

BetterAll

CS492 SENIOR DESIGN PROJECT

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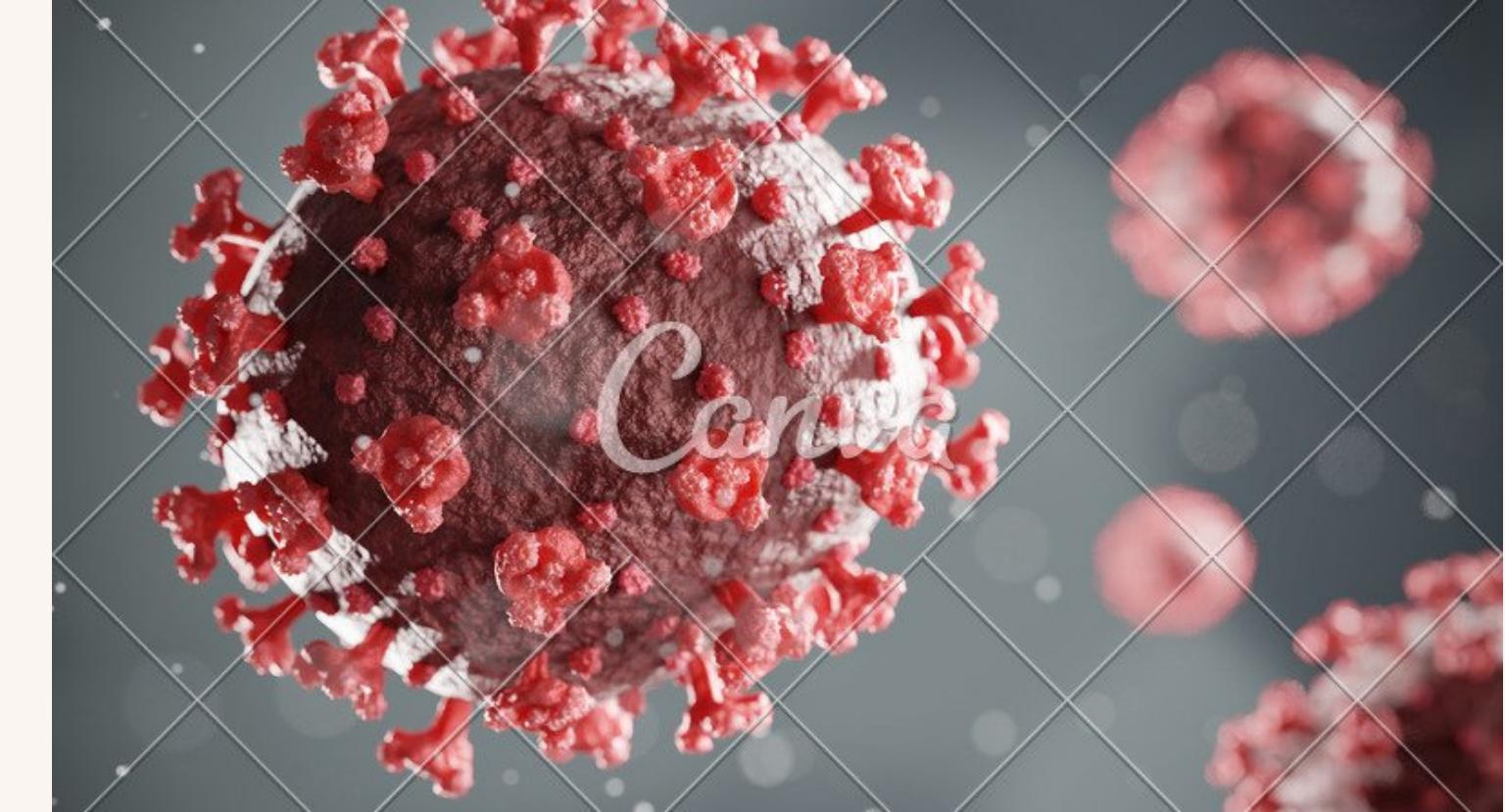
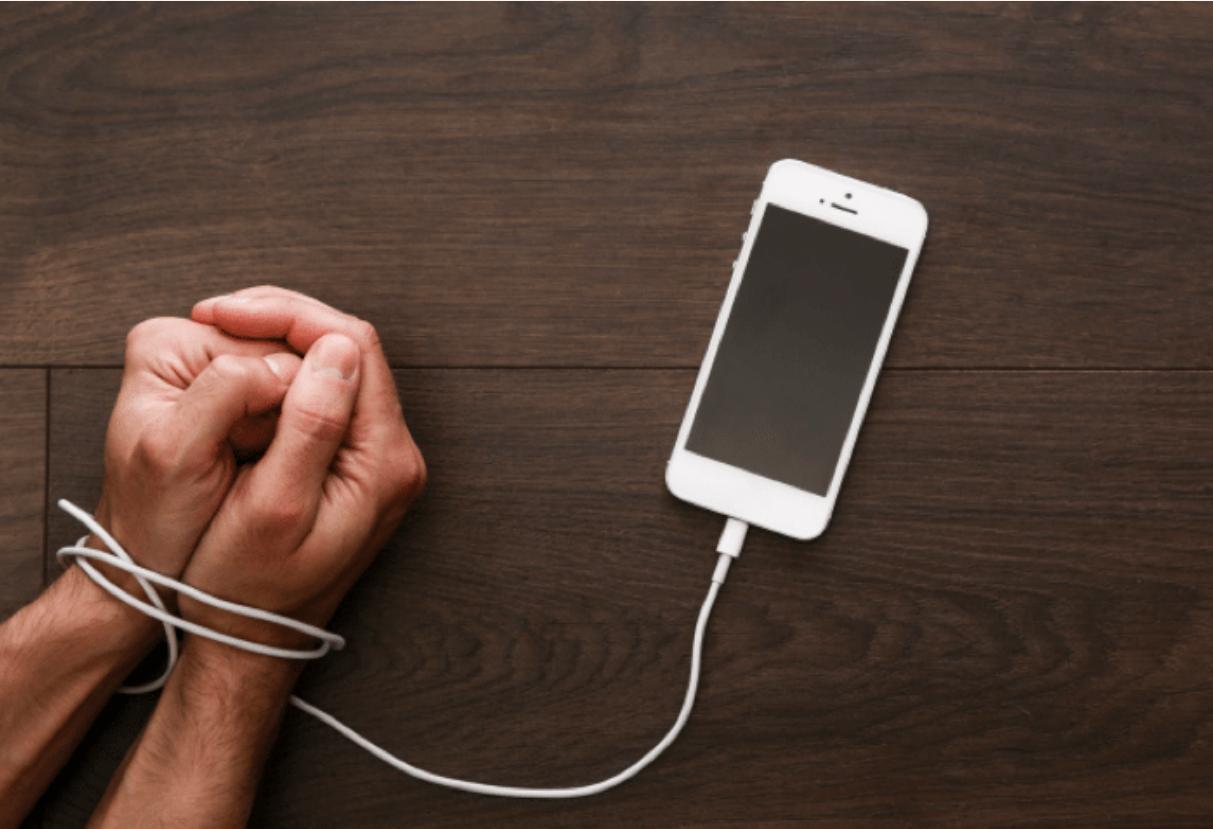


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What is the problem?

- COVID-19 related issues
- People are getting irresponsible of their own health
- People prefer to see and find solutions with minimum effort
- People all around the world are getting bound to their smartphones



What is BetterAll?

- Contribution to human health & wellness
- Unique diet plan for the us

Purpose

Assisting its users in the areas of body health and diets

Target Audience

From all ages who regularly follow their health habits and regular nutrition techniques





Innovation

- All In one app
- Unique lists for users
- Easy Access to health and diet services

Computer Engineering Perspective

- Automatization of manually done actions such as calculating body fat ratio
- Using APIs in a logical manner to automatize generating meal plans for people to obtain healthy habits.

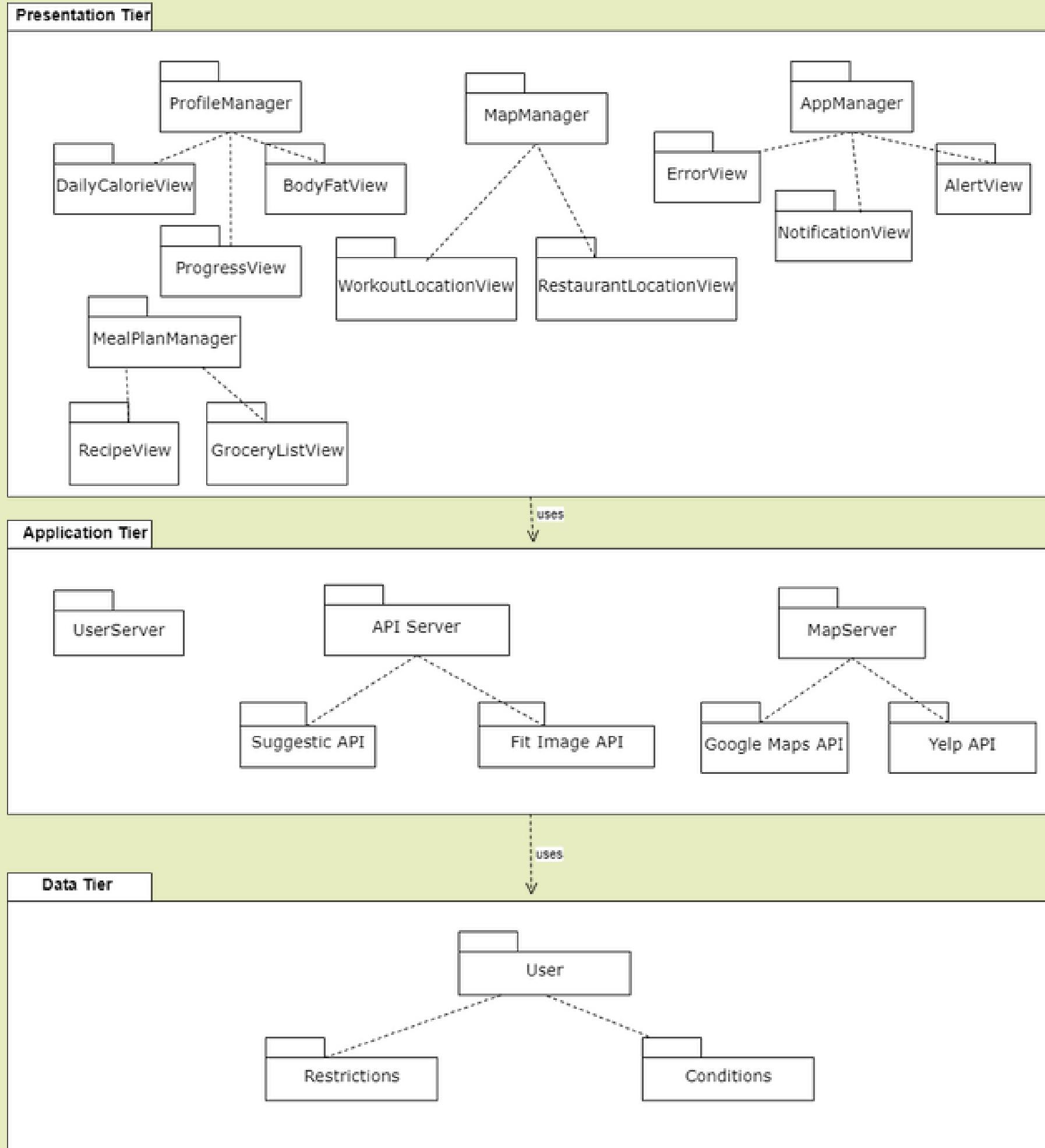


Challenges/Implementation Constraints

What We Have Faced During Development?

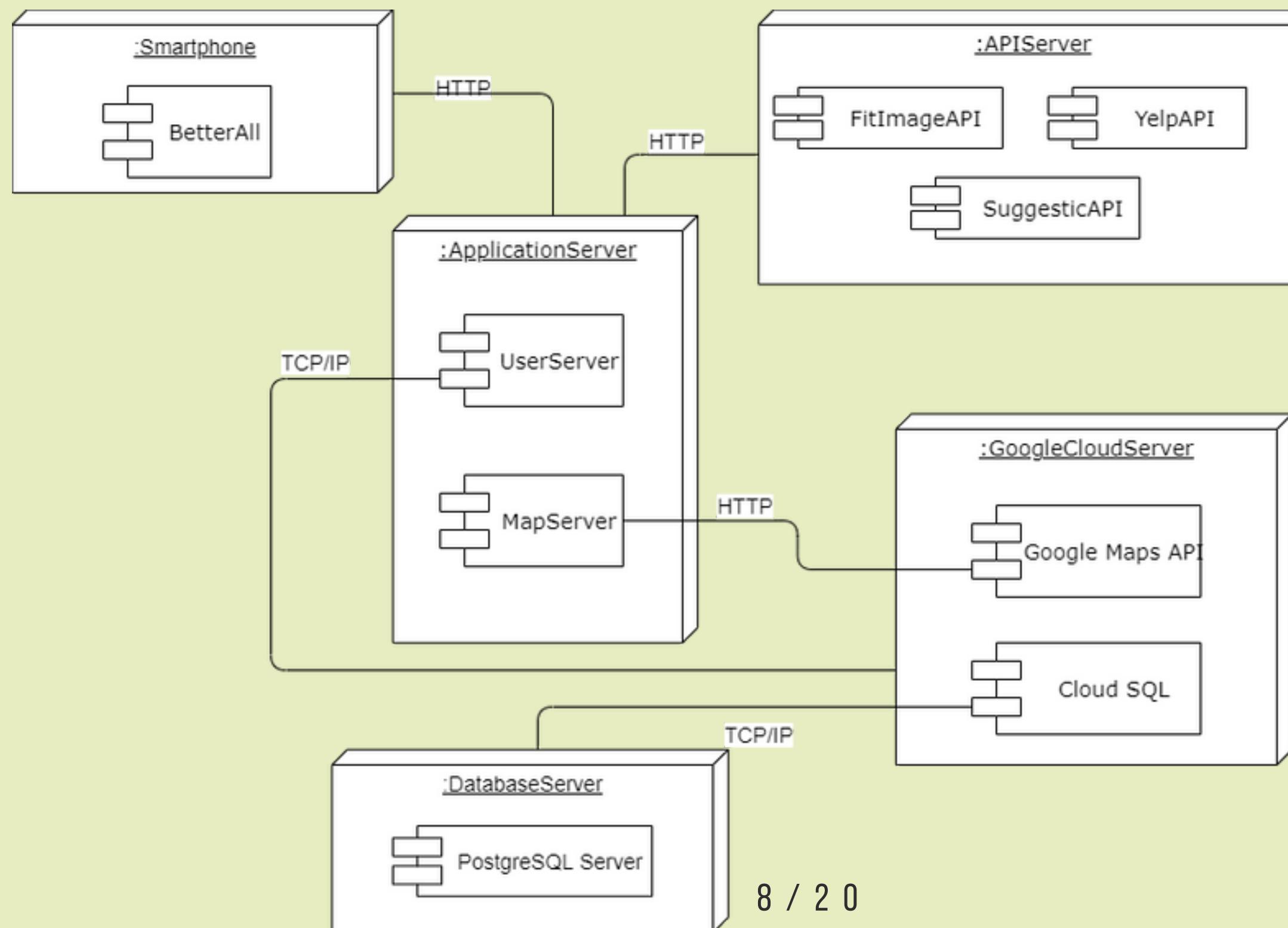
- ✓ Lack of datasets
- ✓ Poor computer performance
- ✓ Network connection problems
- ✓ Inconsistency in responses from APIs
- ✓ Lack of documentation of third party applications
- ✓ Configuration and dependency related issues
- ✓ Incompatibility of the modules across different operating systems

Subsystem Decomposition



- The hierarchy of the packages has changed.
- Some packages related to Meal Plan generation are removed because we decided to use an API.

Deployment Diagram



Features/Functional Requirements



Meal Plan
Suggestion



Calorie Calculation

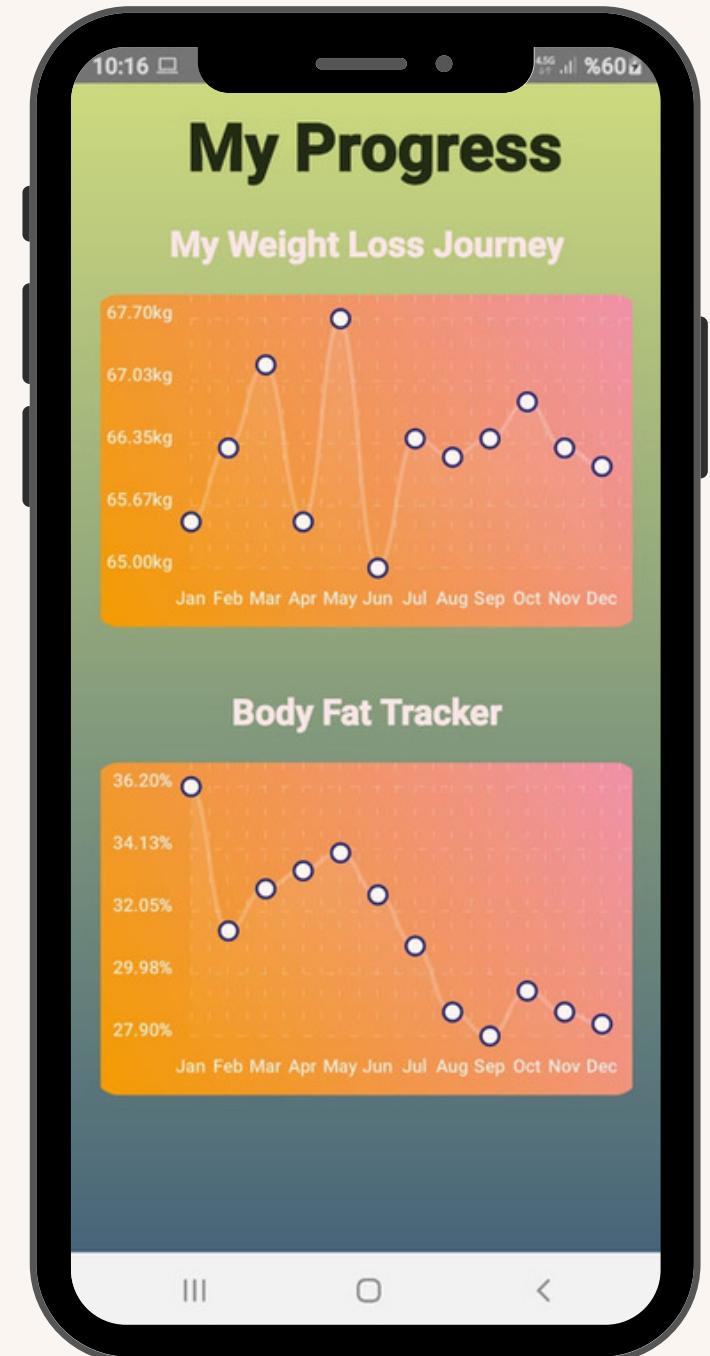
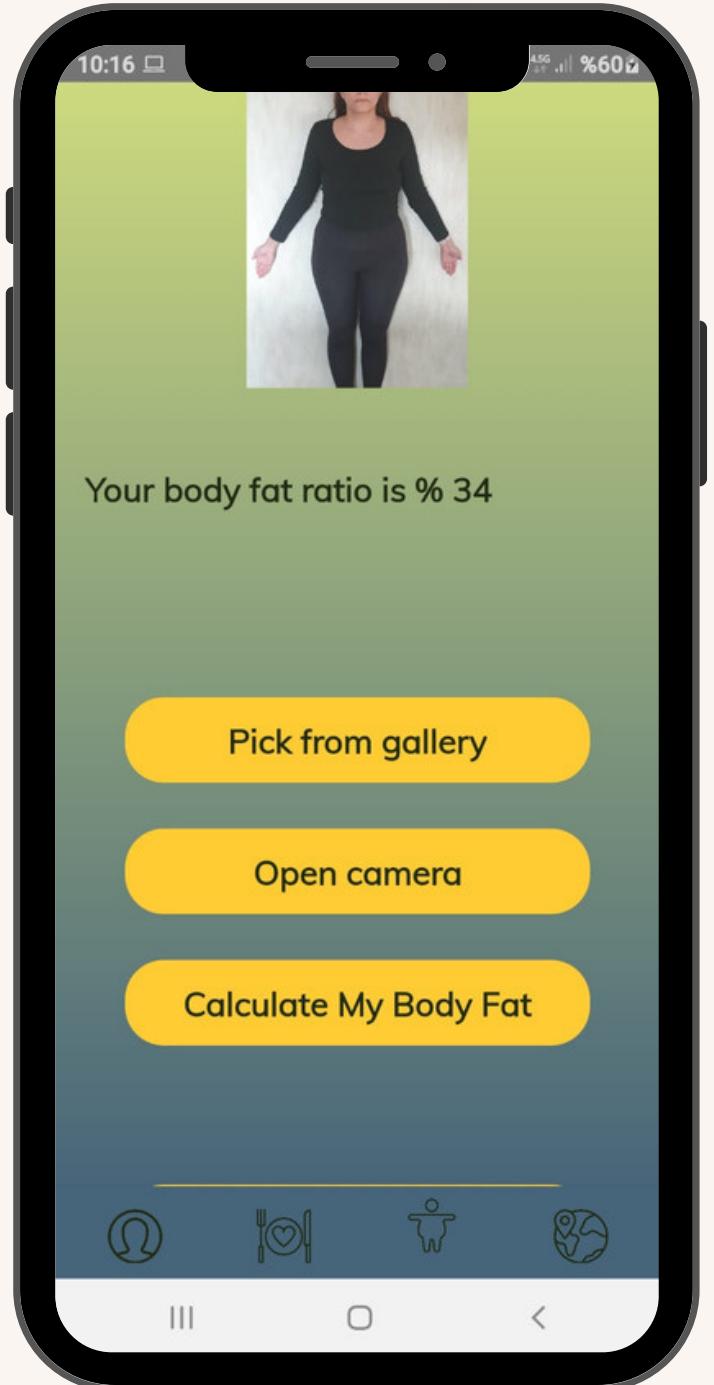
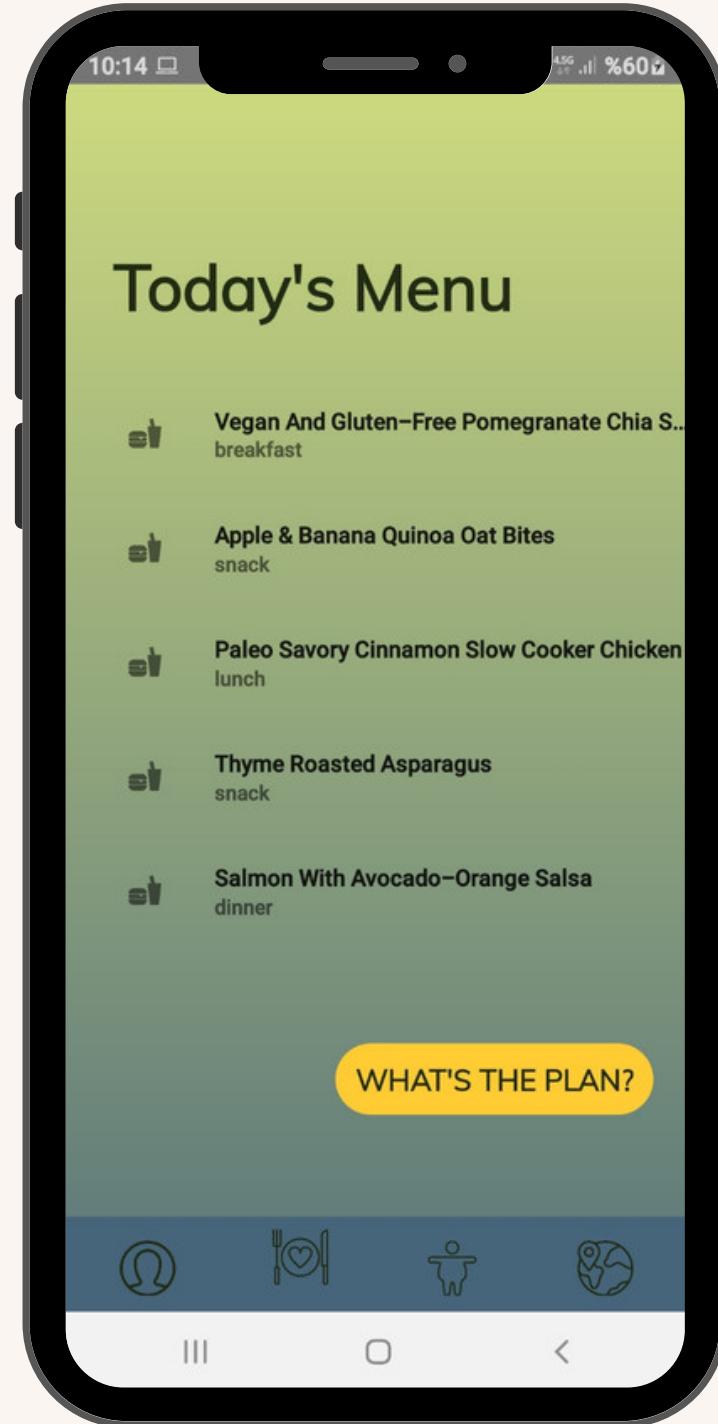


Body Analysis

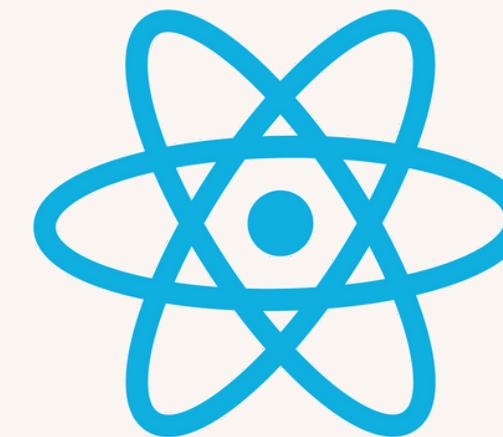


Progress Tracking

Features/Functional Requirements



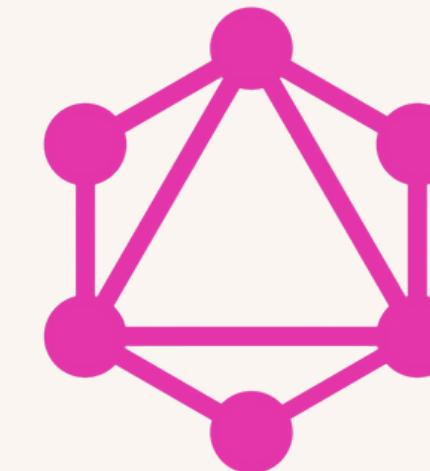
TECHNOLOGIES USED



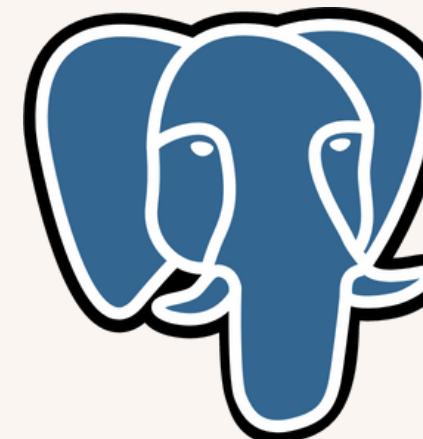
REACT NATIVE



JAVA SPRING



GRAPHQL



POSTGRESQL



GOOGLE CLOUD
SQL

TECHNOLOGIES USED



ATLASSIAN
JIRA



SLACK



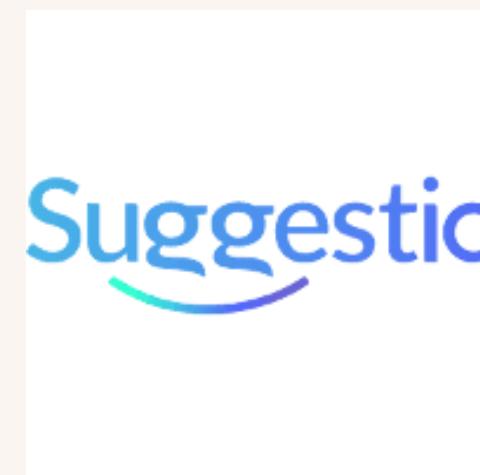
GOOGLE CLOUD
APP ENGINE



POSTMAN

POSTMAN

API SERVICES



SUGGESTIC API



YELP API



FITIMAGE API



GOOGLE MAPS API

ALTERNATIVE SOLUTIONS

- ✓ Implementing a machine learning algorithm that acts according to the user's liked items.
- ✓ Implementing a simple notification application that reminds the user to make healthy choices.
- ✓ Implementing an interactive website where users can learn about the practice of well-being

THE REASONS BEHIND OUR CHOICES

- ✓ The API we use makes choices based on users' preferences, not choices.
- ✓ We decided on making a mobile phone application to increase availability.
- ✓ We decided on emphasizing how users' progress would look like with the healthy choices they can make.

CONSTRAINTS

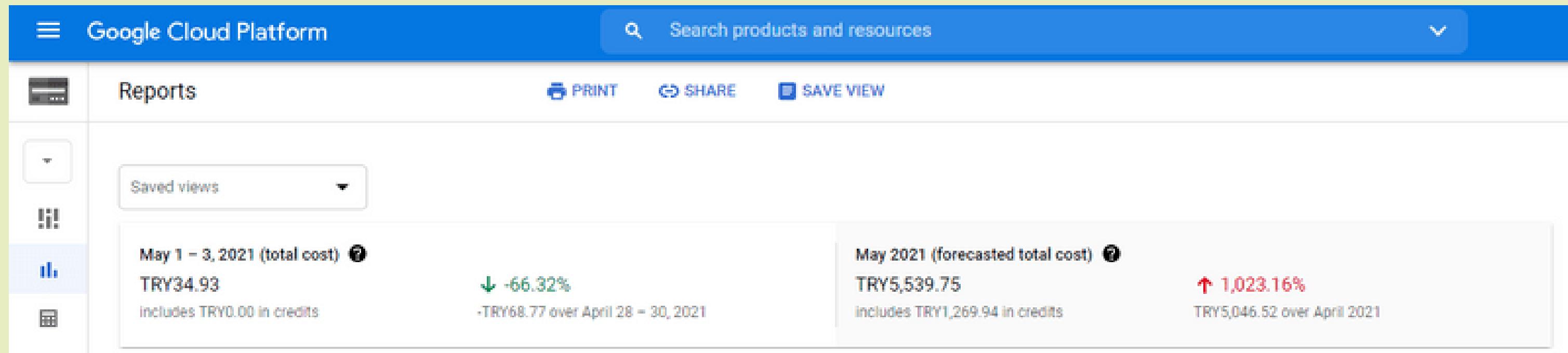


TIME

SCOPE (LEGAL)

COST

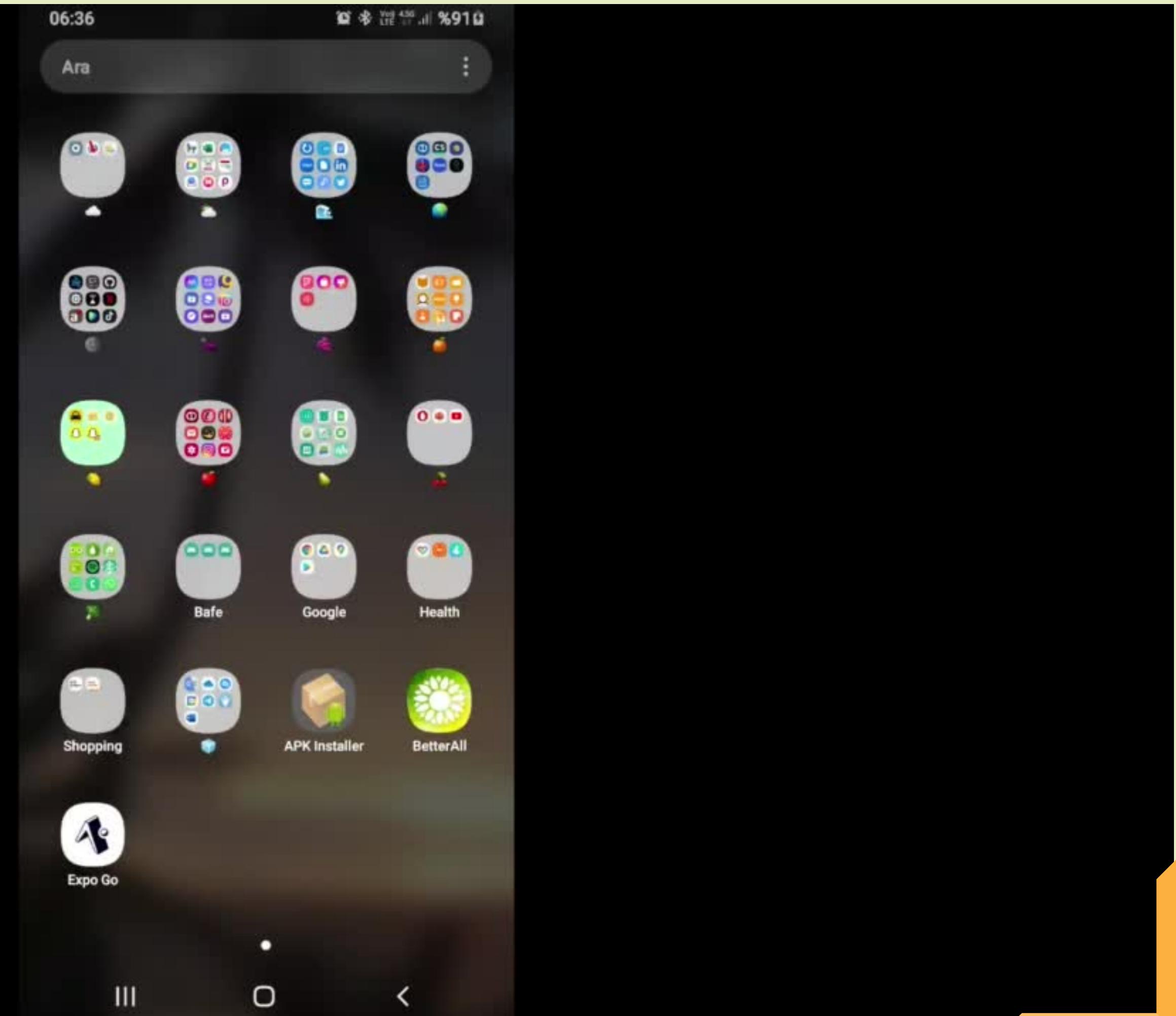
COST



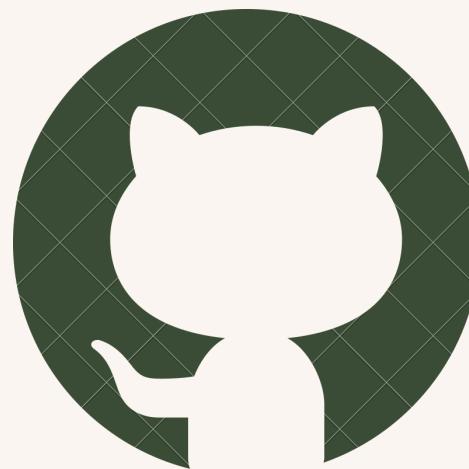
This is the forecasted cost until the end of May for hosting the database on Google Cloud SQL

Additionally, all the extensive APIs had pricing as well. We have already exceeded our budget.

Demo Video



Links



GITHUB

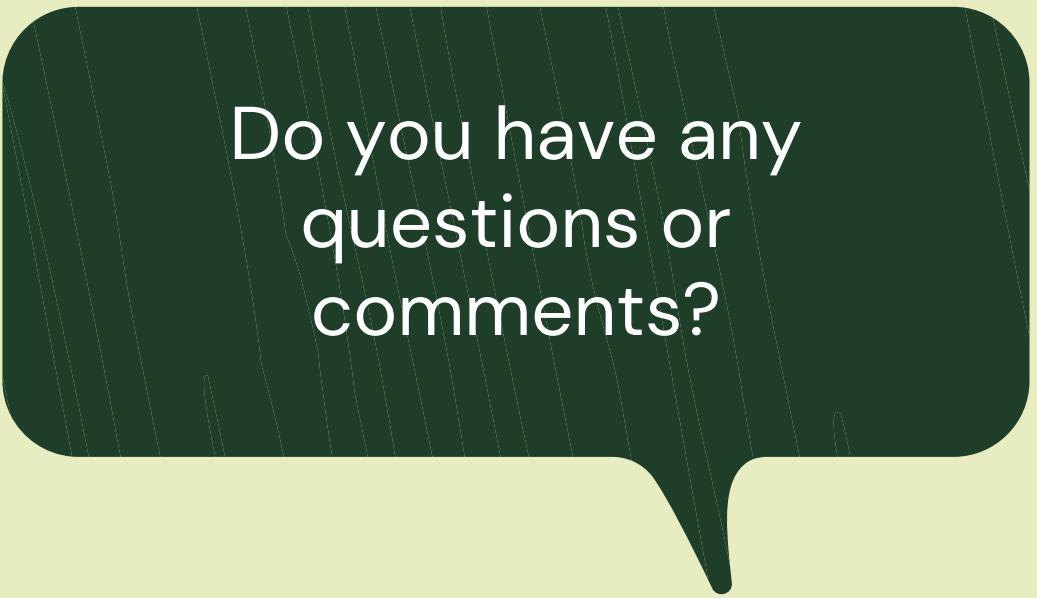
<https://github.com/melikearslan/BetterAll>



WEBSITE

<https://betterall.today/>

Thank you for listening!



Do you have any
questions or
comments?