Phase1:Environmental Monitoring

Project seeks to utilize IoT technology and design thinking principles to create a seamless and valuable experience for park visitors. Through the deployment of IoT sensors and the development of an intuitive environmental monitoring platform, it aims to improve the overall park experience, encouraging more people to enjoy outdoor activities and connect with nature.

import random

import time

# Simulated environmental data generation

def generate\_environmental\_data():

temperature = random.uniform(10, 40) # Simulated temperature data (in Celsius)

humidity = random.uniform(30, 80) # Simulated humidity data (in percentage)

return temperature, humidity

# Main loop to continuously collect and print data

while True:

temperature, humidity = generate\_environmental\_data()

# You can replace this with code to send data to your IoT platform

print(f"Temperature: {temperature:.2f}°C, Humidity: {humidity:.2f}%")

# Adjust the time interval as needed (e.g., every 5 minutes)

time.sleep(300) # Sleep for 5 minutes (300 seconds)