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**Swinburne Car Parking System**

# Introduction

The Swinburne Car Parking System is a graphical user interface (GUI) application designed to manage and monitor parking slots in a car parking facility. This system provides functionalities to list all parking slots, park cars, find cars by registration, add and delete parking slots, remove cars, and exit the application.

# Getting Started

Before using the Swinburne Car Parking System, please ensure you have Java installed on your computer. You can download and install Java from the official website: https://www.java.com

# Running the Application

1. Download the source code or the compiled JAR file of the Swinburne Car Parking System.
2. Compile and run the application:

* If you have the source code, compile it using a Java compiler (e.g., javac) and then run the compiled Java class (e.g., java ParkingSlotGUI).
* If you have a JAR file, simply run it using the java -jar command (e.g., java -jar ParkingSlotGUI.jar).

1. The GUI application will open, providing you with a user-friendly interface for managing parking slots.

# Using the Application

The Swinburne Car Parking System GUI offers the following features:

1. List all slots: Click this button to view a list of all parking slots, their occupancy status, owner type (Staff/Visitor), and car details (if occupied).
2. Park a car: Use this button to park a car in a parking slot. You will be prompted to enter the slot ID and car registration.
3. Find a car by registration: Search for a car by its registration number. Enter the registration number in the prompt.
4. Add a parking slot: Add a new parking slot to the system. Enter the slot ID when prompted.
5. Delete a parking slot: Delete an existing parking slot from the system. Enter the slot ID when prompted.
6. Remove a car: Remove a car from a parking slot by entering its registration number.
7. Exit: Click this button to exit the application.

Note: Parking slots are represented by buttons in the GUI. Clicking on a parking slot button will display detailed information about that slot.