My Fitness Friend

By Aaron Serpa, Lifan Zeng & Lolitha Sresta Tupadha

General Concept

Life is hectic

Health isn't a priority

~72% of US adults are overweight

Over 300,000 deaths per year are caused by obesity in the US



Technology is the problem...



People spend more time sitting than ever

Technology has made life easy, but also made us sedentary

The average person looks at their phone for 3.25 hours a day

And 6.3 hours looking at screens in general.

... and the answer!

There is an app for everything

Fitness is no exception

There are plenty of calorie and weight tracking apps, but many are shallow

None offer an in depth exploration of fitness and nutrition.



MyFitnessFriend

- Registers with the application
- Tracks food consumption per day
- Provides with ability to store nutritional value of different foods
- Logs user weight

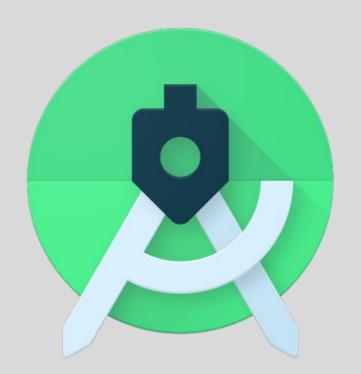
Basic overview

Over 10 activities/ screens

Utilizes both SQlite and Firebase

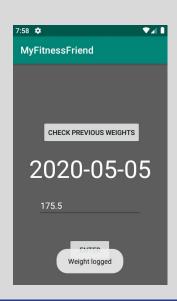
Recyclerview

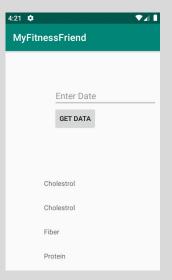
Reusable activity screens



Clean UI Layout

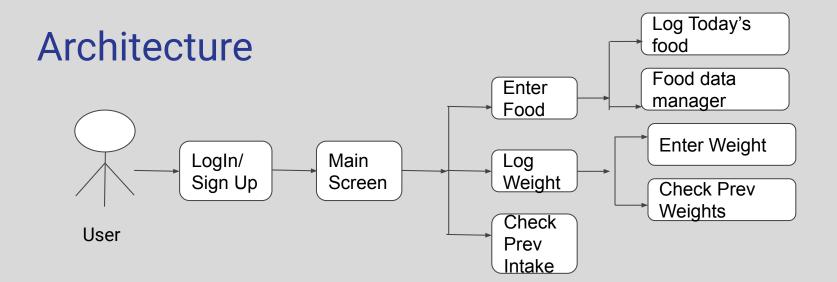






Simple to follow, visually pleasing UI

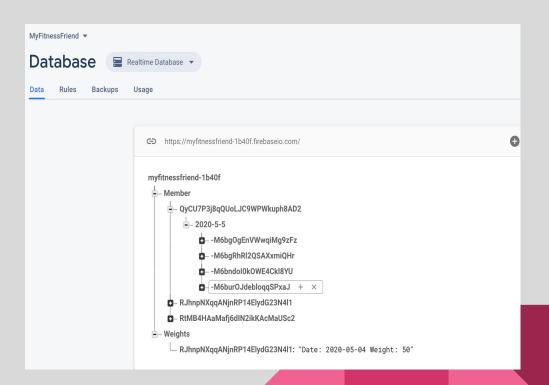
App layout flows naturally.



Firebase

• To perform user login

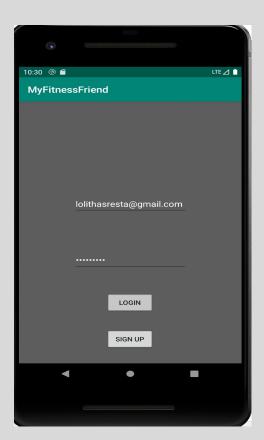
To store user's details

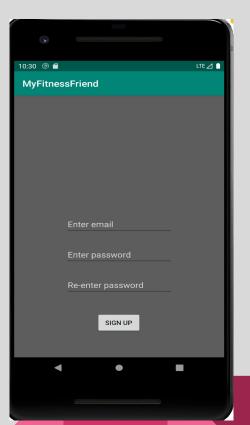


Login/SignUp Screen

Implemented with Firebase

 Login details are not stored on device for security

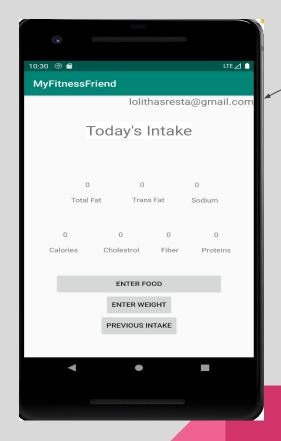




Main Screen

 Displays present day's food intake of user

Main Screen to navigate to all other screens

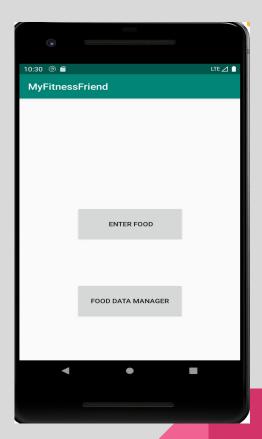


User Account

Enter Food Activity

Log today's food intake

Navigate to Food data manager

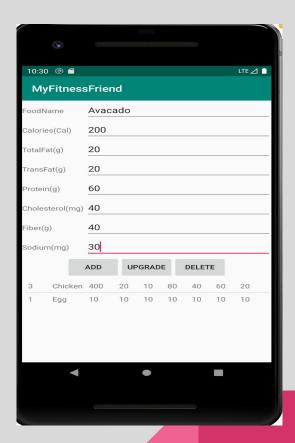


Food Data Manager Activity

Enter details about each food item

Enter once, use anytime

Uses SQLite to store this data



Food Data Manager

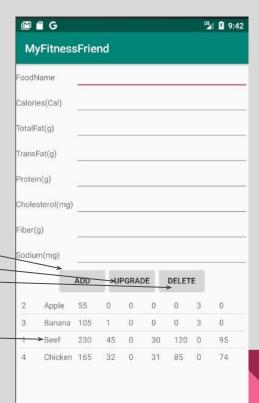
Operation

.Creation -

.Update ___

.Delete

.Read



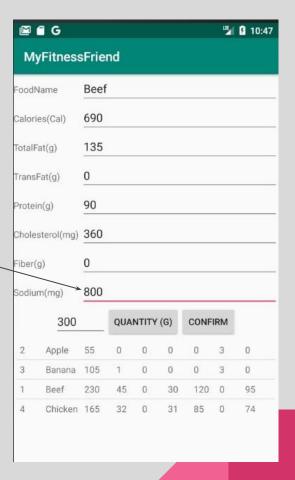
Food Enter

Adjust:

For example,

When the beef is very salty, we can adjust the number of sodium from 285 to 800, or other number.

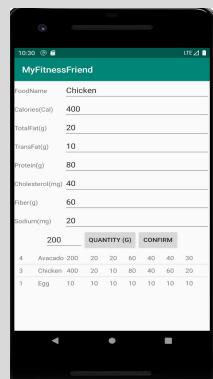
Then click Confirm the numbers will be sent to Main Screen.

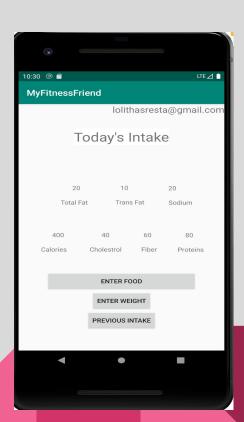


Food Consumption Activity

 Details from SQLite db are retrieved and displayed here in listView

 User can enter quantity in grams on clicking confirm, nutritional value is added to today's intake





Previous Intake Activity

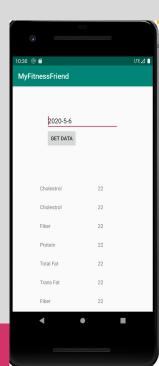
 Uses DatePicker to choose date

 Retrieve data from SQLite db and display

 If no data is present for that date, show 0



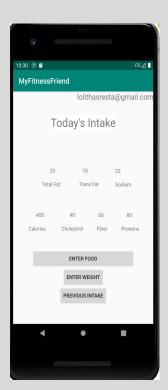




Log Weight Activity

 User can enter his weight on particular day

 On click of Check Prev Weights, all logged in weights are retrieved and displayed in recyclerview







Challenges Encountered

Creating simple UI

Firebase

DataFlow between Activities

Conclusion & Future Work

Designed application that meets our initial goals

Calculate BMR of user and suggest about food intake

Track fitness activity of user