Python code :

1. \*\*Install Flask:\*\*

Ensure you have Flask installed by running:

\*\*\*bash

Pip install Flask

1. \*\*Python Script (smart\_parking.py):\*\*

\*\*\*python

From flask import Flask, jsonify, request

Import random

Import threading

Import time

App = Flask(\_\_\_name\_\_\_)

Parking spots = [0] 10 # Represents 10 parking \*

Spots, initially all vacant

Def simulate\_iot\_data():

Global parking spots

While True:

# Simulate loT data (occupancy: 0 for vacant, 1 for occupied)

Parking spots = [random.randint(0, 1) for in range(10)]

Time.sleep(5) # Simulate data update every 5 seconds

@app.route(‘/parking, methods=[‘GET’])

Def get\_parking\_status():

Global parking spots

Return jsonify({parking\_status: parking spots))

If \_\_name\_\_ == ‘\_\_main\_\_’:

# Start loT data simulation in a separate thread

Jot\_thread =

Threading.Thread(target=simulate\_iot\_data)

Jot thread.daemon = True

Lot thread.start()

# Run the Flask app

App.run(debug=True)

1. \*\*Run the Script:\*\*

Run the script using:

\*\*\*bash

Python smart parking.py