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| Creating Web Application |
| COS10011  Semester 2, 2021 |
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| Member Name | Member ID |
| Osama Iftikhar | 102763363 |

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**Assignment 1**

# Introduction

*[Brief introduction to the website: background and objectives]*

## Scope of the website

The website selected is a bus booking website. The website is used for a bus company in order to reserve seats and enquire about the bus. The reason I choose this topic because It’s a great concept for where I live.

## Intended audience

The intended audience are audiences from the age of 18 and above, both male and female. This is because This website is an e-bus booking website which is mostly used by Adults book seats for trips. As children don’t make trips with an adult present.

# Webpage Design and Structure

## Website Layout Mock ups

*[Provide Wireframe/sketch of the website. You may use the available online tools such as* [*https://moqups.com/*](https://moqups.com/) *]*

Logo

Navigation Bar

Background Image with text

Background Image with text



Why choose us

Why choose us

Why choose us

Google Map

Footer

Index.html

Navigation Bar

Logo

Personal Details

Your Address

Details

Submit

Footer

Enquiry.html

Navigation Bar

Logo

Photo of Myself

Name and Course

A Table About Myself

Footer

Aboutme.html

NOTE: THE CSS WAS NOT WORKING DUE TO SOME ERROR HENCE THIS PAGE IS INCOMPLETE. AFTER TRYING DIFFERENT CODES NOTHING WORKED.

Navigation Bar

Logo

Disclaimers

Footer

Disclaimer.html

Logo

Navigation Bar

ENHANCEMENTS.

Footer

Enhancement.html

Navigation Bar

Logo

Background Image with text

Bus schedule

Bus schedule

Bus schedule

Bus schedule

Footer

lahore.html

Navigation Bar

Logo

Background Image with text

Bus schedule

Bus schedule

Bus schedule

Bus schedule

Footer

karachi.html

Navigation Bar

Logo

Background Image with text

Bus schedule

Bus schedule

Bus schedule

Bus schedule

Footer

islamabad.html

Navigation Bar

Logo

Background Image with text

Bus schedule

Bus schedule

Bus schedule

Bus schedule

Footer

multan.html

## Website Structure

*[Provide hierarchical structure of the website]*

Home

Enhancements

Disclaimer

About me

Enquiry

Travel

Lahore

Karachi

Islamabad

Multan

# End Product

## Actual User Interface

*[Provide screenshots of the websites. Justify and explain the design used based on the webpage design principles. Do some reading online for design principle guidelines]*

### Home Page

Graphical user interface, website

Description automatically generated

Text

Description automatically generated with low confidence

Graphical user interface, application, website

Description automatically generated

A screenshot of a computer

Description automatically generated with medium confidence

Everything in Index.html is arranged symmetrically for visual unit. The main color of the website is yellow and black. The background color was set to yellow with different intensities and all sources were set to black. This is to make the writing easier to read. The design of the other website will follow the design of the home page to achieve the repeat principle.

### Enquiry

A picture containing graphical user interface

Description automatically generated

A screenshot of a video game

Description automatically generated with medium confidence

This is the design of enquiry webpage, a very vibrant picture is added and along side that a minimal form. The contents of the webpage have been aligned centre to a box.

### Disclaimer

Text

Description automatically generated

### Services Pages

A screenshot of a video game

Description automatically generated with medium confidence

A picture containing graphical user interface

Description automatically generated

A marquee is added to welcome the customers on the website

## Enhancements (if any)

*[Describe the enhancements if any]*

### Embedded Google Map

**Code needed to embed the Google Map:**

https://www.google.com/maps/embed?pb=!1m14!1m8!1m3!1d13593.957548970388!2d74.3174947!3d31.5930474!3m2!1i1024!2i768!4f13.1!3m3!1m2!1s0x0%3A0x52407b0689687ce5!2sGeneral%20Bus%20Stand%2C%20Badami%20Bagh%2C%20Lahore!5e0!3m2!1sen!2s!4v1633383674297!5m2!1sen!2s" <br/><br/><strong>Citation:</strong>https://extension.umaine.edu/plugged-in/technology-marketing-communications/web/tips-for-web-managers/embed-map

**Page Implemented:** Home Page

**Citation:** https://stackoverflow.com/questions/54264689/how-to-embed-google-map-url-to-website-using-html

### Why choose us

**Page Implemented:** Home Page

**Citation:**https://codepen.io/Sakilmurad/pen/GRNrvqX

**Code explanation:**

It is used to help ease the users readability.

### Hover Drop Down Navigation

**Code explanation:**

The hover drop down is create using button. The border of the button has been set to no border to allow the button to immerse with the navigation bar. The font colour of the button has been set to white colour to create contrast between navigation bar and the button texts. When the mouse is hover over the button, the font colour will change to yellow colour to allow the users which link they want to select.

**Page Implemented:** Every page of the website

**Citation:** https://www.w3schools.com/howto/howto\_css\_dropdown.asp

### Enlarge Nav Link

**Code Explanation:**

The links of the popular services are image with links. This is to make the website look more special and unique The nav menu is enlarges so that It is easily readable for the user.

**Page Implemented:** Home Page

**Citation:** <https://www.w3schools.com/howto/howto_css_zoom_>

### Marquee

**Code Explanation:**

A marquee is added to greet the user and welcome them to the website.

**Assignment 2**

1. Description

Firstly I have added Javascript code to transfer Data between pages. In the code I first created an array which included all 24 of the bus timings. This includes the Destination as well as Class. After that I created 4 Product Lists for all 4 cities and added their respective Destination Class on the array. S that Now of the user selects enquiry from Lahore to Karachi Perhaps, It will automatically take the user to the enquiry form with he Subject Line and the Destination class already selected and Filled.

Graphical user interface

Description automatically generated

*Figure 1*

After that I have Validated the Enquiry form so that If the User is missing something prior to submitting the form the browser prompts the User to complete it.

Text

Description automatically generated

*Figure 2*

Lastly I have further Improved the Drop down effect on the Nav bar so that when the mouse hovers on the options it changes colour giving it an elegant look.

Graphical user interface

Description automatically generated

*Figure 3*

1. End Product
   1. Enhancement 1 ; Using session storage to save and transport data between different pages
   2. Enhancement 2 ; Dynamically insert HTML elements with the relevent data
   3. Enhancement 3: Changing values dynamically in response to events
   4. Enhancement 4: using RegEx to validated inputs
   5. Enhancement 5: Red line to show Current page open.

Text

Description automatically generated with medium confidence

**Assignment 3**

1. Description

This project entails converting the entire html website to php in order to incorporate the php connection to database capability. MySQL is the database utilised in this project. CRUD (Create, Read, Update, and Delete) will be implemented within the system as well as a webpage PHP also made it possible to reuse certain HTML skeletons.i have added a mysql database for the enquiries page so that all the data can be accessed easily and neatly.

This assignment also includes some enhancements. User Management Module was chosen as the enhancement module to be included.

Graphical user interface, application

Description automatically generated

Firstly we have added a login ID and Password for the admin to access the saved enquiries in the Database.

A picture containing table

Description automatically generated

All the Files have been converted to PHP.

Graphical user interface, text, application, chat or text message

Description automatically generated

Created a separate file for header.php and banner.php

1. MySQL database structure/schema

Table

Description automatically generated

MySQL database can be accessed at view\_enquiries.php

Graphical user interface, text, application, email

Description automatically generated

The data can be viewed on the phpMyAdmin page as well.

*[Prepare a table to show MySQL database used in the website]*

1. End Product
   1. Enhancements (if any)

Graphical user interface, text, application

Description automatically generated

I have added a User Management System where all the users, their logins and passwords are stored. You can add new Users as well as update Information and Delete Users.

A screenshot of a video game

Description automatically generated

That is the End of the Assignment

Thank you