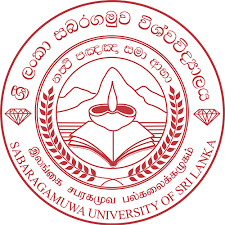
**FACULTY OF GEOMATICS**

**CEYLON TRAVEL GUIDE FOR FOREIGNERS**



Supervisor’s Name: Prof. R.M.K.T. Ratnayake Date of Submission: -04-2022

**CEYLON TRAVEL GUIDE FOR FOREIGNERS**

Group 01

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**April 2022**

**Declaration**

We declare that this report is our own work and has not been submitted in any form for another degree or diploma at any university or other institution of tertiary education. Information derived from the published or unpublished work of others has been acknowledged in the text and a list of references is given.

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**Dedication**

We dedicate this project to our Web Based Developing Techniques theory lecturer Miss. P.B.Shehani Ariyathilake and to Web Based Developing Techniques practical lecturer Mr. Dilshan Jayathilake who were brought us to success of our Web Based project. A special feeling of gratitude to our supervisor Mr.R.M.K.T.Rathnayake whose gave a lot of information about our project works.

We dedicate this project all the parents of all the members of our team who are backbone of our lives. We also dedicate this project all the colleagues of 21st batch of Faculty of Geomatics who were helped every difficult situation we faced when doing our project works.

This project is dedicated to all the people who have never failed to give us moral support, for giving all our needs during the time we developed our web based development techniques project “Fly to Ceylon” and for teaching us that even the largest task can be accomplished if it is done one step as a time.

**Acknowledgements**

Our Sincere efforts have made me to accomplish the task of completing this project. I have taken effort in this project. However, it would not have been possible without the kind support and help of many persons. We would like to express our gratitude and appreciation to all those who gave us the possibility to complete our web based development techniques project “Fly to Ceylon”.

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We would like to give our appreciation to all of our friends for their help and advices. Our heartfelt thanks to all the unnamed names who supported us for our web based development techniques project “Fly to Ceylon”.

**ABSTRACT**

The basic premise for us to undertake this project is that our country, which has a high tourist attraction, does not have a smart system to manage tourism activities. Through our project, we set the basic background for foreign tourists to easily organize their Sri Lankan tour.The management system of our tourism industry is at primary level. Sometimes the traveler/foreigner does not know where the place that he or she is staying and decide it after departing in the airport. Most of the times traveler/tourist asks what he or she need from the third parties and they may mislead foreigners for their own advantages. Recently we could hear that kind of news. The main disadvantage of these things is the foreigner get miss understanding about our country and it may affect badly for the tourism sector. To overcome this problem and to develop the tourism sector we introduce the modern solution that is “Fly to Ceylon” web application/site. The application provides the following facilities to the users.

We focus to provide the best quality services to the tourists and develop the Sri Lankan tourism industry through our services And Transforming the Sri-Lanka into a primary country for tourism in the South Asian region.

So we analyzed this problem and studied the steps and methods required to reach the solution. With our level as we are year II semester II students of Faculty of Geomatics, we learned HTML, JavaScript, PHP, MySQL, XML, Java, CSS lessons in Web Based Developing Techniques subject to offer a smart solution for foreign tourists from the beginning of their journey to their return home through our web site. Our system consists mainly of two users as an admin and a tourist. Admin system maintenance is in progress. Tourist user organizes his tour through our system. We incorporate all the necessary data into the database give final application with attractive interfaces.

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**Chapter 02**

**Analysis and Design**

**2.1 Introduction**

Fly to Ceylon is an all-included place that provides the best quality services to the tourists and develops the Sri Lankan tourism service. We will believe it transforms Sri Lankan tourism industry to the next level.

Analysis and Designing section is involved with breaking down of system to identify its functions, roles, and the environment in which it will be expected to operate. In here, we discuss project plans, design models and output functions.

This is a process of collecting and interpreting facts, identifying the problem. The purpose of developing the model is to improving the system model and ensure that all components of the system work efficiently. There are few sub topics discussed in analytics and design.

**2.2 Analysis**

**2.2.1 Introduction**

**2.2.1 Functional Requirements**

**2.2.2 Nonfunctional Requirements**

**2.2.3 Modules**

**2.3 Design**

**2.3.1 Introduction**

Every developer is trying to make the site shiny, fresh and fast loading however; it requires a lot of collaboration and effort. So, pre-design is the major thing. It’s a piece of work that needs a Hauge effort. In pre design part, we are going to discuss our flow of web site and basic design plans of our application.

**2.3.1 Methodology**

The following methodology is provided in this stage.

We use to develop a travel guide (Travel management system). Tourists will be able to get information by visiting this site and they can manage their whole tour to Sri Lanka using this site. All information are updated into a database. Database is developed using MySQL.Then, HTML and CSS are used to develop web site content. Afterwards, we use to connect the database to our website using PHP.

Front end: HTML, CSS, JavaScript

1. HTML: HTML is used to create and save web documents. Notepad/Notepad++.

2. CSS: (Cascading Style Sheets) To add an attractive layout and develop web pages.

3. JavaScript: It is a programming language, commonly used with web browsers so we hope to use it for programming purposes.

Back end: PHP, MySQL

1. PHP: Hypertext Preprocessor (PHP) is a technology that is used to create dynamically generated web pages, in

HTML. We hope to use PHP open-source software.

2. MySQL: database is created using MySQL.

The data are collected using surveys which have been done before (we use the internet to take information).

**2.3.2 Flow of website**

Firstly, you can enter the website at <www.flytoceylon.com> through your favorite internet browser. Then you can experience most of the features as a guest or create an account. (Pro features are limited for account holders.)

If you are a guest, you can access the gallery, reviews and chose a given package; do the payment and visit Ceylon. There are two ways to visit Ceylon by a fast and simple methods.

* Booking an airline and go to choose a default package. then end with the payment.
* Choose a default package and end with the payment.

Other registered users can create their own packages and enjoy their tours effortlessly. There are few customization tools on the site. Some of them are visiting places, travel guides, transportation and hotels. After the custom package selection, it allows for payment.

**2.3.3 Use Case Diagram**

A use case diagram can summarize the details of system’s users and their interactions with the system. Use cases specify the expected behavior, and not the exact method of making it happen. Use case specified and denoted textual and visual representation.

Traveler – Manage profile, Chat manage, Feedback, Search / view transport, Sign up, Log in, Search / view place, Search / view package, Make payment, Log out

Travel Guider – Chat manage, Feedback, Sign up, Log in, Log out

Administrator - Manage profile, Verify, Add package, Add transport, add place, acknowledgement

**2.3.4 E-R (Entity Relationship) Diagram**

ER diagram means entity relation diagram. It also known as that displays the relationship of entity sets stored in a database. It helps to understand the logical structure of the database. ER is describe a preview of how all your tables should connect, what fields are going to be on each table.

There are nine entities in the database. They are Hotel, Destination, Airline, Transportation, Admin, Offer, Package, Customer and Payment.

Entities have few attributes as below.

Hotel – Hotel\_Name, Telephone, Price, Date, Hotel\_Rank, Hotel\_ID

Destination – Destination\_Name, City

Airline – Airline\_ID, Airline\_Name, Telephone, Date

Transportation – Vehicle\_type, Price\_per\_1km, Telephone

Admin – Admin\_ID, Name, Password, Email, Telephone

Offer - Offer\_ID, Offer\_Condition, Offer\_Detail

Package – Package\_ID, Package\_Name, Package\_Details

Customer – Customer\_ID, Email, Country, Telephone, Review, Customer\_Name

Payment – Payment\_Method, Payment\_ID, Amount, Date\_of\_Payment

**Chapter 03**

**Implementation**

**3.1 Introduction**

Under this Implementation Chapter will focused on actual implementation process carried out in order to implement the proposed system to real world application. Technology, software environment, Hardware interface, Communication Interface and Product Function will be disused under this chapter.

**3.2 Technology**

The designing part of the proposed system is divided in to two parts. First one is Front End designing and the Second one is Back End designing. The Front-End Designing was done by using PHP, Bootstrap, HTML, CSS and Jscript. The Back End designing part was done using PHP and MySQL.

**3.2.1 HTML (Hyper Text Markup Language)**

HTML is the standard markup language for creating Web pages. HTML describes the structure of Web pages using markup. Page layout has been designed in HTML. HTML elements are represented by tags.

**3.2.2 CSS (Cascading Style Sheets)**

CSS is a style sheet language used for describing the presentation of a document written in a markup language. CSS is used for all the designing part.

**3.2.3 JAVA-SCRIPT**

JavaScript is a lightweight, interpreted programming language. It is designed for creating network-centric applications. It is complimentary to and integrated with Java. JavaScript is very easy to implement because it is integrated with HTML. It is open and cross-platform. All the validation task has been developed by JavaScript.

**3.2.4 PHP (Hypertext Preprocessor)**

PHP is a web development-oriented general-purpose and open source scripting language. PHP is strong tool for create dynamic and interactive Web pages. PHP is the widely-used, free and efficient for website development.

**3.2.5 MySQL**

MySQL is a relational database management system is based on structured query language (SQL). SQL is a language programmer use to create, modify and extract data from the relational database, as well as control user access to the database.

**3.3 Tools & Platforms**

**3.3.1 Software Interfaces**

The software requirements for the proposed system are listed below

* Microsoft Windows 10 Operating system
* XAMPP
* VS Code
* Web Browser

Microsoft Windows 10 Operating System

The windows 10 Operating system was used to install the required applications in the computer and used to work with the applications in the computer.

XAMPP

XAMPP was used to design the pages with PHP and to get the requested locations. XAMPP control panel was used to create and handle the database. PHP My Admin was used to create and maintain the Data Base and the Tables.

VS Code

VS Code was used to write the codes in the specific programming languages.

Web Browser

Web Browser is used to check the output for the coding and used to access our designed web page. Also, it is used to access the PHP My Admin Interface.

**3.3.2 Hardware Interfaces**

To install the required software application to run the webpage the following Hardware Interface is required,

* Laptops with intel Core i5 Processors
* Minimum 4GB RAM
* 5 GB of Hard Disk Space

**3.3.3 Communication Interfaces**

* Git hub
* Zoom Could Meetings Platform
* Google drive facility

First, we connect the VS Code with the GitHub. Then we updated our work in the GitHub. It helped us to contribute everyone in the development of the webpage with their assigned work. In addition, we used the ZOOM Application for the Group Discussions and Meetings.

**3.4 Implementation**

**Chapter 04**

**Evaluation**

**Chapter 05**

**Conclusion and Further Work**

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