**Project Title:**Smart Parking

**Project Steps**

**Phase 1: Project Definition and Design Thinking**

**Project Definition:**The project involves integrating IoT sensors into public transportation vehicles to monitor ridership, track locations, and predict arrival times. The goal is to provide real-time transit information to the public through a public platform, enhancing the efficiency and quality of public transportation services. This project includes defining objectives, designing the IoT sensor system, developing the real-time transit information platform, and integrating them using IoT technology and Python.

**Design Thinking:**

1. Project Objectives: Define specific objectives such as real-time parking space monitoring, mobile app integration, and efficient parking guidance.
2. IoT Sensor Design: Plan the design and deployment of IoT sensors in parking spaces to detect occupancy and availability.
3. Real-Time Transit Information Platform: Design a mobile app interface that displays real-time parking availability to users.
4. Integration Approach: Determine how Raspberry Pi will collect data from sensors and update the mobile app.