User Guide – Smart Parking App

Purpose: Provide step-by-step operating instructions for using the Smart Parking mobile application.

Language: English

# 1. App Purpose

The Smart Parking mobile application helps students and lecturers reserve parking spots efficiently within the college premises.

# 2. User Roles

- Student  
- Lecturer

# 3. Main Functionalities

- Sign in / Sign up  
- Check parking availability  
- Make a reservation  
- View personal reservations  
- Run simulation (optional if enabled for general users)

# 4. Nominal Use Case (Successful Flow)

Step-by-step Instructions:

1. 1. Open the App:  
    - Launch the app on your mobile device.
2. 2. Login or Sign Up:  
    - New users: Register with name, ID, email, and password.  
    - Existing users: Login using credentials.
3. 3. Check Availability:  
    - Navigate to the Reservation tab.  
    - Choose a date, start time, and end time.  
    - The system shows available slots.
4. 4. Make a Reservation:  
    - After selecting the date and time, click Reserve.  
    - You’ll receive confirmation and see your booking in 'My Reservations'.
5. 5. View Reservations:  
    - Tap My Reservations to see all your active and past bookings.
6. 6. Arrival Confirmation (If required):  
    - Click 'Confirm Arrival' within the allowed window (usually 10 minutes before or after the start time).
7. 7. Simulations (If Available):  
    - Go to the Simulation tab.  
    - Adjust scoring (if allowed).  
    - Press 'Run Simulation' to view performance estimation.