ModCradel Loyihasini Backend va Fronted qismini dasturiy

Ko’d qismi.

Backend Phyton orqali yozildi.

import time

import threading

from your\_sensor\_library import SoundSensor, MotorController, Display, SMS, TemperatureSensor, LightSensor

class SmartCradle:

def init(self):

self.sound\_sensor = SoundSensor()

self.motor\_controller = MotorController()

self.display = Display()

self.sms\_service = SMS()

self.temperature\_sensor = TemperatureSensor()

self.light\_sensor = LightSensor()

self.user\_phone\_number = '998901234567' # Foydalanuvchi telefon raqami

self.lullaby\_mode = False

def start(self):

usage\_time = int(input("Beshik foydalanish vaqtini kiriting (minutda): "))

self.run\_cradle(usage\_time \* 60)

def run\_cradle(self, duration):

start\_time = time.time()

while time.time() - start\_time < duration:

sound\_level = self.sound\_sensor.get\_sound\_level()

temperature = self.temperature\_sensor.get\_temperature()

light\_level = self.light\_sensor.get\_light\_level()

if sound\_level > 25:

self.display.show\_message("Uhla bolajon")

self.motor\_controller.swing(30) # 30° chapga va o'nga burilish

self.lullaby\_mode = True

if sound\_level > 30:

self.play\_lullaby\_or\_quran()

if sound\_level > 40 and time.time() - start\_time > 60:

self.sms\_service.send\_sms(self.user\_phone\_number, "Bolangiz yig'layapti, iltimos tezroq keling")

else:

self.display.clear\_message()

self.motor\_controller.stop\_swinging()

self.lullaby\_mode = False

if temperature > 26 or light\_level < 10:

self.adjust\_environment(temperature, light\_level)

time.sleep(1) # Har bir tekshiruvdan keyin 1 soniya kutish

def play\_lullaby\_or\_quran(self):

# Qur'oni Karim suralari yoki ona allasi qo'yish

pass

def adjust\_environment(self, temperature, light\_level):

# Harorat va yorug'lik darajasiga qarab muhitni sozlash

pass

# Asosiy dastur

if name == "main":

cradle = SmartCradle()

cradle.start()

Fronted qismi.

// HTML

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>ModCradle</title>

<link rel="stylesheet" href="styles.css">

</head>

<body>

<div class="cradle">

<div class="glass-top"></div>

<div class="content">

<h1>ModCradle</h1>

<p>A futuristic cradle with modern features</p>

<div class="monitor-screen">

<!-- Add your interactive content here -->

</div>

</div>

</div>

</body>

</html>

// CSS (styles.css)

body {

font-family: Arial, sans-serif;

margin: 0;

padding: 0;

background-color: #f0f0f0;

}

.cradle {

position: relative;

width: 400px;

height: 300px;

margin: 50px auto;

background-color: #fff;

border: 1px solid #ccc;

border-radius: 10px;

box-shadow: 0 2px 5px rgba(0, 0, 0, 0.1);

}

.glass-top {

position: absolute;

top: 0;

left: 0;

width: 100%;

height: 50px;

background-color: rgba(255, 255, 255, 0.5);

border-top-left-radius: 10px;

border-top-right-radius: 10px;

}

.content {

padding: 20px;

}

h1 {

font-size: 24px;

margin-bottom: 10px;

}

p {

font-size: 14px;

color: #777;

}

.monitor-screen {

width: 100%;

height: 200px;

background-color: #000;

border-radius: 5px;

overflow: hidden;

/\* Add styles for the interactive content inside the monitor screen \*/

}