**National University of Computer & Emerging Sciences**

**Karachi Campus**



**Metro Transport Management System**

**Project Proposal**

Section 2F

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**Introduction**

A Metro Transport Management System to manage bus and train operations with passenger and station administration in a menu-driven manner.

**Existing System**

Current systems lack integration, have manual inefficiencies, and limited passenger tracking.

**Problem Statement**

Address inefficiencies by integrating bus and train management with file handling for better data management.

**Proposed Solution**

A class-based, menu-driven system with file handling for data persistence and efficient metro transport management.

**Salient Features**

* **Classes:** Vehicles, System, Station, Bus, Train, Passenger
* **Features:** Menu-driven interface, File handling, Multi-mode transport, Passenger management, Station management, Error handling & validation

**Tools & Technologies**

* **Programming Language:** C++
* **Data Management:** File handling (text/binary files)