



Project Title

# **OBMS-ONLINE BUS MANAGEMENT SYSTEM**

By:

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**[18k-1177] 8E**

Hosting URL:

<http://obms.atwebpages.com/>

Date:

**May 23, 2022**

## Final Project Report

### Term Project Submission Guidelines

As announced in class early this week, I will not be assigning you any new assignments after mid2, you now only need to focus on completion of your term projects. Demos will start from 24-05-2022. All students must be present in class next week, because I will call students for demo according to their roll numbers or whatever sequence I decide, and if students don't appear for demo in his / her turn he / she will lose some important marks. You will be given 3-7 minutes to show the working of your application. [All group members must be present]

All the projects must be submitted on or before 23-05-2022 ~11:00 PM on google forms. Late submissions will have negative impact on the marks.

All students are advised to submit their projects on 23-05-2022 at 11 PM. following are additional instructions for project submission:

1. Final Project Submission (MS Word Report + CODE+SQL)
2. Follow all guidelines provided earlier in proposal submissions (21-Feb 2022). As a reference, it's referred here again: Description of your term project proposal, document its features and development tasks and time line (Gantt chart), and estimate project development cost in terms of Rupees. Document name of group members (min 1 & max 3 members, cross section groups not allowed). Project should be based on Database driven Management Information System such as hospital management system, inventory management, bank management system, transport management etc. Avoid creating online stores or other shopping carts. Project should contain 15 core domain features (Note: login / logout / dashboard is not core domain features). For example, online flight booking is a core domain feature of Travel and Tour planning management system.
3. Readily available user interfaces or UI themes are not allowed. GUI must follow UI standards and must look professional. (<https://designsystem.digital.gov>)
4. Do not use any kind of Content Management System to develop the web application.
5. Refer to Guide: Refer to Guide: Top 10 mistakes in handling website images  
[https://cloudinary.com/blog/top\\_10\\_mistakes\\_in\\_handling\\_website\\_images\\_and\\_how\\_to\\_solve\\_them](https://cloudinary.com/blog/top_10_mistakes_in_handling_website_images_and_how_to_solve_them)
6. Projects will not be accepted after due date.
7. If you fail to submit the project on time, you may not be able to do it later on. Do not submit project on 11th hour, if in case connection is dropped you won't be able to submit it again. Project submission on emails after passing due time is not allowed.
8. If you upload the empty or corrupted archive, you will get zero marks. Hence double check before uploading.
9. Re-submission of project is not allowed, think, verify and double check everything before uploading.
10. Plagiarism, if detected, will result in zero marks.
11. Only Group leader is required to submit the project.
12. Project must be submitted Google forms. Only one submission is allowed.
13. Final MS Word Project Report should contain the following.
  - A. Cover page of report: Name, roll no, date of submission, Live hosting URL with all the user name and passwords.
    - a. Hosting is not mandatory for project demo; you need to bring your laptop and run the project on localhost.
    - b. Hosting can be delayed until 27-05-2022 11:55 PM. Hosting marks will be added to project later on.
    - c. For Hosting info, edit your submission on google form on 27-05-2022 11:55 PM and enter the URL for hosting.
  - B. After cover page, a printout of "this" project assignment page is required (1st page only).
  - C. A detailed description of the project.
  - D. Complete feature of your application. (minimum 15 core domain features. - login / logout are not domain features.
  - E. Screenshots of all the features of your web application.
  - F. Work breakdown structure & Project Gantt Chart. (Already submitted in proposal)
  - G. Explain all the features of project by detailed textual descriptions and diagrams / screen shots.
  - H. Setup instructions: Show step by step instructions on how to deploy / set-up the project after downloading.
14. Submit the project after making a single zip archive of the project files. Following directories must be present in Zip file:
  - A. MSWordDoc -> containing the above-mentioned report and project hosting URL on the front page of report.
  - B. Code -> Source code of your project.
  - C. SQL -> Database SQL scripts with data of your project.
  - D. Proposal -> your proposal as you submitted on Feb 21, 2022. [Any deviation from proposal will result in marks deduction]
15. Naming convention of the zip file: WPPProject-GroupLeaderNameRollNo-Section.Zip
16. Submit Project in your section only (as registered in flex), otherwise you will get zero.
17. Submission on Google Forms is restricted to your FAST-NU email ID only.
18. Ideal Zip size is 20 MB (web pages compressed). Try to not upload more than 20 MB. Limit is 100MB.
19. Submit your main page URL (free hosting) - mandatory. If you submit wrong URL you will get zero.
20. Only one submission of Project Submission is allowed. If you make a mistake in 1st submission, you can't correct it again. Submission for BE: <https://forms.gle/EwwkxgRm3LWvzi7>

## ACKNOWLEDGEMENT

It is indeed with a great pleasure and immense sense of gratitude that we acknowledge the help of these individuals. We are highly indebted to our Director **Dr. Muhammad Atif Tahir**, FAST-National University of Computer and Emerging Sciences, for the facilities provided to accomplish this main project.

We would like to thank our **Dr. Zulfiqar Ali Memon**, Head of the Department of Computer Science, FAST-National University of Computer and Emerging Sciences, for this constructive criticism throughout our project.

We feel elated in manifesting our sense of gratitude to our internal project guide **Mr. Abdul Rahman, Lecturer, Department of Computer Science**, FAST-National University of Computer and Emerging Sciences. She has been a constant source of inspiration for us and we are very deeply thankful to him for his support and valuable advice.

We are extremely grateful to our Departmental staff members, Lab technicians and Non-teaching staff members for their extreme help throughout our project.

**Project Associate:**

Muhammad Owais Mushtaq (18K-1177)

## DECLARATION

We hereby declare that project titled “**OBMS- Online Bus Management System**” is an original record done by us at **FAST-NUCES**, towards the partial fulfillment of requirement for the award of degree of Bachelor of Computer Science during the period of 2018-2022 in **FAST-NUCES**, and also we state that this project has not been submitted anywhere in the partial fulfillment for any degree of this or any other University.

Muhammad Owais Mushtaq (18K-1177)

## ABSTRACT

The purpose of the project entitled as “**OBMS - Online Bus Management System**” is to computerize the Bus Management System for Adda Managers via developing Web based software which is user friendly simple, fast, and cost effective. It allows Manager to not only remotely access to all the details of bus but access for insertion, alteration, and deletion of any specific details related to bus service such as inserting the details of new bus, route, stop, or deriver etc. Traditionally, it was done manually. Which was not only very time consuming, but also very difficult in case of how to show to updated details to customers (passengers). Hence, we have given an access for passenger too, which helps them to see all the updated details any time from anywhere. However, the main features such as add/update/delete data from the database is accessible only to its administrators. Only they can add/update/delete data from the database. The data can be retrieved easily. The data are well protected for personal use and makes the data processing very fast.

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# CHAPTER 1

## INTRODUCTION

### 1.1 Introduction:

The purpose of the project entitled as “**OBMS - Online Bus Management System**” is to computerize the Bus Management System for Adda Managers via developing Web based software which is user friendly simple, fast, and cost effective. It allows Manager to not only remotely access to all the details of bus but access for insertion, alteration, and deletion of any specific details related to bus service such as inserting the details of new bus, route, stop, or driver etc. Traditionally, it was done manually. Which was not only very time consuming, but also very difficult in case of how to show to updated details to customers (passengers). Hence, we have given an access for passenger too, which helps them to see all the updated details anytime from anywhere. However, the main features such as add/update/delete data from the database is accessible only to its administrators. Only they can add/update/delete data from the database. The data can be retrieved easily. The data are well protected for personal use and makes the data processing very fast. Online Bus Management System is winning over the traditional management methods due to its efficiency.

### 1.2 Problem Introduction:

#### **Lack of immediate retrievals: -**

The information is very difficult to retrieve and to find particular information like- E.g. - To find out about the Driver's history, the user has to go through various registers. This results inconvenience and wastage of time.

#### **Lack of immediate information storage: -**

The information generated by various transactions takes time and efforts to be stored at right place.

#### **Lack of prompt updating: -**

Various changes to information like Bus's details or stop details are difficult to make as paper work is involved while have to update passengers as well.

**Preparation of accurate and prompt reports: -**

This becomes a difficult task as information is difficult to collect from various register.

### **1.3 Scope of the Project:**

This project can further expand in future by giving more control to passengers such as booking ticket, cancelling ticket, online payment methods etc. Plus, we could give an access to driver's community too, so that they can ensure their departure and other important details.

### **1.4 MODULES:**

The main modules of our site are:

- Admin module
- Bus module
- Driver module
- Route module
- Stop module



## CHAPTER 2

# REQUIREMENT SPECIFICATION

### 2.1 INTRODUCTION:

To be used efficiently, all computer software needs certain hardware components or the other software resources to be present on a computer. These pre-requisites are known as (computer) system requirements and are often used as a guideline rather than an absolute rule. Most software defines two sets of system requirements: minimum and recommended. With increasing demand for higher processing power and resources in newer versions of software, system requirements tend to increase over time. Industry analysts suggest that this trend plays a bigger part in driving upgrades to existing computer systems than technological advancements.

### 2.2 HARDWARE REQUIREMENTS:

The most common set of requirements defined by any operating system or software application is the physical computer resources, also known as hardware. A hardware requirements list is often accompanied by a hardware compatibility list (HCL), especially in case of operating systems. An HCL lists tested, compatibility and sometimes incompatible hardware devices for a particular operating system or application. The following sub-sections discuss the various aspects of hardware requirements.

#### NORMAL HARDWARE REQUIREMENTS FOR PRESENT PROJECT:

PROCESSOR : Intel dual Corei3

RAM : 1 GB

HARD DISK : 80 GB

## **2.3 SOFTWARE REQUIREMENTS:**

Software Requirements deal with defining software resource requirements and pre-requisites that need to be installed on a computer to provide optimal functioning of an application. These requirements or pre-requisites are generally not included in the software installation package and need to be installed separately before the software is installed.

## **2.4 Functional Requirements:**

Statements of services the system should provide and how the system should react to particular inputs and in particular situations. May state what the system should not do.

### **Functional Requirements**

Our System has following functional requirements:

- Registration
- Login
- Insert details
- Update details
- Delete details
- Observe Changes
- Forgot Password
- Logout

## **2.5 Non-Functional Requirements:**

Non-Functional Requirements specifies the quality attribute of a software system. They judge the software system based on Usability, Security, Localization, Responsiveness, Portability, Compatibility and other non-functional standards that are critical to the success of the software system.

## Non-Functional Requirements

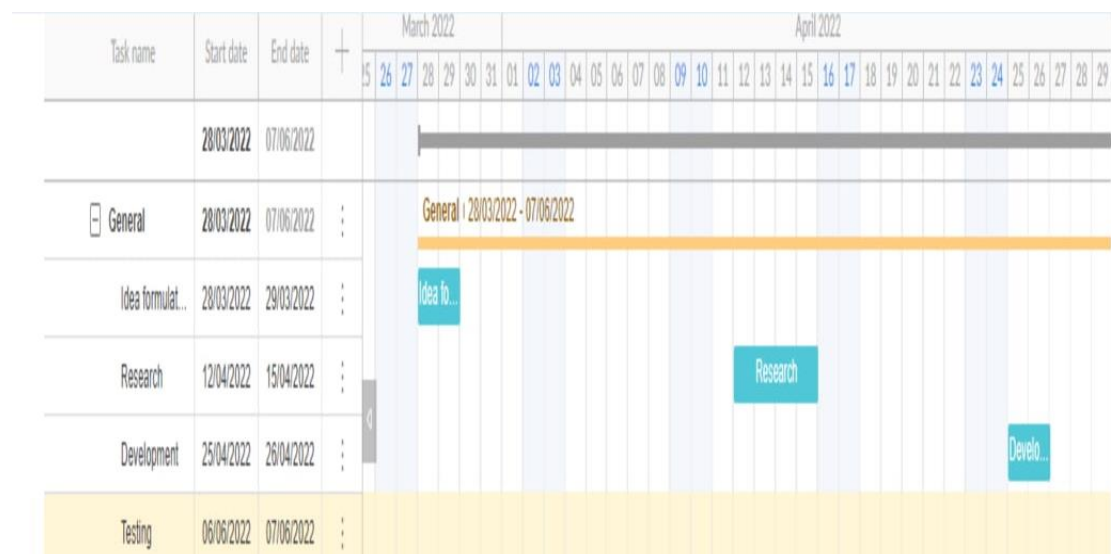
Our System has following non-functional requirements:

- Security requirements
- Database connectivity
- User friendly GUI of website
- Email confirmation
- Performance (e.g. website loading time, rent calculation, availability etc.)

## 3. SOFTWARE SPECIFICATION

OPERATING SYSTEM:	Windows 7/8/10, Linux
FRONT END:	HTML5, CSS3, Bootstrap, JavaScript
SERVER SIDE SCRIPT:	PHP
DATABASE:	MySQL

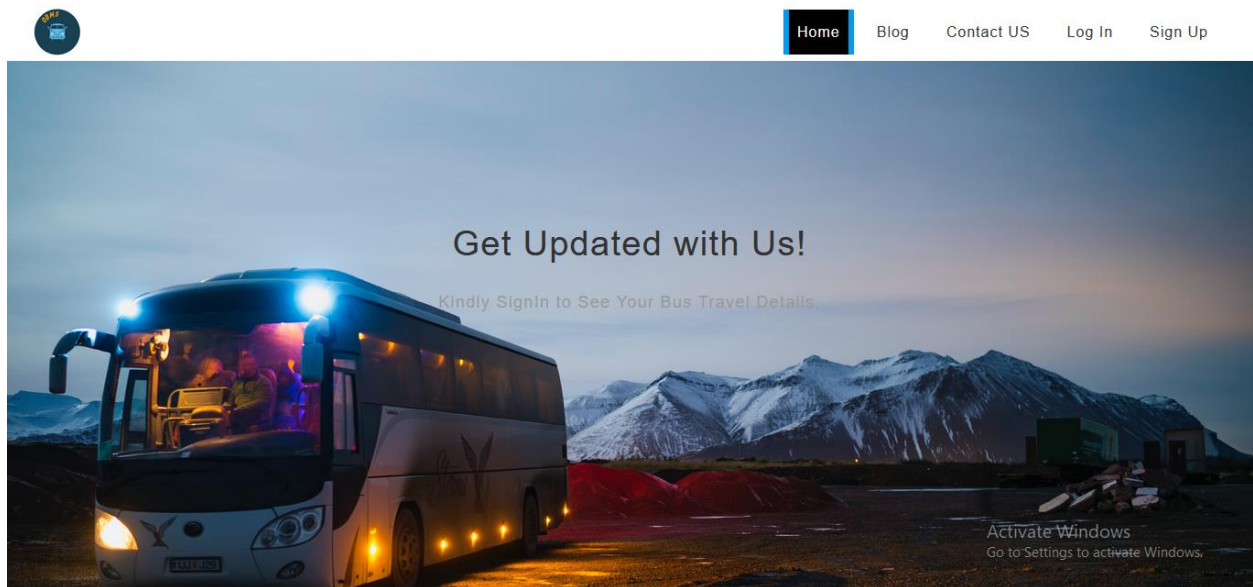
## 4. Gantt Chart



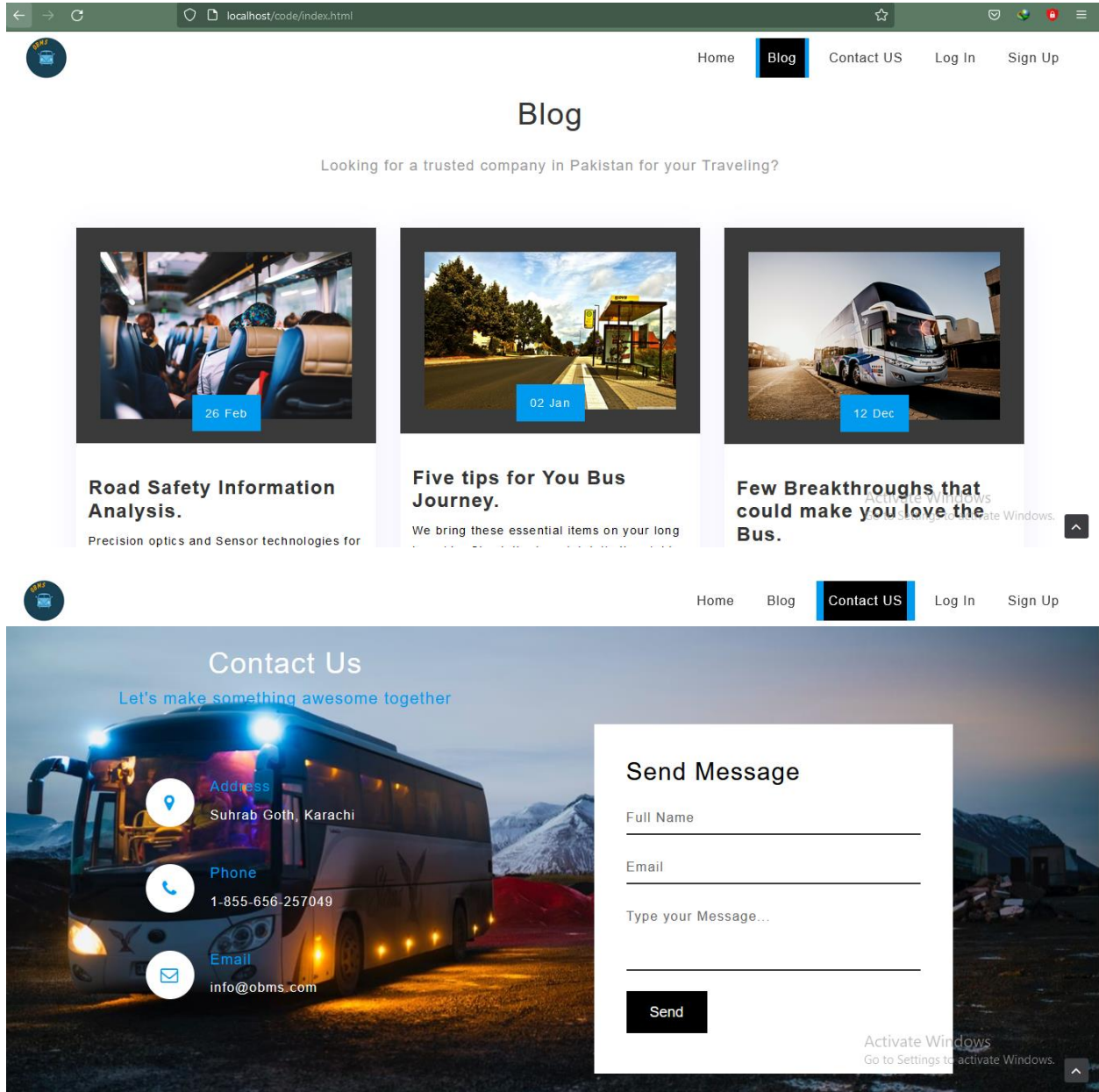
## 5. Hosting Steps

1. Log in at [atwebpages.com](https://www.atwebpages.com)
2. Choose file manger and upload your code files
3. Then choose PHP My admin, export your sql file.
4. Select domain name and get the link of your site.

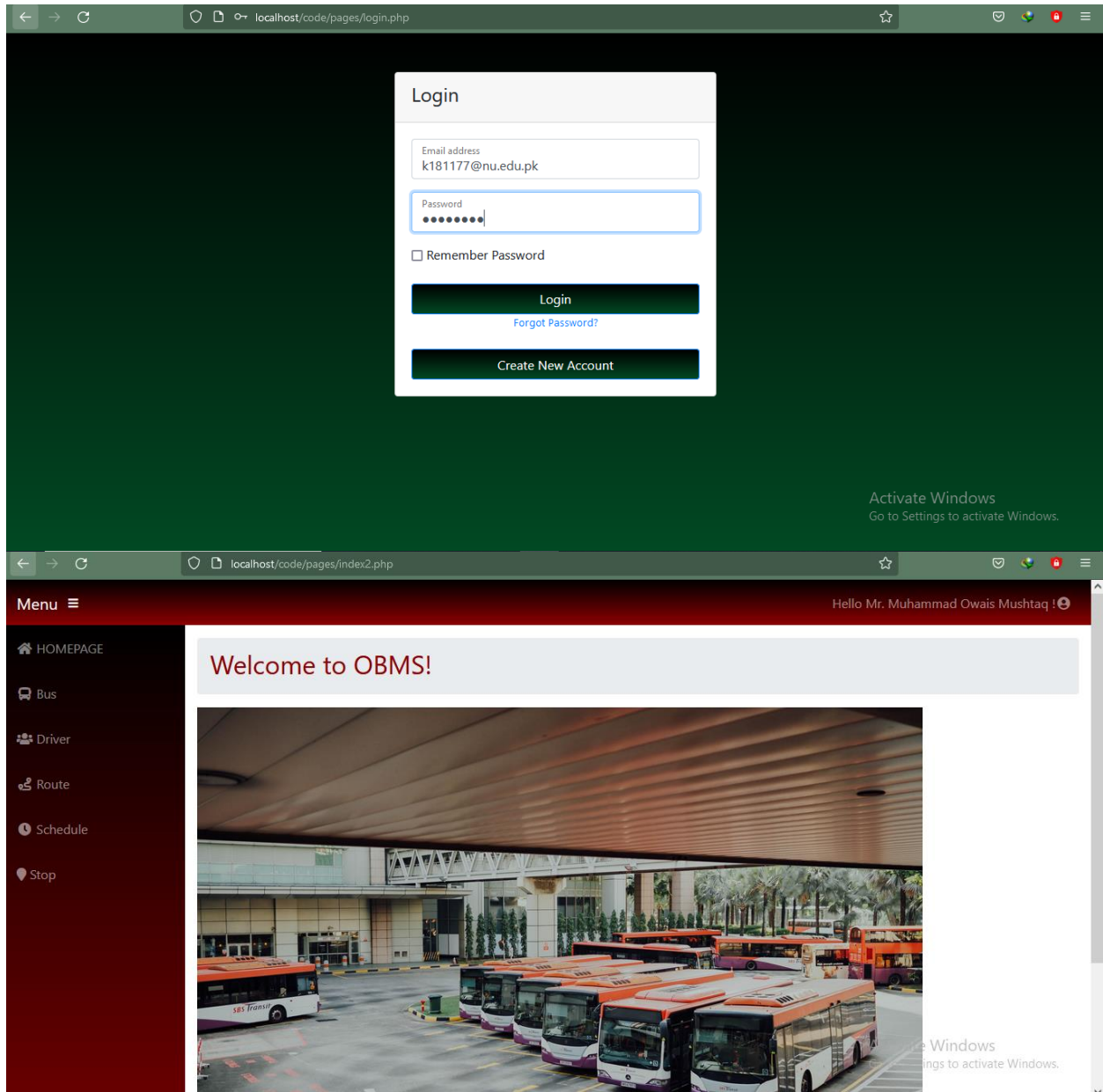
## 6. Screenshots



# Final Project Report



# Final Project Report



# Final Project Report

The image displays two screenshots of a web application running on a local host.

The top screenshot shows the "Register an Account" page. The browser address bar indicates the URL is `localhost/code/pages/register.php`. The registration form is centered on a dark green background. It includes input fields for "First name", "Last name", "Email address", "Password", and "Confirm password". A dark green "Register" button is at the bottom of the form, with a link "Already Have an Account?" below it.

The bottom screenshot shows the "Reset Password" page. The browser address bar indicates the URL is `localhost/code/pages/forgot-password.html`. The form is centered on a dark gray background. It features the heading "Forgot your password?" and the instruction "Enter your email address and we will send you instructions on how to reset your password." Below this is an input field labeled "Enter email address". A dark green "Reset Password" button is positioned below the input field. At the bottom of the form, there are two links: "Register an Account" and "Login Page".



## Conclusion

We have used implemented different techniques learn through Web Programming and computerized the Bus Management System for Adda Managers via developing Web based software which is user friendly simple, fast, and cost effective. It not only allows Manager remotely access to all the details of bus but also gives the rights for insertion, alteration, and deletion of any specific details related to bus service such as inserting the details of new bus, route, stop, or deriver etc. However, the main features such as add/update/delete data from the database is accessible only to its administrators and passengers can only see the relent details to their booking. The data can be retrieved easily. The data are well protected for personal use and makes the data processing very fast. Online Bus Management System is winning over the traditional management methods due to its efficiency.