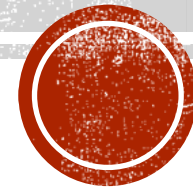


FIT FOODIE

AN INTERACTIVE HEALTH COMPANION

Team Members: AswinNatesh (111582677)
Nagaratna Kanavi (111675791)

Balraj Mahal (111498697)
Vishwatej Reddy (111446995)

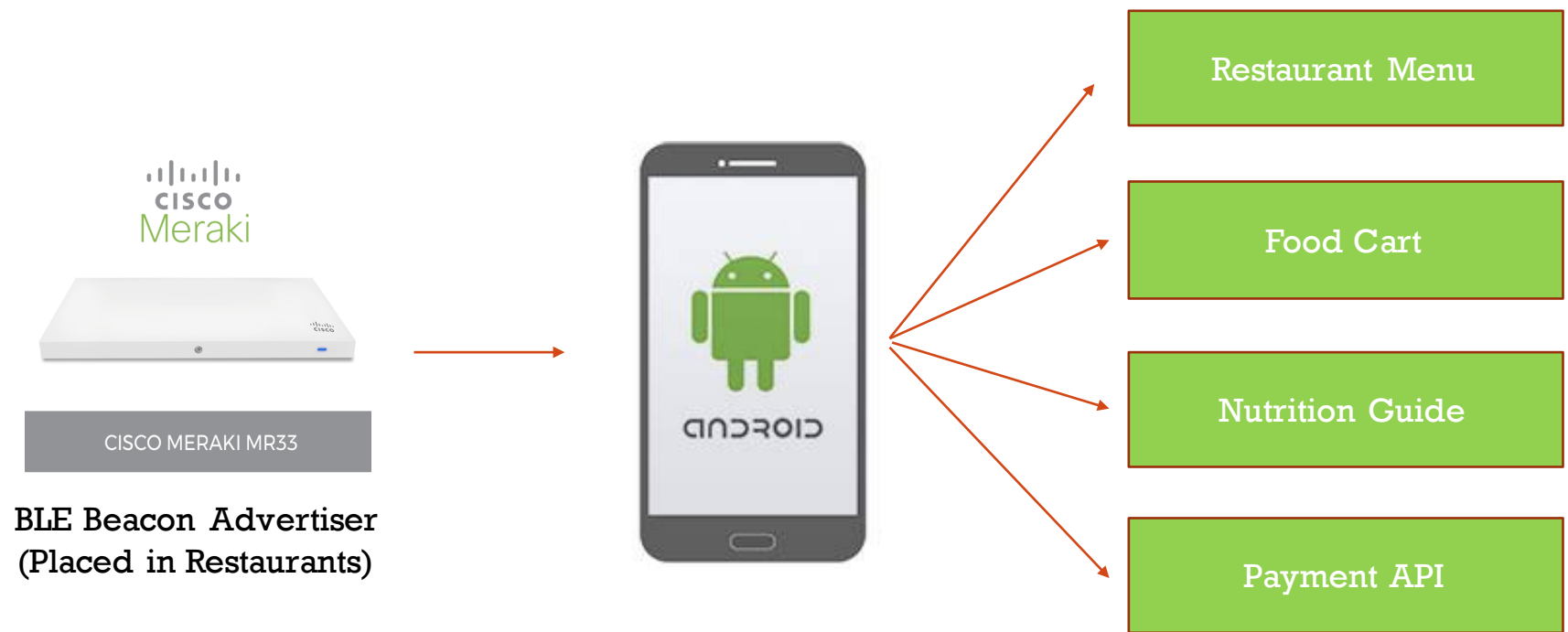


OBJECTIVE

- What do you eat on regular basis? This can go a long way in determining our quality of life.
- Inappropriate intake of calories (too high or too low) is a potential cause of dietary imbalance
- Our proposed solution, an Android Application helps the user stay on the top of his/her diet on the go. Fit Foodie can help you log your food consumption and warn in case of nutritionally imbalanced diet.
- In addition, the application detects nearby restaurants and loads its menu. It also provides provision to order food.



SYSTEM BLOCK DIAGRAM



TECHNOLOGIES & SERVICES USED

- Hardware Module
 - Meraki Cisco AP MR33 – iBeacon
- Software Module
 - Android
 - Nutritionix API,
 - Softheon Wallet API
 - Firebase



SYSTEM IMPLEMENTATION

- IoT Module

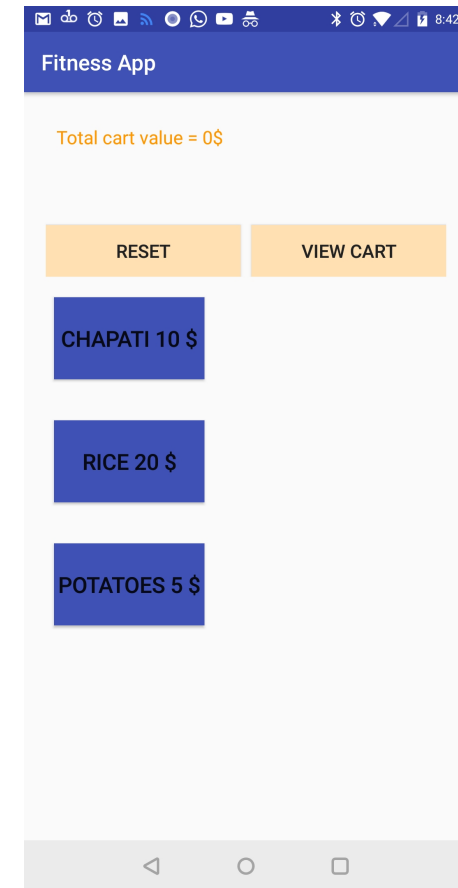
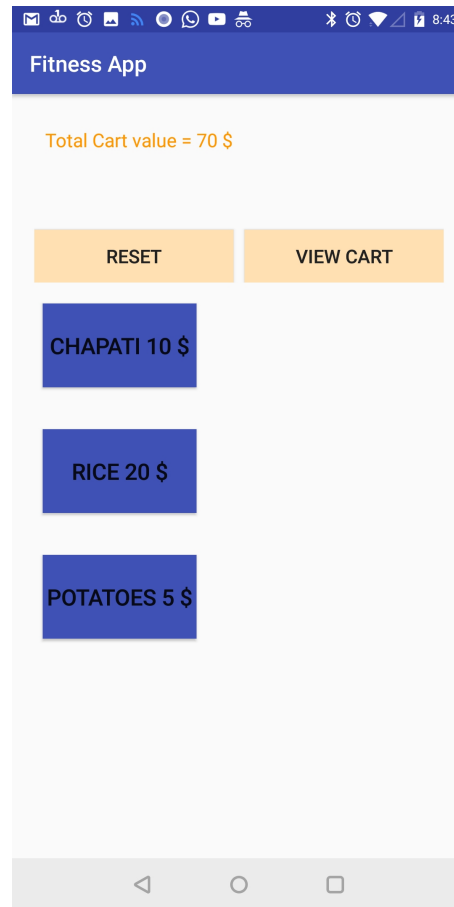
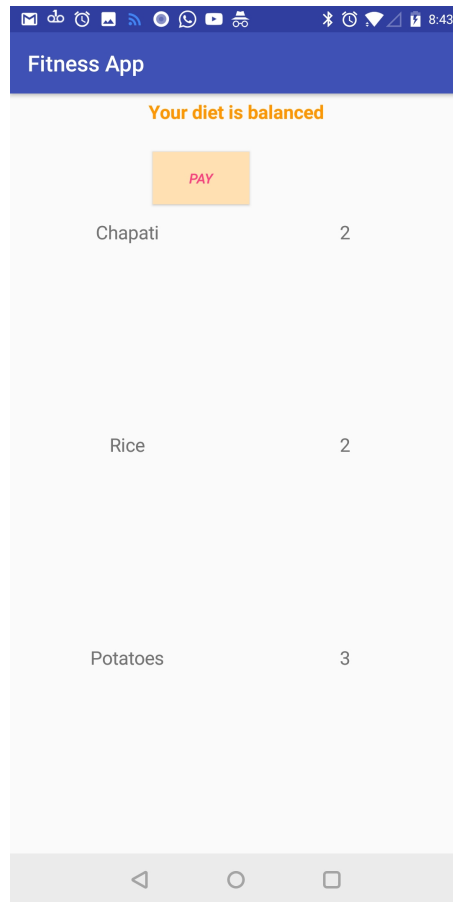
- Cisco Meraki MR33 (Cloud Managed 802.11ac Wireless Access Point)
- The proposed solution requires installation of this AP at Restaurants and Food Courts, which advertises Bluetooth Low Energy(BLE) Packets.
- These Packets are sensed by the BLE sensors in smart-phones and in turn, that particular restaurant's menu is displayed to the user through our android app.

- Android Module

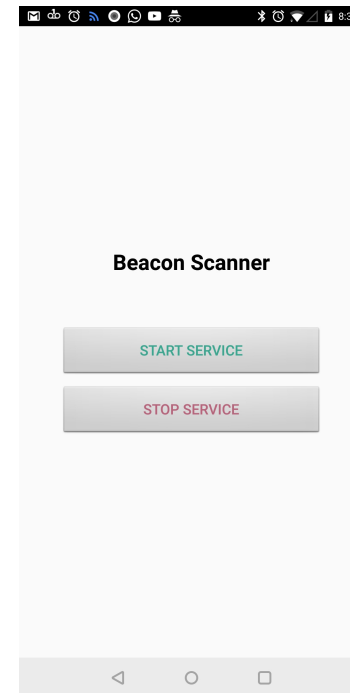
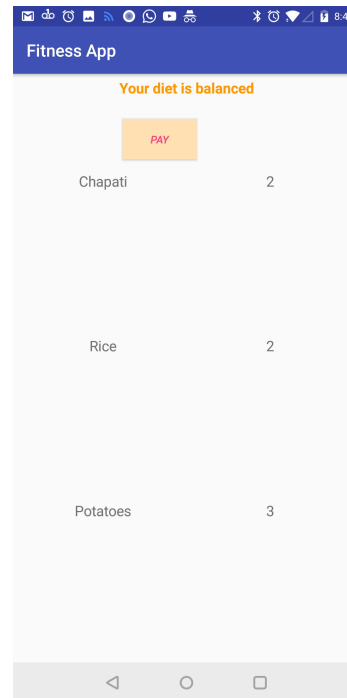
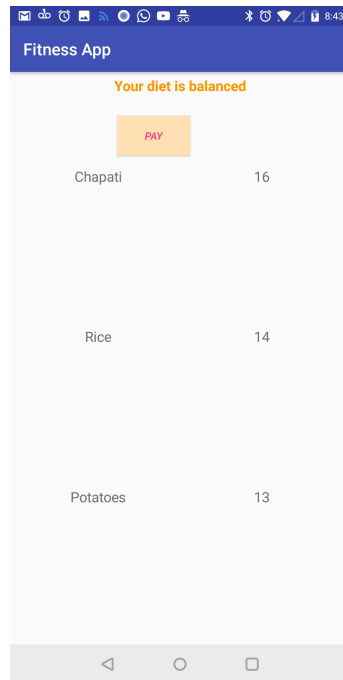
- Based on the beacon detected, the respective restaurants menu is displayed on the user's smart phone where in user can add items to their cart and place their order.
- In addition nutritional information is provided, based on his previous intake and current order



SCREEN SHOTS



SCREEN SHOTS



CHALLENGES

- Interfacing Meraki Cisco AP with Piper Application
- Due to few limitations of Piper App, we decided to develop our own BLE Scanner Service.
- Integrating Nutritionix API to our Android application.
- Configuring and setting up Softheon Wallet API to process the food payments.



CREDIT TO ORGANIZERS

- We wish to thank,
 - CEWIT for this opportunity
 - Meraki Cisco for the IoT Hardware
 - Softheon for the Wallet API Gateway
 - All the Enriching Tech Talks!



THANK YOU!!

