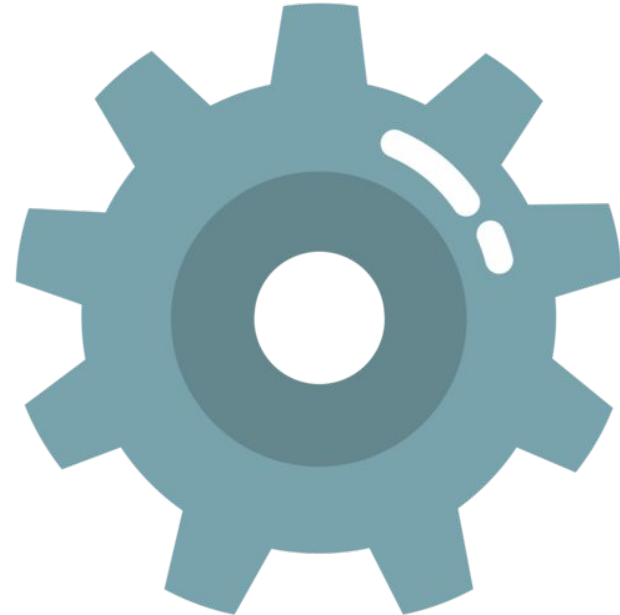


SPRINT 5

You already know who we are

DOCUMENT UPDATES

- Business Requirement Document: No major updates!
- Management Plan
 - Updated Gantt Chart
 - Updated Burndown Chart
 - Updated Project Tracking Matrix
 - Updated Sprint Board



USER STORIES RELEASED THIS SPRINT

- Completed:
 - User friendly UI
- In progress user stories:
 - Users should be able to search for food
 - Users should be able to log in
 - Users should be able to scan a barcode

API AND SERVER

- API
 - Food Data Central
- Server
 - Firebase
- ODM Library
 - Firebase Firestore

API CALL

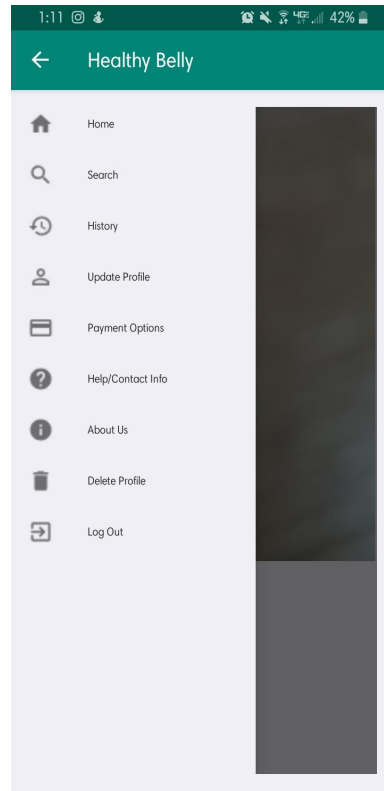
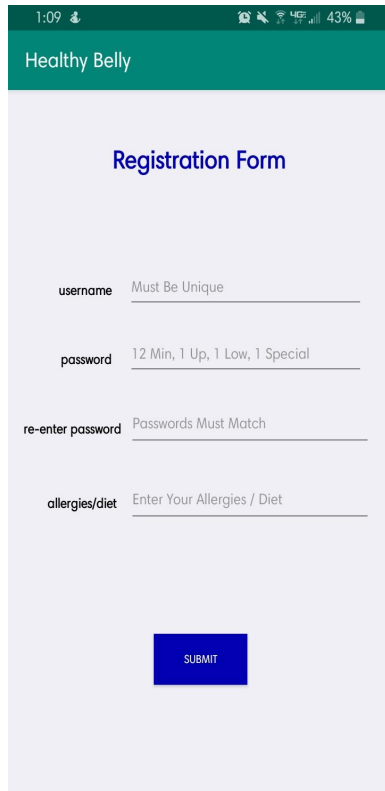
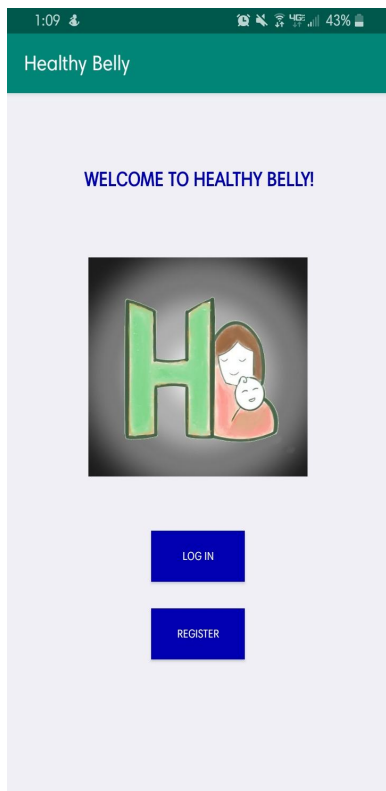
```
public class Connection {

    public static void main(String[] args) throws IOException {
        //System.out.println("Hello world");
        MyGETRequest();
    }

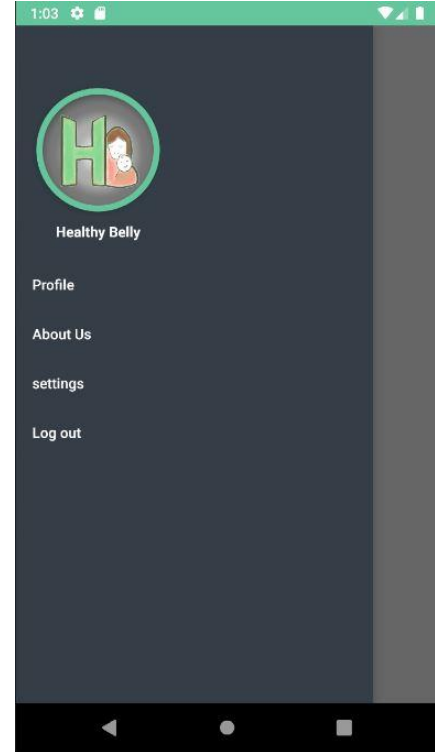
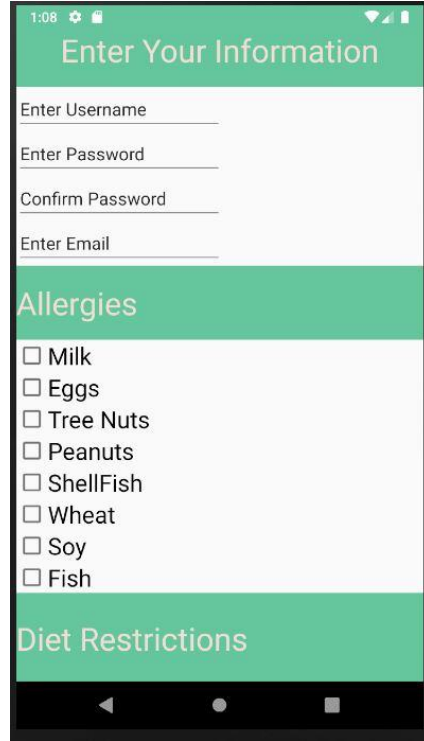
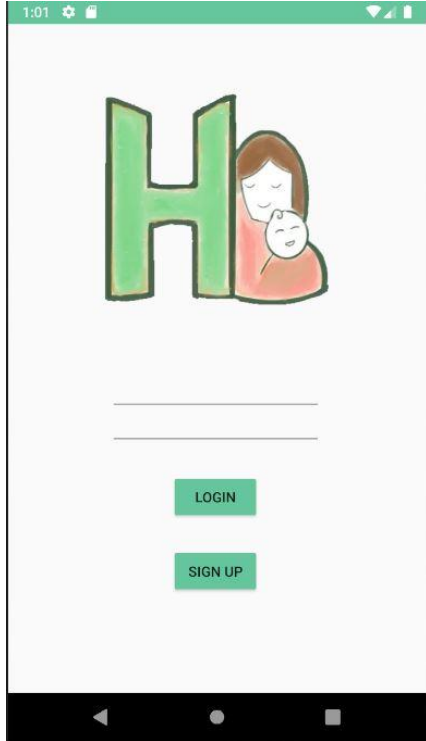
    public static void MyGETRequest() throws IOException {
        //URL urlForGetRequest = new URL("https://api.nal.usda.gov/fdc/v1/354148?api_key=BmpQTRpIIENGiaYN80vTCvm1cqieFWewKHEYv
        URL url = new URL("https://api.nal.usda.gov/fdc/v1/354148?api_key=BmpQTRpIIENGiaYN80vTCvm1cqieFWewKHEYvLHA");
        String readLine = null;
        //static String ison = "...";
        //JsonObject jsonObject = new JsonParser().parse(ison).getAsJsonObject();

        HttpURLConnection connection = (HttpURLConnection) url.openConnection();
        connection.setRequestMethod("GET");
        //connection.setRequestProperty("userId", "a1bcdef"); // set userId its a sample here
        int responsecode = connection.getResponseCode();
        String inline = null;
        |
        if (responsecode == HttpURLConnection.HTTP_OK) {
            BufferedReader in = new BufferedReader(
                new InputStreamReader(connection.getInputStream()));
            StringBuffer response = new StringBuffer();
            while ((readLine = in.readLine()) != null) {
                response.append(readLine);
            }
            in.close();
            // print result
            System.out.println("JSON String Result " + response.toString());
            //contents = response.toString();
            //GetAndPost.POSTRequest(response.toString());
        }
        else {
            System.out.println("GET NOT WORKED");
        }
    }
}
```

OLD UI



UPDATED UI



SCANNER UPDATES

ZBar; What it do bby?

The ZBar library uses an approach closer to that used by "wand" and "laser" scanners: linear (1D) barcodes are designed to be decoded by a simple light sensor passing over the light and dark areas of a symbol.

ZBar implementation makes linear scan passes over an image, treating each pixel as a sample from a single light sensor. The data is scanned, decoded and assembled on the fly.

GANTT CHART

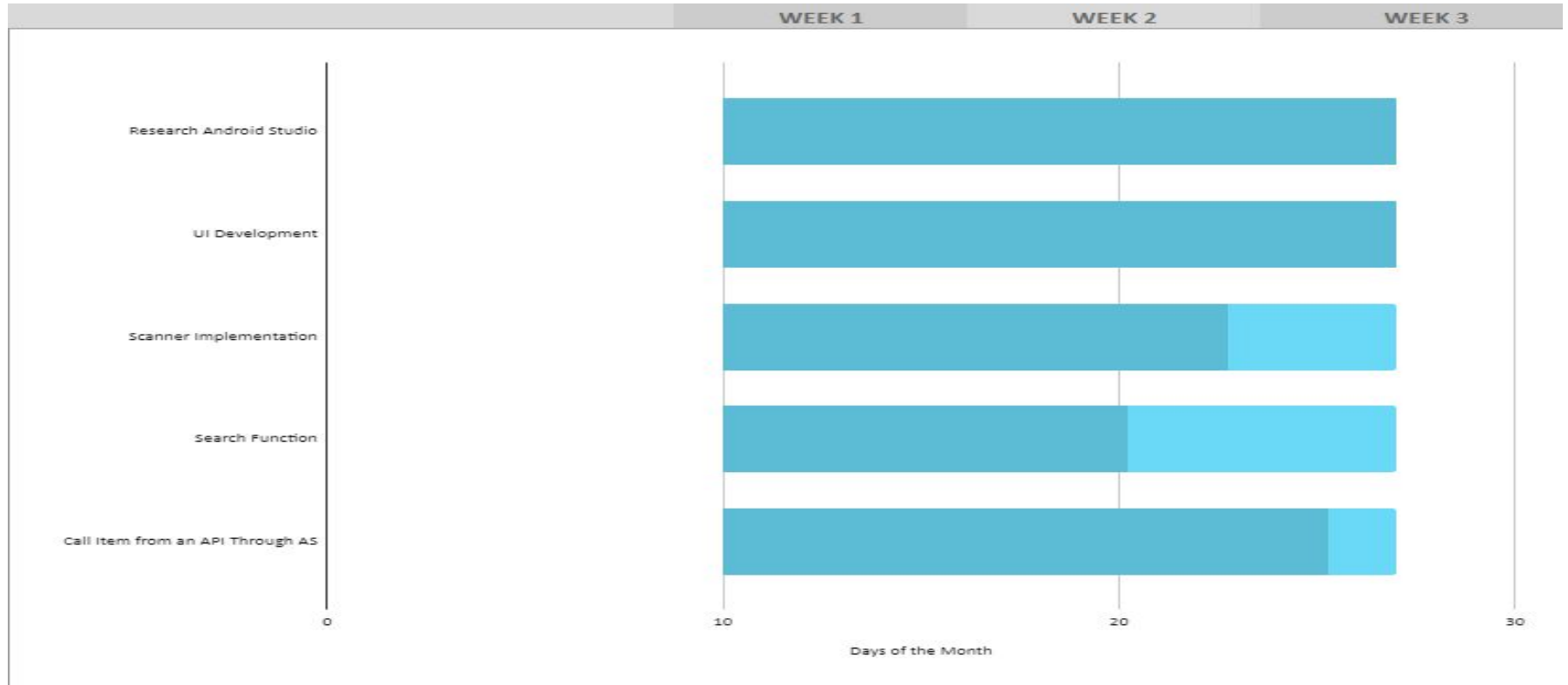
Healthy Belly Gantt Chart

Roster: [M]arty, [Mat]eo, [J]osue, [H]assan

* = an automatically calculated cell

TASK NAME	START DATE	DAY OF MONTH*	END DATE	DURATION* (WORK DAYS)	DAYS COMPLETE*	DAYS REMAINING*	TEAM MEMBER	PERCENT COMPLETE
Research Android Studio	2/10	10	2/26	17	17	0	J	100%
UI Development	2/10	10	2/26	17	17	0	J	100%
Scanner Implementation	2/10	10	2/26	17	12.75	4	M	75%
Search Function	2/10	10	2/26	17	10.2	7	H, Mat	60%
Call Item from an API Through AS	2/10	10	2/26	17	15.3	2	Mat, H	90%

GANTT CHART



PROJECT TRACKING MATRIX

Healthy Belly Project Tracking Matrix

Project	Healthy Belly					Project Manager	Mohammad-Murtuza Bharoocha
Project Start Date	September 2nd, 2019					Project End Date	

Task	Task Type	Task Status	Est SLOC	Actual SLOC	Priority	Assigned To	Assigned Date	Deadline
UI Design	Enhancement	In-Progress	<800		High	JR	18-Sep-19	NA
Backend (Databases & Servers)	Development	In-Progress	>1000		High	HI, MSPO	22-Jan-20	31-Mar-20
API	Development	In-Progress	<1000		High	HI, MSPO	22-Jan-20	31-Mar-20
Scanner	Development	In-Progress	<1000		Medum	MB	22-Jan-20	31-Mar-20
R&D	Customer Issue	In-Progress	Not Applicable		High	EVERYONE	18-Sep-19	1-Nov-19
User Login Credential	Customer Issue	In-Progress	<500		Low	HI, MSPO	NA	NA
Testing And Developing	Bug	Created	Not Applicable		Medum	EVERYONE	18-Sep-19	8-May-20

SPRINT BOARD

Healthy Belly ☆ Personal Private Invite

IMPORTANT LINKS ...

- Our Main GOOGLE DRIVE Link
- GitHub
- Gantt Chart
- + Add another card

Project Backlog ...

- 2. As a user, I should be able to determine whether an item scanned is safe, so that I may consume it [8 hours]
- 10. As a user, I should be able to input my allergies/diseases, so that the food I eat are both safe for me (due to health reasons) and safe for my baby [2 hours]
- 5. As a user I should be able to share my profile with another person, so that the other person may not require to enter my information again [5 hours]
- 6. As a user I should be able to see my scanned item history, so that I may go back to it in case I forget [2 hours]
- 7. As a user I should be able to see what other people are scanning near me, so that I may learn of new foods [7 hours]
- 8. As a user I should be able to get more information on the item scanned, so that I may learn more about the ingredients and the additives [5 hours]
- 9. As a user, I should be able to get a recommendation based on my searches, so that I may find a safer alternative to the items I had previously Scanned [15 hours]
- + Add another card

Sprint Backlog ...

- 4. As a user I should be able to make a profile, so that I may enter my personal dietary restrictions [8 hours]
- 11. Fix the camera [15 Hours]
- 12. ML model planning in English. [5 Hours]
- 13. Researching about getting the data from Open Food Facts and storing it on our server. [25 hours]
- 14. Update the Architecture and Design document
- + Add another card

COMPLETED SPRINT Backlogs ...

- + Add a card

To-Do ...

- User Story 1. Implement Scanner into our App
- 1. As a user, I should be able to scan the barcode of an item, so that I may learn of it's ingredients/contents [8 hours]
- User story 3. Implement Search into our App
- 3. As a user I should be able to search a food without scanning it, so that I may find information on foods without barcode [2 hours]
- Login feature
- UI Development
- Continue working with Android Studio
- + Add another card

In Progress ...

- + Add a card

SPRINT OBJECTIVE ...

- Sprint Objective of Sprint #0: To complete The Required Documents and Architecture analysis of User Story 1
- Sprint Objective of Spring #1: To Complete Project Requirements Document, plan out the Database, Practice using Android Studio, and begin making user Manual and UI
- Sprint Objective of Spring #2: To complete user manual and continue working UI and working with our AWS
- Sprint Objective of Spring #3: To implement Search and Barcode Scanner
- Sprint Objective of Sprint #4: Focus on bug fixes (specifically the camera), expanding the search feature, getting the scanner working(ML?) and redoing the back-end structure.
- Sprint Objective of Sprint #5: Focus on API and backend calls. Focus on UI development. Focus on scanner.
- + Add another card

SPRINT BOARD

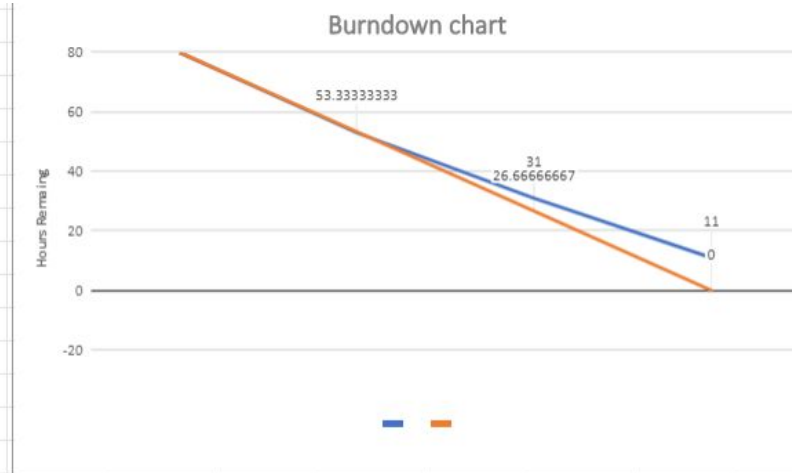
The screenshot shows a Trello board for a project named "Healthy Belly". The board is organized into several columns, each representing a different stage of the project workflow. The background of the board is a dark, starry space image with a rocky planet surface in the foreground.

- IMPORTANT LINKS**: A column on the far left containing links to "Our Main GOOGLE DRIVE Link", "GitHub", and "Gantt Chart".
- Project Backlog**: A column containing user stories and tasks, each with a progress bar and a time estimate in brackets. The items are:
 - 2. As a user, I should be able to determine whether an item scanned is safe, so that I may consume it [8 hours]
 - 10. As a user, I should be able to input my allergies/diseases, so that the food I eat are both safe for me (due to health reasons) and safe for my baby [2 hours]
 - 5. As a user I should be able to share my profile with another person, so that the other person may not require to enter my information again [5 hours]
 - 6. As a user I should be able to see my scanned item history, so that I may go back to it in case I forget [2 hours]
 - 7. As a user I should be able to see what other people are scanning near me, so that I may learn of new foods [7 hours]
 - 8. As a user I should be able to get more information on the item scanned, so that I may learn more about the ingredients and the additives [5 hours]
 - 9. As a user, I should be able to get a recommendation based on my searches, so that I may find a safer alternative to the items I had previously Scanned [15 hours]
- Sprint Backlog**: A column containing tasks for the current sprint, each with a time estimate in brackets. The items are:
 - 4. As a user I should be able to make a profile, so that I may enter my personal dietary restrictions [8 hours]
 - 11. Fix the camera [15 Hours]
 - 12. ML model planning in English. [5 Hours]
 - 13. Researching about getting the data from Open Food Facts and storing it on our server. [25 hours]
 - 14. Update the Architecture and Design document
- COMPLETED SPRINT Backlogs**: A column for completed sprints, currently empty.
- To-Do**: A column for tasks to be done, containing:
 - User story 3. Implement Search into our App
 - Login feature
- In Progress**: A column for tasks currently in progress, containing:
 - User Story 1. Implement Scanner into our App
 - 1. As a user, I should be able to scan the barcode of an item, so that I may learn of it's ingredients/contents [8 hours]
 - 3. As a user I should be able to search a food without scanning it, so that I may find information on foods without barcode [2 hours]

At the bottom of the board, there is a section for "UI Development" with a progress bar showing 2/3 completion and a link to "Continue working with Android Studio".

BURNDOWN CHART

Task	Planned Hours	Week 1	Week 2	Week 3	Total Hours
Research AS	10	3	3	4	10
UI Devolpment	20	7	7	6	20
Scanner Implementation	20	5	5	5	15
Search Function	10	2	2	2	6
API Connection to AS	20	10	5	3	18
Hours Completed :					69
Actual Hours Remaining	80	53	31	11	
Estimated Remaining Hours	80	53	27	0	



RETROSPECTIVE

- Due to midterm season some of us had to put in less hours into our project.
- We feel like we found a good pace at between 70 and 80 story points, at least when the team is at full productivity.
- As a team we feel like sprint 6 we will really be able to hit a big stride.

SURPRISE TIME?

