ParkEase

Parking System App

Java FX Desktop Application Project Proposal

Submitted by

Mostofa Hasin Mahdi
223071109
31st Batch(A), Dept. of CSE

Submitted to

Tousif Hasan Lavlu
Lecturer
Dept. of CSE

Motivation

In many parking lots, tracking vehicle assignments and available slots is still done manually, causing confusion and inefficiency. ParkEase aims to digitalize parking management through a simple and user-friendly application.

Description

ParkEase is a JavaFX-based desktop application designed to help parking administrators manage parking slots, assign vehicles, and monitor availability in real time. The system provides login and signup functionalities, intuitive dashboards built with Scene Builder, CRUD operations for parking slots and vehicles, and a connected MySQL database to store persistent information. CSS styling will be used to enhance the UI.

Objectives

- Allow admins to sign up and log in securely.
- Enable admins to add, view, update, and delete parking slots.
- Assign vehicles to available slots and free up occupied slots.
- Maintain a real-time database of parked vehicles and slot status.
- Provide a clean and responsive GUI using JavaFX (FXML + Scene Builder).
- CSS to improve the visual experience.