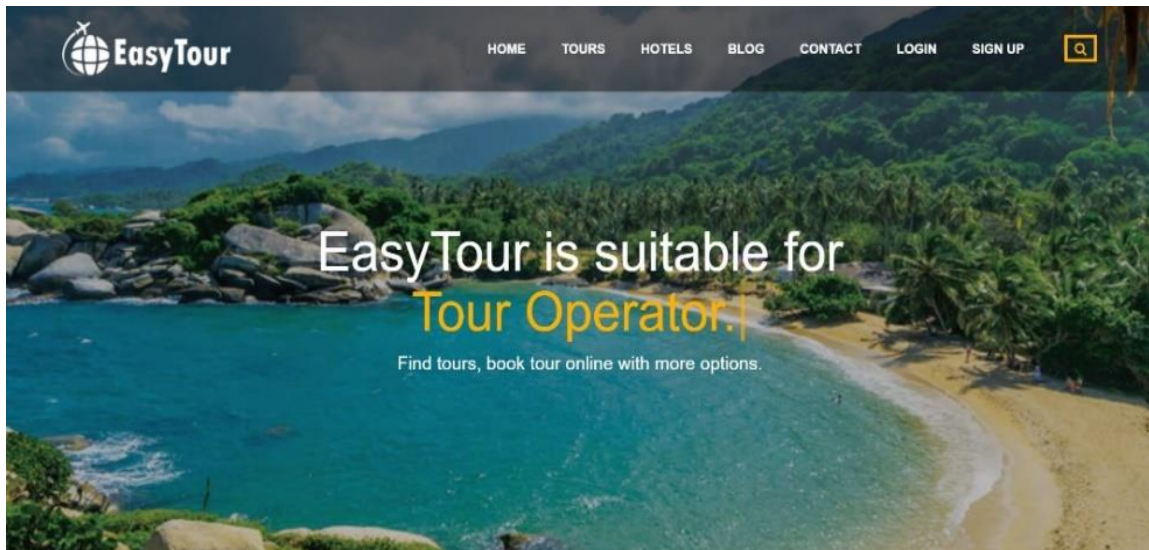


Figure 4.2 – Screenshots of Homepage of EasyTour.

#### 4.4.2 Registration

The page that incorporates the data of the user who need to register is known as the registration page. By tapping on register button a user can register the account shown in figure 4.3 below.



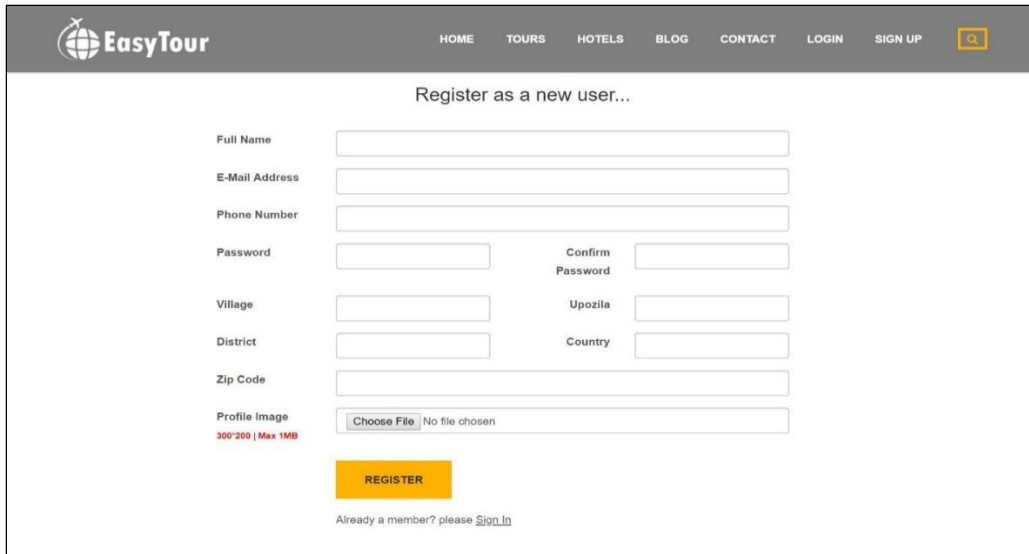


Figure 4.3 - Screenshot of Registration page of the website.

#### 4.4.3 Login

After Registration a user can login to the website by giving the correct Email and password which is clearly shown in figure 4.4 below.

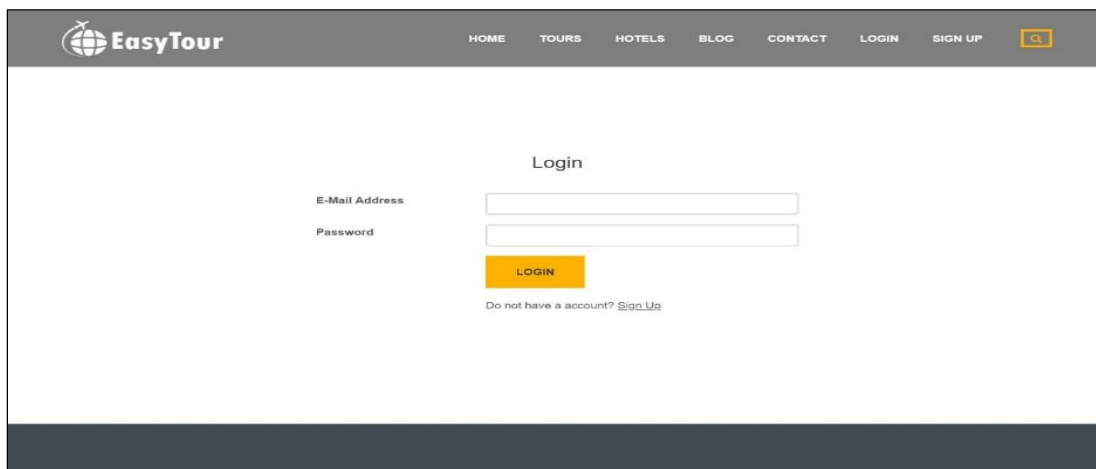


Figure 4.4 - Screenshot of Login page of the website.

#### 4.4.4 Tour Package

The all packages to visit tour spots that is shown in Figure 4.5 which will suggest the user latest places that are trending at that time. Based on popularity of the places, the package list is being generated.

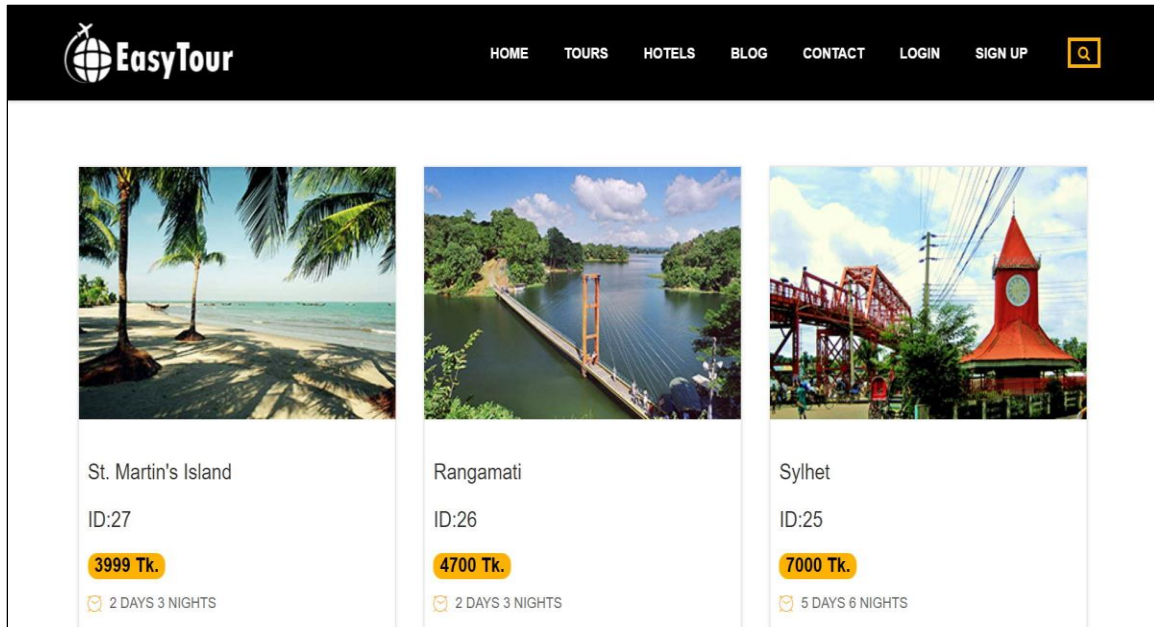


Figure 4.5 - Screenshot of Tour Packages of EasyTour.

In it all of the information about a tour such as where we are going, picture of this place, title of the package, what things are included in this package, total cost of the tour, how much days we travel, starting and ending date etc.

For uploading tour packages in the website admin can add all of the tour packages from admin panel which is clearly shown in figure 4.6 below.

Here Add Tour Details

Tour Package Name  
Package Name

Days  
How many days

Night  
How many night

City  
City

Country  
Country

Amount  
Ammount

Description

Profile Image  
300\*200  
Max  
1MB

Choose File No file chosen

Submit

Figure 4.6 - Screenshot of Add Tour Packages in Admin Panel of EasyTour.

#### 4.4.5 Hotel Package

The all Hotel Packages which is related with our tour packages is shown in Figure 4.7 which will suggest the user to book hotels that are including to our packages.

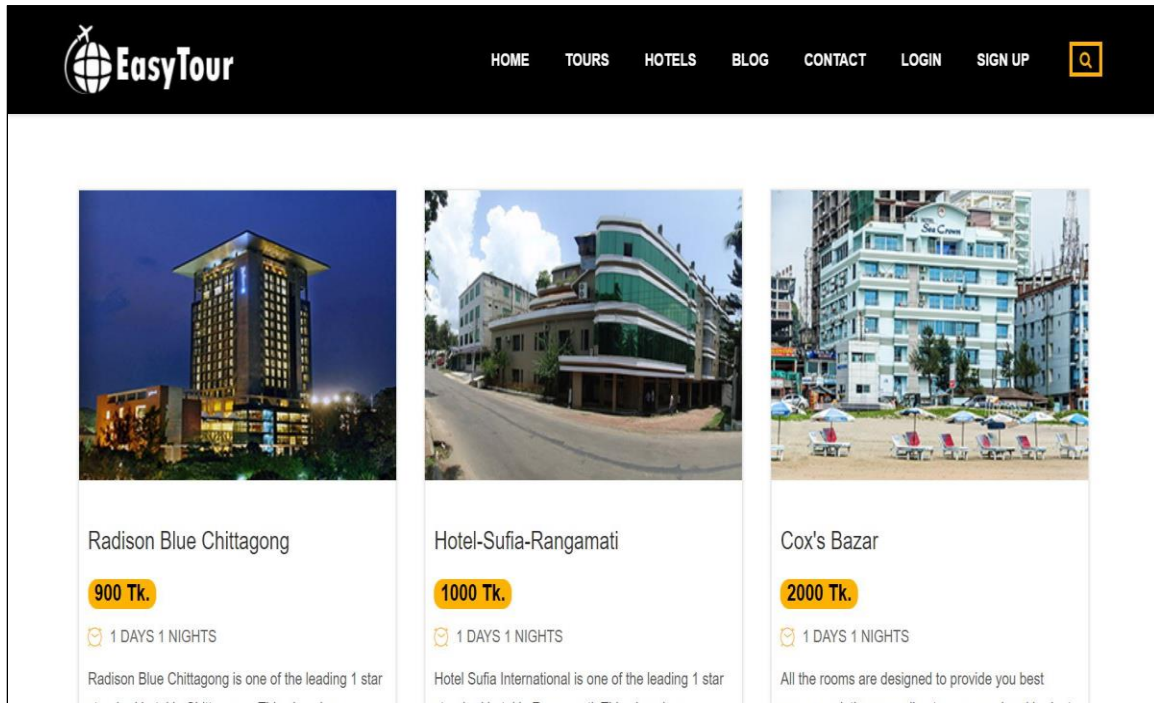


Figure 4.7 - Screenshot of Hotel Packages of EasyTour.

In it all of the details of a hotel as like hotel name, its address, how much its cost, how categorized rooms it has etc. has included all hotel packages.

For uploading hotel packages in the website admin can add all of the hotel packages from admin panel which is clearly shown in figure 4.8 below.

Here Add Hotel Details

Hotel Name

Package Name

City

Country

Days

Night

Amount

Description

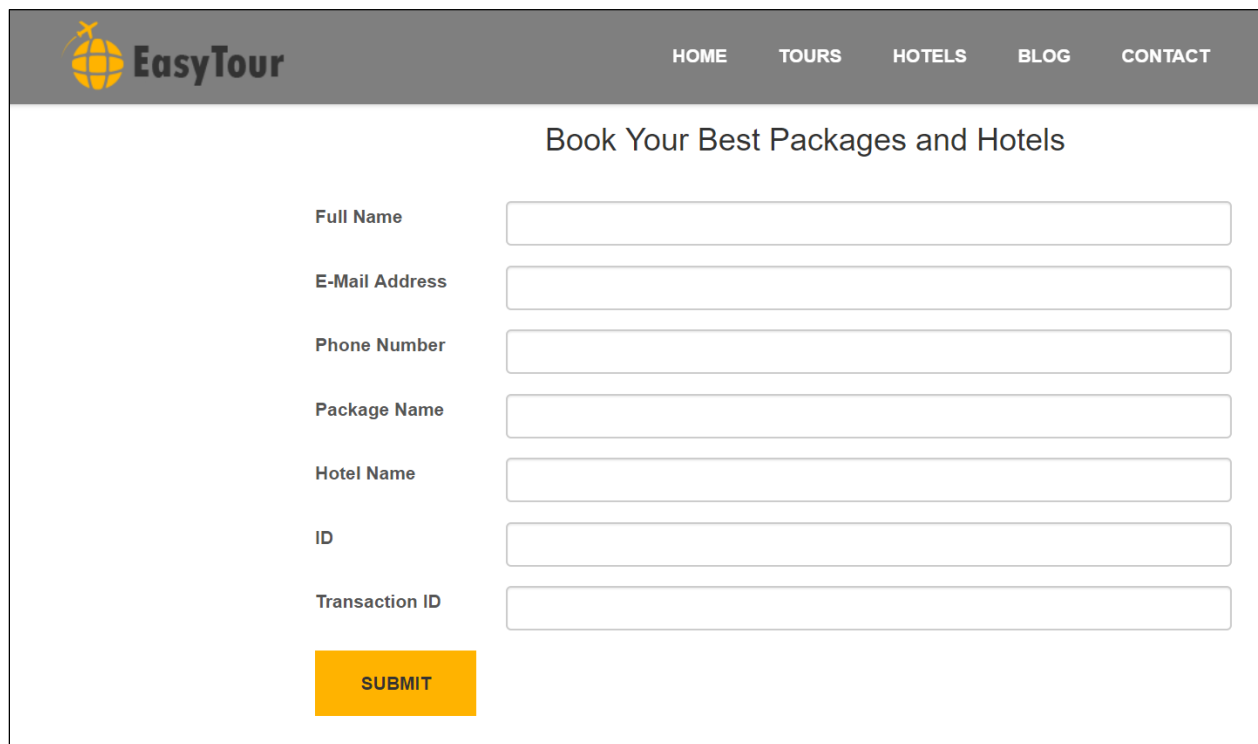
Profile Image  
300\*200  
| Max  
1MB

No file chosen

Figure 4.8 - Screenshot of Add Hotel Packages in Admin Panel of EasyTour.

#### 4.4.6 Booking Tour Package and Hotel

User can also book tours and hotels if they want from our website that shown in figure 4.9 below.



The screenshot shows the EasyTour website's booking interface. At the top, there is a navigation bar with the EasyTour logo and links for HOME, TOURS, HOTELS, BLOG, and CONTACT. Below the navigation bar, the main heading reads "Book Your Best Packages and Hotels". The form contains several input fields: Full Name, E-Mail Address, Phone Number, Package Name, Hotel Name, ID, and Transaction ID. A yellow SUBMIT button is located at the bottom of the form.

Figure 4.9 - Screenshot of Booking package and hotel of EasyTour.

When any registered user are interested to book a package of us he/she need to put his/her name, email address, phone number, name of a package which he/she wanted to book, hotel name also, and put the specific id number of the tour package and put transaction id for confirming his/her payment via bkash or rocket.

#### 4.4.7 Create Blog Post

In this part user and admin both can create blog post but user must need to be a registered user first that is shown in figure 4.10 below.

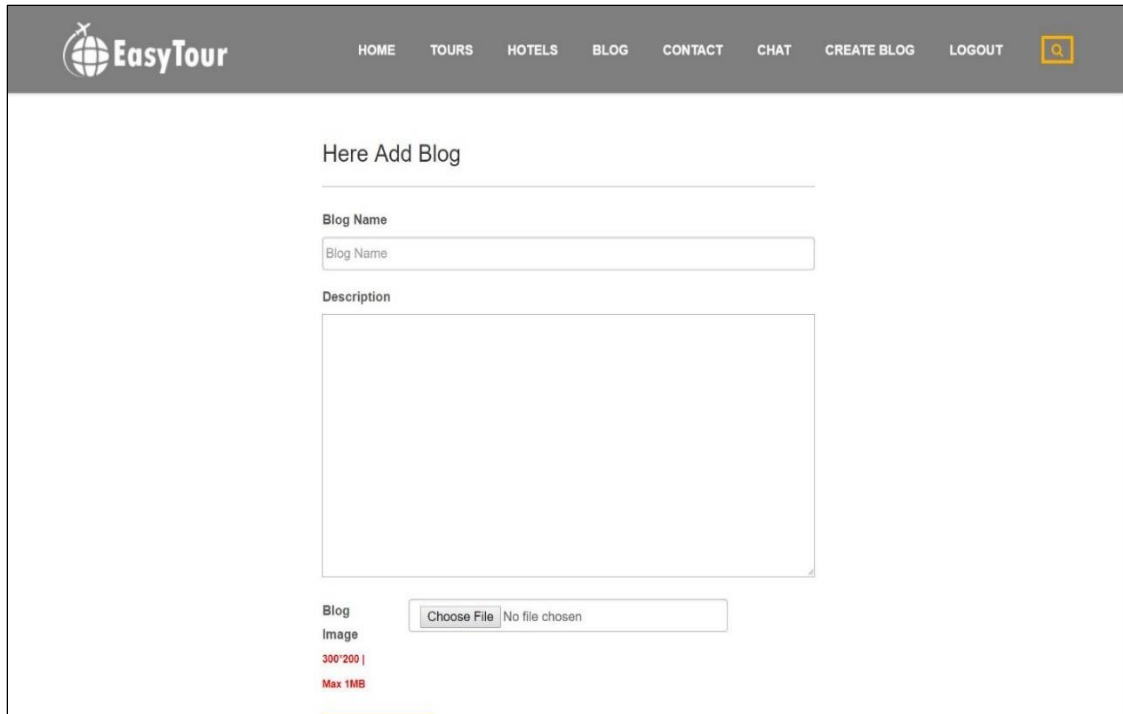


Figure 4.10 - Screenshot of Add Blog Post of EasyTour.

All of the created blog in our website which will be created by users and admin will be appear on the blog section shown in figure 4.11 below.

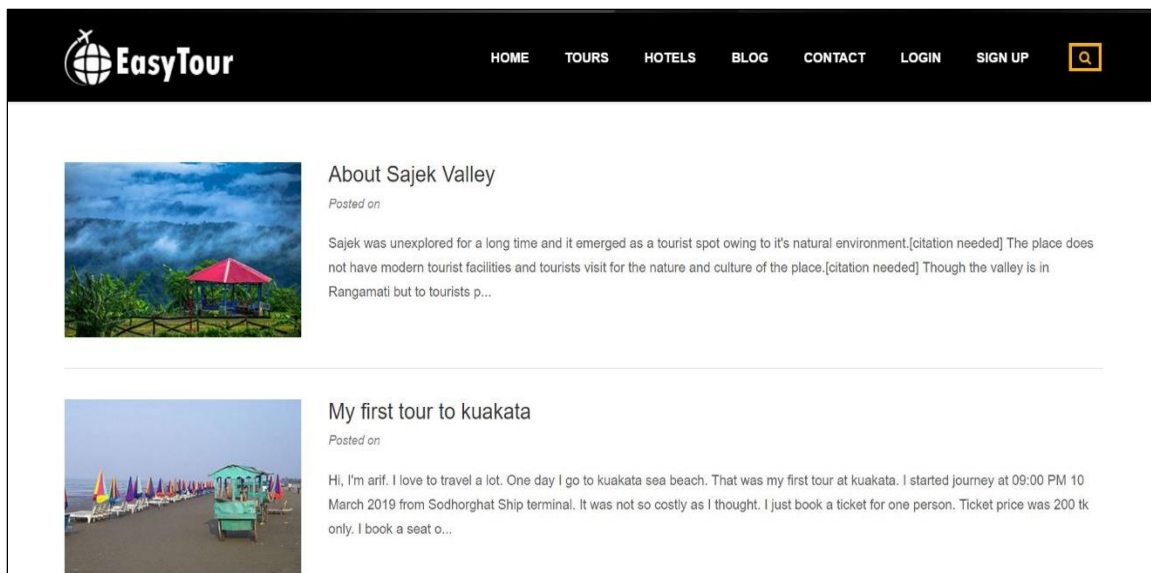


Figure 4.11 - Screenshot of All Blog Post of EasyTour.

#### 4.4.8 Live Conversation

Users can conversation with admin by this live chat feature. Users can also discuss about tour related content in this chat option. That shown in figure 4.12 below.

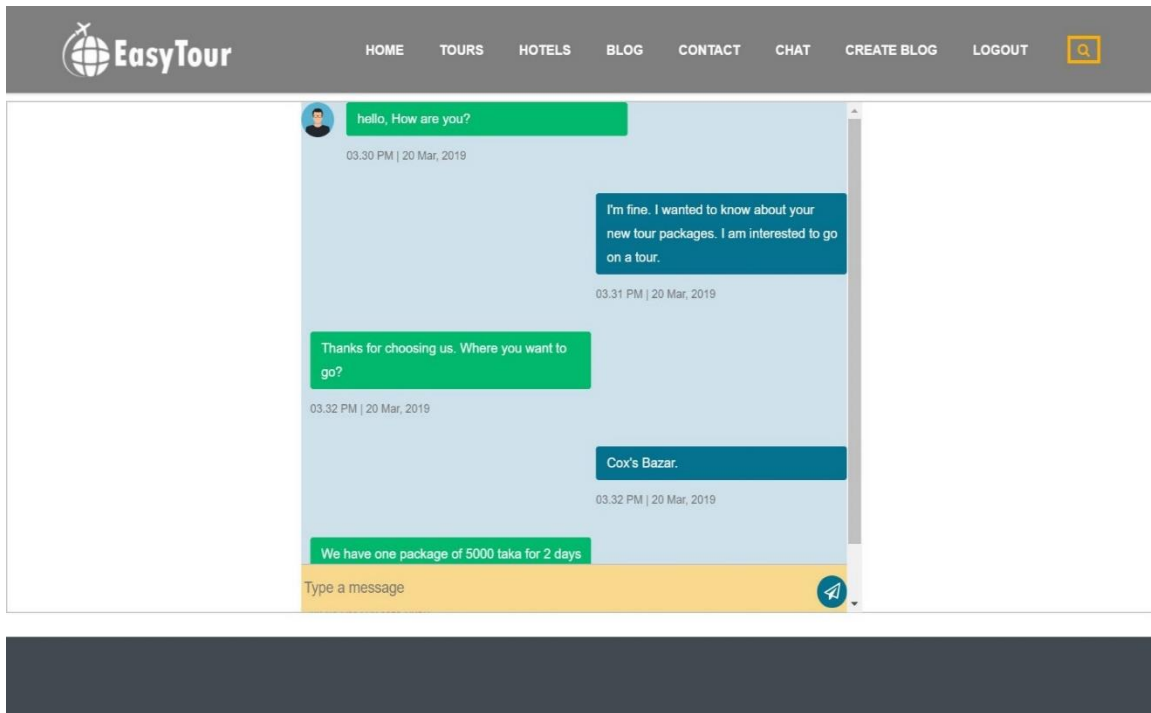


Figure 4.12 - Screenshot of a conversation between user and admin of EasyTour.

#### 4.5 Implementation Requirements

To create our website, we used different types of implementation tools, attributes and components. Making this website easily accessible and useful to people has become possible with the help of these tools. We use HTML, CSS, BOOTSTRAP, JAVASCRIPT, RAW PHP and MySQL database server for implementation of our whole project.



# Chapter 5

## Implementation and Testing

### 5.1 Implementation of Database

The usage arrange is the spot the engineers execute the database management system into the equipment he is going to utilize, upgrade the database to keep running on various hardware and programming stages and make the database and weight the data. This is the screenshot of our databases of our project shown in figure 5.1 below. Here include the all types of data which will be the record of our background system also. We works in phpMyAdmin for our databases set.

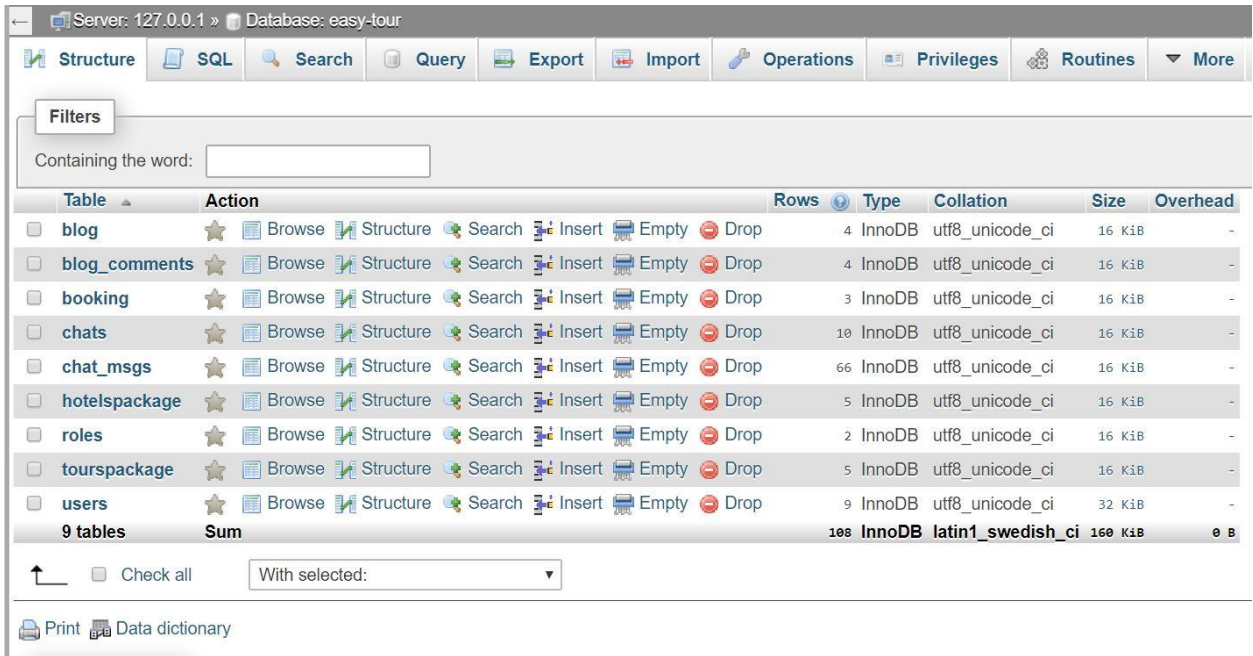


Figure 5.1 - Screenshot of the database table of PhpMyAdmin of EasyTour.

## 5.2 Implementation of Front End Design

To comprehend the front end, we likewise need to know the back end. The front end, else called "user side" writing computer programs, is the thing that occurs in the program. Its beginning and end the users sees and connects with. The back end, likewise called "server-side" programming, occurs on the server and the database.

### **i. Scalability and Flexibility**

The MySQL database server gives a definitive in adaptability, brandishing the ability to deal with profoundly inserted application with an impression of just 1MB to running enormous information stockrooms holding terabytes of data. Stage adaptability is a stalwart component of MySQL.

### **ii. High performance**

An interesting stockpiling motor design enables database experts to arrange the MySQL database server explicitly for specific applications, with the final product being astonishing execution results.

### **iii. High Availability**

Shake strong unwavering quality and consistent accessibility are signs of MySQL, with clients depending on MySQL to ensure nonstop uptime. MySQL offers an assortment of high-accessibility alternatives from rapid ace/slave replication setups, to specific Cluster servers offering moment failover, to outsider merchants offering novel high-accessibility answers for the MySQL database server.

### 5.3 Testing Implementation

Table 5.1 – Table of Test Case of EasyTour.

Test case	Test Input	Expected Outcome	Actual Output	Result
1. Registration	Fill all field with valid information	Show that registration successful.	Show that message.	Passed.
	Keep some field blank	To warn that must be fill all field.	Show that warning.	Passed
2. Login	Login with valid data.	To warn that Successfully login.	Show that message.	Passed.
	Login with invalid data	To warn that invalid email or password.	Show that warning.	Passed
	Keep blank email and password field.	To warn that must be fill all field.	Show that warning.	Passed.
3. Tour Package Create	Create new tour packages with proper information.	Create new Tour package and show in list.	Show the created Package successfully.	Passed.
4. Hotel Package Create	Create new hotel packages with proper information.	Create new Hotel package and show in list.	Show the created Package successfully.	Passed.
5. Create Blog Post	Create new blog post for both user and admin.	Create new Blog Post and show in list.	Successfully created and show blog post.	Passed.

	Do comment below of every blog post.	Type comments of every blog post and show it in every blog post below.	Successfully comment in every blog post and show it in every post below.	Passed.
6. Booking package and hotel	Fill all field with proper information	Show that successfully booked.	Successfully show the message.	Passed.
	Keep some field blank and hit booking button	To warn that must be fill all field.	Successfully show the warning.	Passed.
7. Payment	Fill all fields with valid data.	Show submitted successfully.	Successfully show that message.	Passed.
	Keep some field blank and press confirm button.	To warn that must be fill all field.	Successfully show the warning.	Passed.
8. Live Conversation	Doing live conversation between user and admin.	Chat and show conversation history.	Successfully chatting between user and admin and show the chatting history.	Passed.
9. Searching	Typing keyword and press search button.	Search result showing tour packages and hotels	Successfully show the search result list.	Passed.

	Keep the search bar blank and press search button.	Search result show nothing.	Successfully show nothing.	Passed.
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#### 5.4 Test Result and Report

Test report is needed to reflect the result of testing the application in a formal way, which gives an opportunity to estimate the result of testing quickly. In table 5.1, we shown the experiment, test input, anticipated yield, and genuine yield lastly we discover our expected results for our website. The test outcome was very fruitful. The user satisfies to using our website. Our expectation will be that user can easily use and understand our application as a better user interface.

## **Chapter 6**

### **Conclusion and Future Scope**

#### **6.1 Discussion and Conclusion**

Our website has been successfully implemented. For implementing our website, we tested the website with several devices, we saw that our website worked properly and it also give the required data from database server, create tour packages, create hotel packages, create blog, live conversation and search was successful.

The design is very easy for all. The UI is so simple and not looking like as a complex view. User can easily use our website. We tried our best to complete all requirements of our website. We hope that customers will use our website and will get proper services.

#### **6.2 Limitations of Our Website**

As like every website, our website has also some limitation. We will overcome those limitations in future. Here, we want to mention one of the main limitations of our application are given below:

- The website requires internet connection. That means without an active internet connection, the user won't be able to sync our website.

#### **6.3 Scope for Future Developments**

We try our best for developing our website in present time. If we find any scope for developing in future, we want to develop and change something of our website.

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# Appendix

## Appendix A: Screenshot of web page:

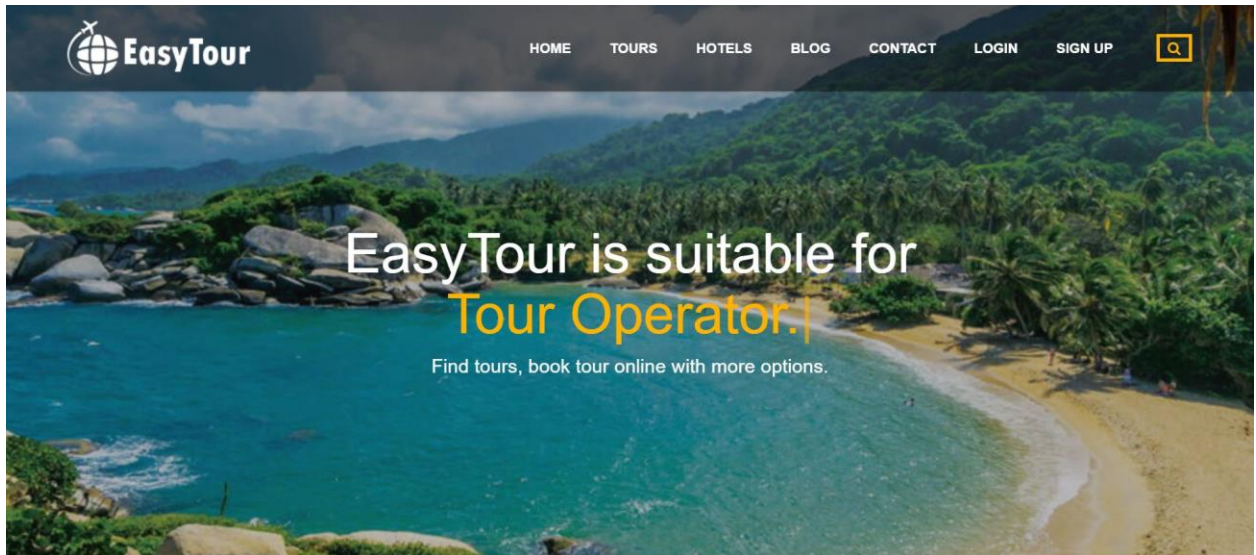


Figure 6.1 – Screenshots of Homepage of EasyTour.

## Appendix B: Screenshot of Database:

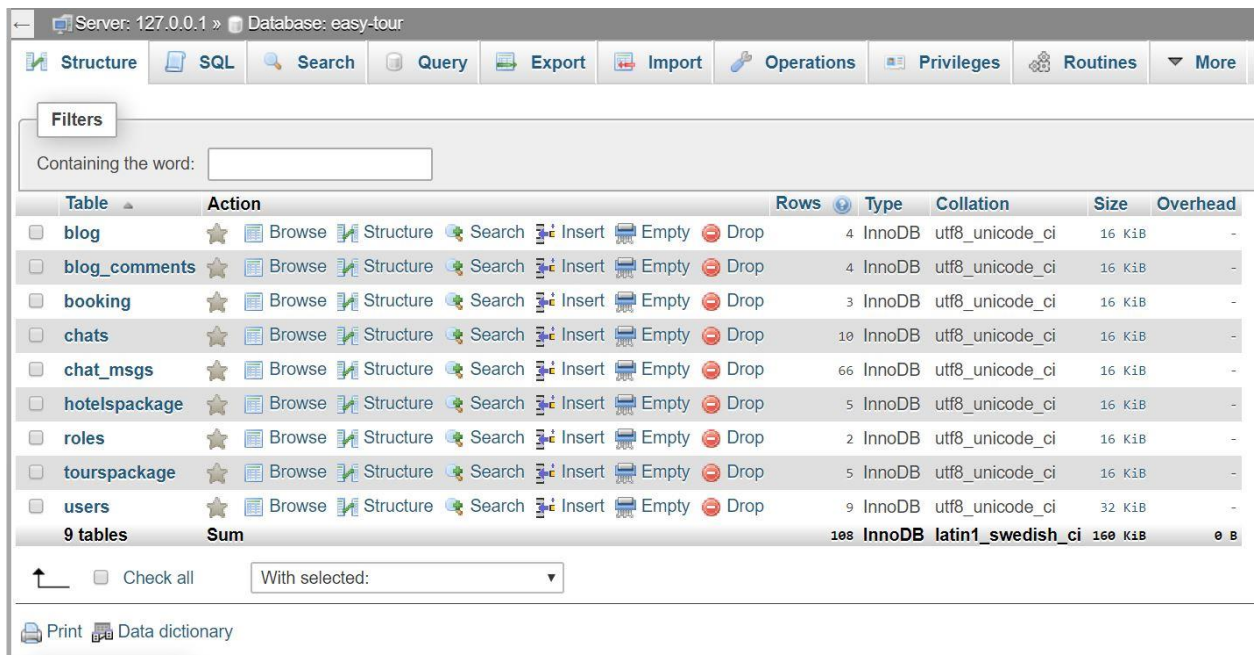


Figure 6.2 - Screenshot of the database.



# A WEB BASED PROJECT ON EASYTOUR

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