

A Project Report on  
**“Travel Portal”**

**Course: CSE328 (Software Engineering)**

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**MIRPUR-2, DHAKA-1216**

**DECEMBER, 2022**

## **ABSTRACT**

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“Travel Portal” is a website which is being used to book, manage and maintain the internal systems of the transportation chain. The main objective of the Travel Portal System is to manage the transports, store the information of the transports and clients, and any members regarding the system, and to make the task of the client and admin easy. The main aim of the “Travel Portal” is to make it easier for the people who will use the system in the future and get out of the traditional ways to book a ticket, especially by pen and paper.

## DECLARATION

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I hereby declare that the project entitled “Travel Portal” submitted for the degree of Bachelor of Science in Computer Science and Engineering in the faculty of Computer Science and Engineering of Bangladesh University of Business and Technology (BUBT), is our original work and that it contains no material which has been accepted for the award to the candidates of any other degree or diploma, except where due reference is made in the text of the project to the best of our knowledge, it contains no materials previously published or written by any other person except where due reference is made in this project.

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## **CERTIFICATION**

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This project “Travel Portal” report was submitted by Bayzid Simon Sarkar, Rezaul Karim Ridhon and Shashwati Paul Progga students of Department of Computer Science and Engineering, Bangladesh University of Business and Technology(BUBT), under the supervision of Ms. Adeeba Anis, Lecturer, Department of Computer Science and Engineering has been accepted as satisfactory for the partial requirements for the degree of Bachelor of Science Engineering in Computer Science and Engineering.

## DEDICATION

---

*To my beloved father John Sarkar Francis*

*Bayzid Simon Sarkar*

*To my beloved parents*

*Rezaul Karim Ridhon*

*To my beloved parents*

*Shashwati Paul Progga*

## **ACKNOWLEDGEMENTS**

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I would like to thank the following people for their help in the production of this project:

Ms. Adeeba Anis, the project supervisor for all of his ongoing assistance with the project, without whose help and support throughout this project, would not have been possible.

Ashraful Haque and T.M. Amirul Haque, Assistant Professors, BUBT for their assistance in testing the software application developed in the project and providing feedback.

## APPROVAL

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This Report “**Travel Portal**” was Submitted by **Bayzid Simon Sarkar, Rezaul Karim Ridhon, and Shashwati Paul Progga ID NO: 19203103082, 19203103090 and 19203103051**, Department of Computer Science and Engineering (CSE), Bangladesh University of Business and Technology (BUBT) under the supervision of Ms. Adeeba Anis, Lecturer, Department of Computer Science and Engineering has been accepted as satisfactory for the partial fulfilment of the requirement for the degree of Bachelor of Science(B.Sc. Engg.) in Computer Science and Engineering and approved as to its style and contents.

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# CHAPTER 1

## INTRODUCTION

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### 1.1. Introduction

Travel Portal that offers many flexible and convenient features, allowing users to maximise time and efficiency. The Transport Management System gives detailed information about available transports and schedules. It will track how many transports are available in the queue and book tickets accordingly. The project titled Travel Portal is Transport Management web based software for monitoring and controlling the transports and to book tickets for the desired destination. The project “Travel Portal” is developed in HTML5, CSS3 and PHP, which mainly focuses on basic operations in managing the transportation system by the admins and booking tickets by the clients. As mentioned earlier, the project is all about making life easy and managing the transports. Also, the project helps the admin view the details at any time and at any place. About the working of our project, we plan to include a few basic options which deal with recording, retrieving, and registration.

### 1.2. Project Motivation

The transport management done by the transportation service companies till today follows the traditional methods only and digitised system as well. All of their work is done with either pen and paper or via software. The main difficulty is that they have failed to provide all sorts of transportation services such as Air, Bus, Launch etc at one place so that the client can select their way of travel considering every option available.

### 1.3. Project Objectives

The problems which we have identified during gathering information and analysis of the existing systems are mentioned below:

1. Making the transportation system accessible to all the people from anywhere in the world.
2. The clients will be able to book tickets and choose from multiple options of the available transports.
3. The clients will not have to go to any counter physically rather they will be able to book and purchase their tickets online.
4. The admins will be able to manage their way of service and transport remotely.
5. There will be no risk of ticket loss or selling or purchasing a ticket in black.
6. Clients will get relief during the festive holidays such as Eid, Puja or Christmas.
7. Government will be able to monitor the activity that is whether the clients are charged a fair price or not.

#### **1.4. Project Description**

The challenge which has encouraged and driven us to accept and complete this project is no less than fun. The features, functionalities, or the modules which will be served by our project are told below in a few words.

- Travel Portal allows a client to create an account i.e. Register and book their desired transport.
- The clients will be able to navigate the whole page from the top down menu.
- The admin will be able to manage transports and client information from the back end or admin panel.
- Travel Portal supports multilingual features that are Bengali, English and German.
- The hyperlink of our website is <https://www.travelportal.bayzidsimon.com>.

#### **1.5. Conclusion**

This chapter clearly gives us an idea of how we are going to begin this project, the reason, the motivation, and the objectives of this project.

## **CHAPTER 2**

### **METHODOLOGY**

---

#### **2.1. Introduction**

Transportation is a crucial part of many organisations' operations, and managing transportation efficiently can help companies reduce costs, improve customer service, and increase competitiveness. A transport management system (TMS) is a software solution that helps companies manage transportation operations more effectively by streamlining processes, optimising routes, and improving communication with carriers and customers.

The methodology of a TMS involves a structured approach to selecting, implementing, and continuously improving the TMS solution to meet the organisation's transportation needs. The methodology typically includes steps such as defining requirements, evaluating options, planning implementation, migrating data, training users, launching the system, and continuously monitoring and improving performance.

Effective transportation management requires a comprehensive understanding of the organisation's transportation needs and a strategic approach to deploying technology to optimise transportation operations. By following a structured methodology for selecting and implementing a TMS, organisations can improve efficiency, reduce costs, and enhance customer service, ultimately helping to drive business success.

##### **2.1.1. Reason Behind choosing this Methodology**

The methodology which is used by us is the incremental model or incremental methodology. Incremental methodology is an approach to software development where the project is broken down into smaller, more manageable modules or increments. Each increment is developed and delivered in stages, with each stage

building on the previous one. This approach allows for the early delivery of working software and enables feedback to be incorporated into the development process.

In incremental methodology, the requirements for the entire project are not fully defined upfront. Instead, the requirements are divided into smaller sets that are developed and tested in stages. This approach provides the opportunity for changes to be made to the requirements as the project progresses, allowing for flexibility and adaptability.

There are several benefits to using an incremental methodology for software development, including:

1. Early and frequent delivery of working software: This allows users to see and use the software as it is being developed and provides an opportunity to provide feedback and make changes early in the development process.
2. Flexibility and adaptability: With an incremental approach, changes to requirements can be made at any stage of the development process. This allows for flexibility and adaptability to changing user needs and requirements.
3. Risk reduction: By breaking the project down into smaller increments, the risk of developing a large, complex software system is reduced. Each increment is developed, tested, and deployed independently, reducing the risk of failure for the entire project.
4. Improved project visibility: Incremental methodology provides a clear view of the development process and progress of the project, allowing stakeholders to monitor and track progress more effectively.

## **2.2. Conclusion**

However, there are also some potential disadvantages to using an incremental methodology, such as the potential for additional development and testing costs and the need for effective project management and coordination to ensure that all modules are integrated properly.

# CHAPTER 3

## TECHNOLOGIES

---

### 3.1. Introduction

This chapter will show us the user interface of the project and how it will appear before the client and users. It will also give us an idea about the modules of the UIs.

### 3.2. Technologies Used

The hardware and software that are used to design and test this software are mentioned below descriptively.

#### 3.2.1. Hardware

##### a) Developers End

###### Configuration:

**PROCESSOR / CHIPSET:** CPU - Ryzen 5 5600G / 3.8 GHz, Max Turbo Speed - 4.4 GHz, Number of Cores - Hexa-Core Cache - L3 - 4 MB, 64-bit Computing - Yes

**RAM:** Memory Speed - 3200 MHz Memory, Specification Compliance PC4-17000, Configuration Features - 1 x 16 GB, Technology - DDR4 SDRAM Installed Size - 16 GB Rated Memory Speed - 3200 MHz

**MEMORY:** Max Supported Size - 32 GB, Technology - DDR4 SDRAM Speed - 3200 MHz / PC4-17000 - 3200 MHz, Form Factor - SO-DIMM 260-pin Slots Qty - 1 Empty Slots – 0

##### b) User End/Client

Any device after 2010.

#### 3.2.2. Software

##### a) Developers End

Operating System: Windows 10

Front End: HTML5, CSS3.

Front End Framework: JFrame.

Server Side Script: PHP.

Database: MySQL.

Dependency Manager: Composer.

Server setup package: Global Host(Unknown).

#### **b) End /Client**

Android version OS 8.0, iOS version 5 or Windows 7 or above. And a must-have internet connection

Browser: Opera, Chrome, Mozilla Firefox, Brave, Microsoft Edge etc

### **5.3. Language**

- **HTML5 (Hypertext Markup Language version 5):**

It is the latest version of the HTML standard for creating web pages and applications. It is designed to provide a more modern and flexible approach to web development and is supported by all major web browsers. Overall, HTML5 provides a more modern and flexible approach to web development, with improved multimedia support, mobile optimization, and accessibility features. These enhancements have made it easier to create web applications and provide a more seamless user experience across devices and platforms.

- **CSS3 (Cascading Style Sheets version 3):**

It is the latest version of the CSS standard, which is used to style and format web pages. CSS3 includes several new features and enhancements that provide more flexibility and control over the visual presentation of web content. Overall, CSS3 provides a more powerful and flexible toolset for styling and formatting web pages, with improved control over layout, animation, and interactivity. These enhancements have made it easier to create visually appealing and responsive web designs that provide a seamless user experience across devices and platforms.



- **PHP (Hypertext Preprocessor):**

It is a popular open-source server-side scripting language used primarily for web development. It is used to create dynamic web pages and web applications that interact with databases and other web services. Overall, PHP is a versatile and widely used programming language that is well-suited for web development. Its support for database integration, object-oriented programming, and security features make it a popular choice for building dynamic web applications.

### 5.3. Database

A database is an organised collection of data that is stored electronically. Databases are used to store, organise, and manage large amounts of data in a structured and efficient manner. They are a fundamental component of modern software systems, from web applications to enterprise-level business systems. There are several types of databases, including relational databases (like MySQL, Oracle, and SQL Server) and non-relational databases (like MongoDB and Cassandra). Each type of database has its own unique features and capabilities, and the choice of database depends on the specific needs of the application or system being developed. The database that we used is MySQL which is shown below with some demo data.

#### User's Database

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	ID	bigint(20)		UNSIGNED	No	None		AUTO_INCREMENT	<a href="#">Change</a> <a href="#">Drop</a> <a href="#">More</a>
2	user_login	varchar(60)	utf8_general_ci		No				<a href="#">Change</a> <a href="#">Drop</a> <a href="#">More</a>
3	user_pass	varchar(255)	utf8_general_ci		No				<a href="#">Change</a> <a href="#">Drop</a> <a href="#">More</a>
4	user_nickname	varchar(50)	utf8_general_ci		No				<a href="#">Change</a> <a href="#">Drop</a> <a href="#">More</a>
5	user_email	varchar(100)	utf8_general_ci		No				<a href="#">Change</a> <a href="#">Drop</a> <a href="#">More</a>
6	user_url	varchar(100)	utf8_general_ci		No				<a href="#">Change</a> <a href="#">Drop</a> <a href="#">More</a>
7	user_registered	datetime			No	0000-00-00 00:00:00			<a href="#">Change</a> <a href="#">Drop</a> <a href="#">More</a>
8	user_activation_key	varchar(255)	utf8_general_ci		No				<a href="#">Change</a> <a href="#">Drop</a> <a href="#">More</a>
9	user_status	int(11)			No	0			<a href="#">Change</a> <a href="#">Drop</a> <a href="#">More</a>
10	display_name	varchar(250)	utf8_general_ci		No				<a href="#">Change</a> <a href="#">Drop</a> <a href="#">More</a>

Action	Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
<a href="#">Edit</a> <a href="#">Drop</a>	PRIMARY	BTREE	Yes	No	ID	3	A	No	
<a href="#">Edit</a> <a href="#">Drop</a>	user_login_key	BTREE	No	No	user_login	3	A	No	
<a href="#">Edit</a> <a href="#">Drop</a>	user_nickname	BTREE	No	No	user_nickname	3	A	No	
<a href="#">Edit</a> <a href="#">Drop</a>	user_email	BTREE	No	No	user_email	3	A	No	

#### **5.4. Conclusion**

This chapter clearly demonstrates the User Interface of the software and gives us a brief clear idea about the features of the ten different modules.

## **CHAPTER 4**

### **IMPLEMENTATION**

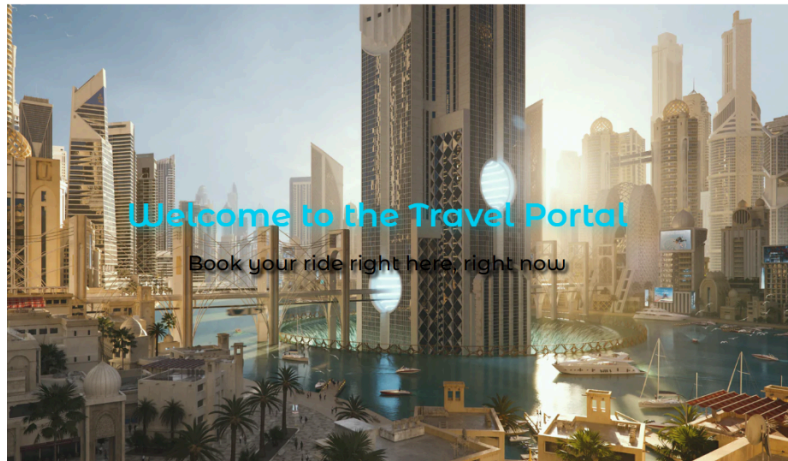
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#### **4.1. Introduction**

The implementation phase typically follows the planning and design phases of a project and involves executing project tasks, monitoring progress, and making adjustments as needed to keep the project on track.

The success of the implementation phase depends on a number of factors, including effective communication, stakeholder engagement, resource management, and risk management. Project managers must also ensure that all tasks are completed within the specified timeframe and budget, while also maintaining the quality of the project deliverables.

Overall, the implementation phase is a critical component of project management that requires careful planning, execution, and monitoring to ensure that project goals are achieved on time and within budget. By leveraging effective project management methodologies and tools, project managers can increase the likelihood of project success and deliver value to stakeholders. The implementation of Travel Portal is shown below.



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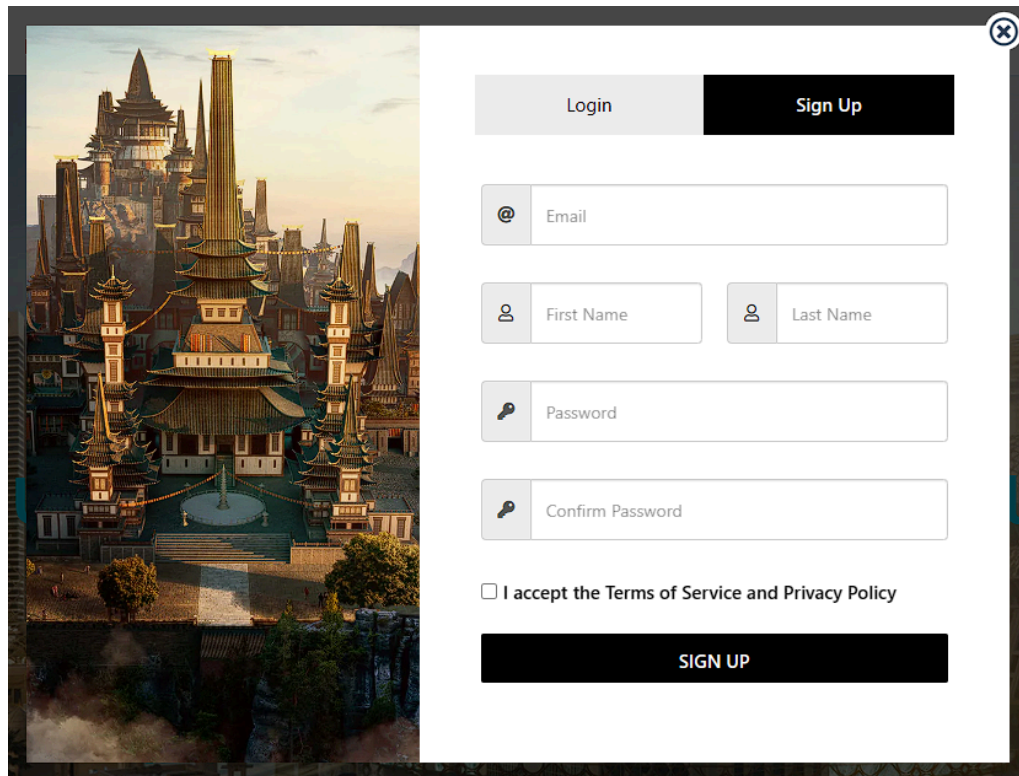


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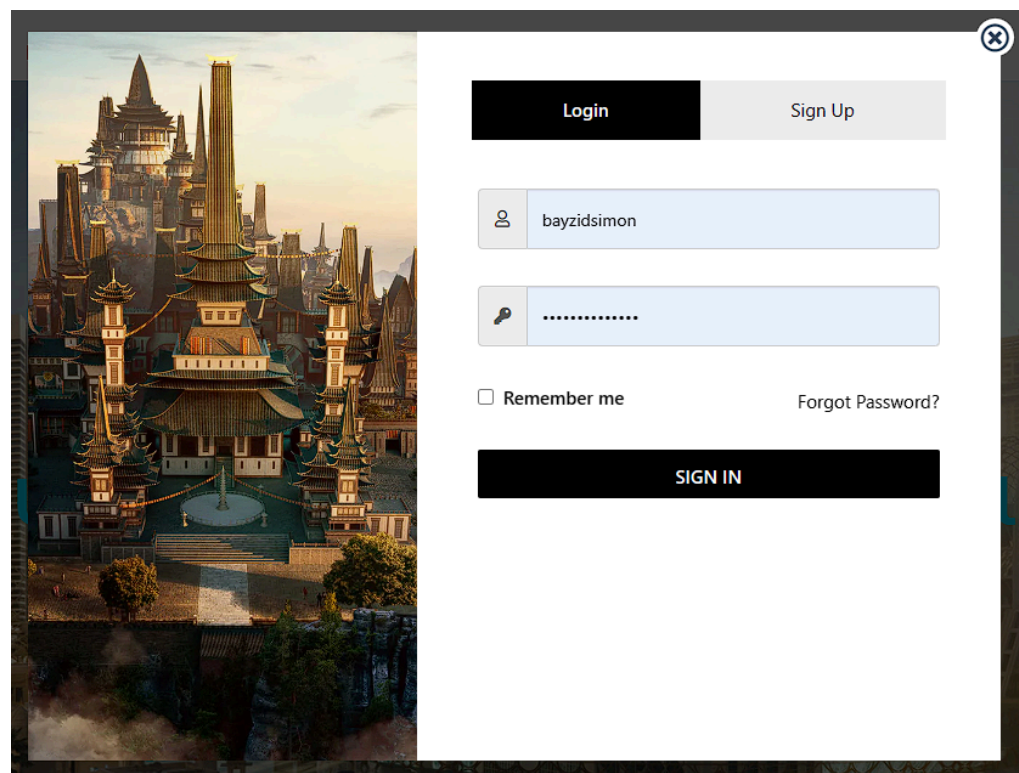
[Book Now](#)

<b>About Us</b> Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat.	<b>Support</b> admin@travelportal.bayzidsimon.com Hot-line: +02 884321 Admin Login	<b>Our Services</b> Air Plane Services Launch Services Train Services Bus Services <b>Our Upcoming Services</b> Taxi, Share Ride, CNG.	<b>Our Partners</b> Biron Bangladesh Qatar Airways Lufthansa All National Launch Commetties All National Bus Companies Bangladesh Railway
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Registration Form

Registration Form



Login Form

Login Form

BUY TICKET:

From:

Please Select

To:

Please Select

Date Of Journey

March 5, 2023

Return Date (Optional)

March 5, 2023

Search

Selection Menu

Search Your Ride

BUY TICKET:

From:

Dhaka

To:

Jessore

Date Of Journey

2023-03-09

Return Date (Optional)

March 5, 2023

Search

March 9, 2023

March 10, 2023

March 11, 2023

March 12, 2023


March 13, 2023

March 14, 2023

Dhaka

Jessore

March 9, 2023

Image	Transport Name	Schedule	Coach Type	Fare	Available	Action
	NOVOAIR #D11473	<div>» Dhaka (March 9, 2023 11:00 am)</div> <div>■ Jessore (March 9, 2023 11:45 am)</div>	DHC-8-400	4,500.00: /Seat	71 / 71	View Seats

Available Transports

## Search Your Ride

### BUY TICKET:

From:

Dhaka

To:

Jessore

Date Of Journey

2023-03-09

Return Date (Optional)

March 5, 2023

Search

March 9, 2023

March 10, 2023

March 11, 2023

March 12, 2023


March 13, 2023

March 14, 2023

Dhaka

Jessore

March 9, 2023

Image	Transport Name	Schedule	Coach Type	Fare	Available	Action
	<b>NOVOAIR</b> #011473	» Dhaka (March 9, 2023 11:00 am) ■ Jessore (March 9, 2023 11:45 am)	DHC-8-400	4,500.00: /Seat	71 / 71	<a href="#">View Seats</a>

A01

A02

A03

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D20

D21

D22

Boarding

Dhaka (11:00 am)

Dropping

Jessore (11:45 am)

Coach Type:

DHC-8-400

Date:

March 9, 2023

Start Time:

11:00 am

Fare:

4,500.00: / Seat

71 Seat Available

Total : 0.00

Seat No	Type	Fare	Remove
Qty : 0			
Sub Total : 0.00			

Book Now

## Seat Planning and Booking Page

## **4.2. Conclusion**

In conclusion, the implementation phase of a project is a critical step in the project management process. It involves executing the plans and strategies developed during the planning and design phases to achieve project objectives. Successful implementation requires effective communication, stakeholder engagement, resource management, risk management, and the ability to make adjustments and adapt to changes as needed

Effective project management during the implementation phase can help ensure that project tasks are completed on time and within budget, while also maintaining the quality of project deliverables. By leveraging project management methodologies and tools, project managers can effectively monitor progress, identify and address issues, and keep team members engaged and motivated throughout the implementation phase

Overall, the success of a project is largely dependent on the successful implementation of the project plan. By prioritising effective implementation, project managers can increase the likelihood of project success and deliver value to stakeholders



Thank You