

24SJPBCST304 OBJECT ORIENTED PROGRAMMING
Project Abstract

TEAM DETAILS			
Sl No	Class Roll No	University Reg. No	Name of the Student
1	19	SJC24CS048	Amal K Philip
2	42	SJC24CS126	Jacob Thomas
3	53	SJC24CS158	Lesly Mathew
4	54	SJC24CS159	Levin Abraham Jacob
PROJECT DETAILS			
Project Title Parking Management System			
<p>Project Abstract:</p> <p>Parking Management System is a Java Swing and MySQL-based desktop application that automates the process of managing parking slots, vehicle bookings, and payments for both users and administrators in conformity with Model–View–Controller (MVC) architecture. The Model part manages the data and business logic using classes such as Database and Slot, which take care of connections, queries, and object representations of parking slots. The View part, implemented utilizing Java Swing (Login Frame, Manager Dashboard Frame, User Dashboard Frame, Update Slot Frame, and Payment Frame), offers an interactive and user-friendly graphical interface to conduct different operations like booking, parking, and releasing the vehicles. The Controller part handles user interactions by handling events from buttons and forms, performing corresponding database operations, and updating the views accordingly. This concerns separation guarantees increased maintainability, scalability, and modularity, making the system simple to extend for long-term additions like database-driven user login, report features, and integration on the web.</p>			