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**Course-Code :** CSE-3638  
**Course-Title:** Software Engineering Lab  
**Course Teacher:** Prof. Dr. Engr. Abdul Kadar M. Masum  
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**Team HHJN**

## **Problem Statement:**

We want to create a web-based application for any institution that manages a huge amount of crowd and transportation. A simple website that will be responsive to all mainstream devices making it easy for users to interact with. The users will be able to check all the possible routes and all the available bus and drop-off points. Our Bus Management System will solve the following issues:

- Making it easy for users(e.g. Students) to find their designated buses for their preferred route.
- Look out for bus schedules and the assigned buses for the odd timing
- Check for buses if they are leaving the venture out of schedule making it easy if any user wants to take buses to any route that is available.
- For the admin panel, it will be easy to maintain all the buses and look out for sudden changes, and letting every student know will be easier as they will be notified beforehand.
- Our service will also contain data of regular passengers which will give out mean data for regular routes and will give the enterprise a draft idea if they need more vehicles or not.

## **Front-end:**

To keep our software clean and easy to use we will not use any framework. That will make things easier for us too. For the user side, we will be using basic HTML, CSS, Bootstrap, and Javascript.

## **Back-end:**

For the backend, we will use MySQL (XAMPP) for the Database. For server-sided dependencies, we will use PHP.

## **Base Software:**

We have taken this idea from various online ticketing services like Sohoz, BDtickets, and other various transportation services that use online ticketing services.