DEPARTMENT OF APEX INSTITUTE OF TECHNOLOGY

PROJECT PROPOSAL

1. Project Title: -

Smart Health Monitoring System Using IOT.

2. Project Scope: -

The project scope for the "Smart Health Monitoring System Using IoT" involves the integration of multiple sensors to monitor vital signs such as heart rate, temperature, and humidity. The data collected from these sensors will be sent to the cloud and made accessible to the user through a mobile app. The primary sensors used will be the heart rate sensor and the temperature sensor, integrated with an Arduino IDE platform.

The scope of the project encompasses the following key components:

- Integration of Multiple Sensors: The project will involve the integration of sensors to monitor vital signs, including heart rate, temperature and humidity.
- Cloud Connectivity: Data collected from the sensors will be transmitted to the cloud for storage and accessibility from the user's mobile app.
- Mobile App Interface: The user will be able to access the vital sign data through a mobile app, providing real-time monitoring of their health status.
- Analysis: The system will utilize the collected data to predict potential heart-related medical conditions, providing valuable insights for the user's health monitoring.

The project will leverage the Internet of Things (IoT) technology to create a smart health monitoring system that offers real-time health data and predictive analysis. By integrating sensors, cloud connectivity, and a mobile app interface, the system aims to provide users with a comprehensive and accessible solution for monitoring their vital signs and potential health risks.

3. Requirements: -

➤ Hardware Requirements
1. Breadboard, Jumper Wires.

2. Heart Rate Pulse Sensor Module.
3. DHT11 Temperature sensor.
4. ESP 8266 WiFi Module.

➢ Software Requirements:
1. Firebase.
2. Android Studio (JAVA).
3. Arduino IDE.
4. Internet Connectivity.

STUDENTS DETAILS

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APPROVAL AND AUTHORITY TO PROCEED

We approve the project as described above, and authorize the team to proceed.

NAME	TITLE	SIGNATURE (with date)
MR. GAURAV SONI (E9610)	SUPERVISOR	