



Department of Computer Science and Engineering

Course Code: CSE-4800

Project Proposal: **LU\_BUS**

**Submitted To:**

Rumel M.S.Rahman Pir

Associate Professor & Head

Department of Computer Science & Engineering

**Submitted By:**

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**Date of Submission:** 05 April 2023

To,

Head of the Department,

Department of Computer Science & Engineering,

Leading University, Sylhet.

Subject: Application for permission to approve the project proposal.

Sir,

With due respect, we would like to inform you that, we are students from 52<sup>nd</sup> batch of CSE department, are interested in developing a web-based application – **LU\_BUS** for our final-year project.

So, we would be highly grateful, if you kindly accept our proposal.

Your most obediently,

**Name ID**

Taslima Hussain Enas 1932020007

Amira Mostafa Chowdhury 1932020029

Md Shahinur Rahman 1932020044

**Batch:** 52<sup>nd</sup>

Department of CSE,

Leading University, Sylhet.

## **Table of Contents**

### **1.Overview**

1.1 Proposed Title

1.2 Problem Description

1.3 Scope

### **2. Existing Solution**

### **3. Project Requirements**

### **4. Work Plan**

### **5. Conclusion and future plan**

## **1.Overview:**

### **1.1 Proposed Title**

The Proposed title of our project is LU\_Bus Utilising System

### **1.2 Problem Description**

Leading University provides transportation service through 4 routes of the city for above two thousand students. As a user of those buses we're facing some hassle almost every day. Like they provides minimum 3-4 buses per route at a time where students are unaware of the vacancy in the bus. Sometimes we think that there will be gathering in the first bus so we wait for the next one meanwhile the first bus has good enough empty sit where the next bus is out of its capacity. Besides this, sometimes it can be seen that there are 40 students in one route and the number of buses is 4. Again sometimes the number of students is 100 but the bus is only 2.This is an unwanted waste of our resource if we consider transportation system as a resource.

### **1.3 Scope**

The main users of our application will be the students, administrative staff and faculty members. The application will be platform-independent so that not only the students but also the people of every sector will exploit it. Our application will surely maintain the proper utilisation of bus management and restrain the bus consumption. Moreover, the students who are struggling on this particular matter will surely be overcome by this application.

In future, our neighbouring school/collage/universities who provides transportation facilities for their students can be the user of our service.

## **2. Existing Solution:**

To solve this major issue we can book our seat earlier in a specific bus for our preferred time. A user has to book his/her seat within 12 hours of their reporting time. Besides this, anyone can book their return seat also. A user can cancel his booking before 1 hour of bus

departure. By applying these criteria the transportation management authority can see the need for the buses per route. Thus the requirement will be fulfilled along with preventing consumers hassle and the buses will be utilized properly.

### 3. Project Requirements:

The resources required to finish the project are given below:

- Application Framework: React.
- Language: JavaScript, REACT JS, Html, CSS, Bs5, React Bootstrap.

#### Other Software Requirements include:

- OS: Windows XP/Windows 7/ Windows 10/ Windows 11.
- IDE: Visual studio, Android studio.
- SOFTWARE: Xampp.

#### Hardware Components:

- Hard Disk/ SSD – 120 GB.
- Memory – 4/8/16 GB RAM.

### 4. Work Plan:

After receiving the approval for our project, we will divide our work as follows:

Timeframe	Action
April– May	Learn HTML, CSS, JavaScript

May – July	Learn React Js, React Bootstrap and React
July - November	Application Development
November – December	Testing & Debug The Application

### **Conclusion:**

As we have chosen our project based on our real-life issue and could not find any solution. So we believe that by implementing this we can solve this major issue. As transportation is related to both Authority and user so both will be benefited from this. In the future, our neighbour schools/colleges/ universities may take this service from us who provides transportation for their user.

**--- THE END ---**