INF 551 – Project Proposal

Sandeep Gundla Oluwaseun Deleawe January 28, 2019

IoT Theme: Smart Health – Personal Fitness

The three IoT devices below are designed to help the user actively monitor their health and stay fit.

IoT Device	Function	Data Collected	Command Sent
1258	Tracks exercise and health	Steps taken Heart rate Sleep duration Body temperature	Switch on/off Reset step count Disconnect
FitBit			
708	Tracks body weight	Weight	Switch on/off
Body Weight Scale			
	Tracks diet	Food categories (carbs, protein, fat)Calories count	Switch on/off
Smart Plate			

Architecture and Design



Control Panel



Backend Stack

DataBase: Google's FireBase Real time Database or MongoDB.

Server-side Languages: PHP and/or Python.

Group Formation

Group Member	Responsibility
Sandeep Gundla	 Design Control Panel, Communications between Cloud and Web clients Provision database in the cloud Backend web development
Oluwaseun Deleawe	IoT device architecture and design IoT device interaction design

Frontend web development	
--------------------------	--

Our group is equipped to implement the application by the end of the semester.

Milestones

Date	Milestone
Jan 28	Complete Proposal
Feb 18	Setup Control Panel frontend and backend prototype
Feb 25	Complete Control Panel frontend
Mar 25	Complete Midterm Report
Apr 13	Complete Control Panel backend
Apr 15	Run full app demo
Apr 22	Complete Final Report