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**SOFTWARE ENGINEERING PROJECT PROPOSAL**

Transport Management System

# Group Members

Mustafa Manga 17K-3795 Section D

Huzaifa Abid 17K-3807 Section D

Danish Abdullah 17K-3720 Section D

# Introduction

Our project will focus on creating a generalized platform for organizations to manage their transport service. It will provide a much faster and easier way for transport providers to manage records, registration process, payment process, vehicles, and drivers. It will make it easier for users to communicate with the transport management in case of any problems. Some solutions to basic problems will also be provided within the portal.

# Core Features

**Registration**

A registration form for students and faculty will be provided to gather all the necessary details. The number of remaining seats will also be shown at registration stage, in case no seats are available then the registration will not succeed.

**History**

History of registered students and their payment will be kept within the portal.

**Add, Delete and Modify**

Admin will be allowed to do any modifications to the records or payment details etc.

The admin can search for a specific record to make the process faster. Admin can cancel registration of any registered person at any time.

**Contact Us**

A complaints and suggestions form will be present to contact the management in case of any problem. Students and faculty can also rate the driver of their route.

**Details**

Details about the routes, vehicles and the drivers will be provided to the students and faculty to make it easier for them to communicate.

**Email**

Email verification will be done at the time of sign up. Only valid emails from the Universities’ domains will be allowed to sign up. Email will also be sent at the time of any modification to the user’s details.

**Live Tracking**

Smartphone-based application will also be made for the driver. Driver’s phone will be tracked using GPS (without the need of internet connectivity) and the location will be sent via SMS to all the registered users informing them about the stop at which the vehicle is at that time.

# Work Breakdown Structure

1. Transport Management System
2. Requirements Gathering
3. Approval of Requirements and Adjusting Modifications
4. Analysis and Design
5. Web Development
   1. Frontend UI
      1. Login, Signup and Registration Forms
      2. Admin Portal
      3. Student Portal
      4. Faculty Portal
      5. Generating Fee Challan PDF
   2. Backend Software
      1. Database Implementation
      2. Security and Password Encryption
      3. Adding Admin Privileged Functions
      4. Email Verification System
   3. Integration
6. Mobile Application Development
   1. Driver Portal UI
   2. Fetching Data from Website and Storing Internally
   3. Continuous Location Tracking using GPS
   4. SMS Sending System
7. Testing