IBM NAAN MUDHALVAN – INTERNET OF THINGS(IOT)GROUP 4

Phase 1:

Project Submission

Topic:

Smart parking

Team members:

M. Sabitha jones(922121106075)

A. Santhi (922121106079)

B. Sathyadevi(922121106084)

K. Varnigadevi (922121106102)

M. Varsha (922121106103)

College name:

SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY, DINDIGUL

College code: 9221

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:

Project Objectives:

Define specific objectives such as real-time parking space monitoring, mobile app integration, and efficient parking guidance.

IoT Sensor Design:

Plan the design and deployment of IoT sensors in parking spaces to detect occupancy and availability.

Real-Time Transit Information Platform:

Design a mobile app interface that displays real-time parking availability to users.

Integration Approach:

Determine how Raspberry Pi will collect data from sensors and update the mobile app.