

Internet Of Things – Group1

Smart parking

Team members:

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Project title: Smart Parking

Phase 1: Problem Definition and Design Thinking

In this part you will need to understand the problem statement and create a document on what have you understood and how will you proceed ahead with solving the problem. Please think on a design and present in form of a document.

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.

