VISVESVARAYA TECHNOLOGICAL UNIVERSITY

"JnanaSangama", Belgaum -590014, Karnataka.

PROJECT WORK-3 REPORT
on
NATURE'S OWN

Submitted by

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Under the Guidance of
Prof. Namratha M
Assistant Professor, BMSCE

in partial fulfillment for the award of the degree of
BACHELOR OF ENGINEERING
in
COMPUTER SCIENCE AND ENGINEERING

B.M.S. COLLEGE OF ENGINEERING
(Autonomous Institution under VTU)
BENGALURU-560019
Sep-2020 to Jan-2021

B. M. S. College of Engineering,

Bull Temple Road, Bangalore 560019

(Affiliated To Visvesvaraya Technological University, Belgaum)

Department of Computer Science and Engineering

CERTIFICATE

This is to certify that the project work entitled "**NATURE'S OWN**" carried out by **SHIVA PRANEETH KODALI (1BM18CS100), SHREYA LADDHA (1BM18CS103), TANYA MISHRA (1BM18CS117) AND V K PRITHVIK ANIKETH (1BM18CS119)** who are b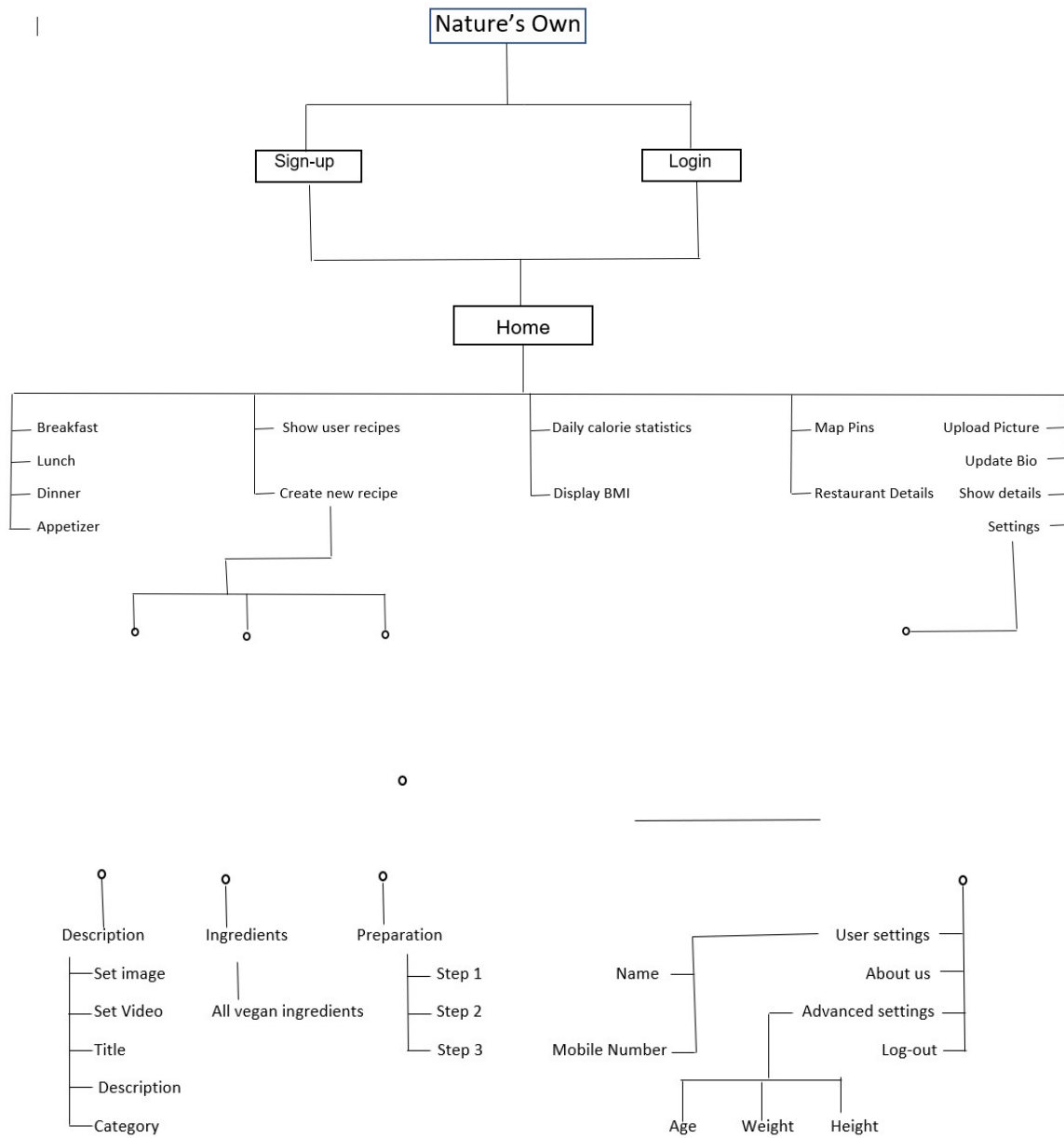onafide students of **B. M. S. College of Engineering.** It is in partial fulfillment for the award of **Bachelor of Engineering in Computer Science and Engineering** of the Visveswaraiah Technological University, Belgaum during the year 2020-2021. The project report has been approved as it satisfies the academic requirements in respect of **Project Work-3 (20CS5PWPW3)** work prescribed for the said degree.

Signature of the Guide   Signature of the HOD
Namratha M   Dr. Umadevi V
Assistant Professor, Dept. of CSE   Associate Prof.& Head, Dept. of CSE
BMSCE, Bengaluru   BMSCE, Bengaluru

External Viva

Name of the Examiner   Signature with date

1._____   _____

2. _____   _____

B.M.S. COLLEGE OF ENGINEERING

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

DECALARATION

We, SHIVA PRANEETH KODALI (1BM18CS100), SHREYA LADDHA (1BM18CS103), TANYA MISHRA (1BM18CS117) AND V K PRITHVIK ANIKETH (1BM18CS119), students of 5th Semester, B.E, Department of Computer Science and Engineering, B. M. S. College of Engineering, Bangalore, here by declare that, this Project Work-1entitled "Project Title" has been carried out by us under the guidance of Dr. Umadevi V, Associate Professor, Department of CSE, B. M. S. College of Engineering, Bangalore during the academic semester Sep-2020-Jan-2021

We also declare that to the best of our knowledge and belief, the development reported here is not from part of any other report by any other students.

Signature

SHIVA PRANEETH KODALI (1BM18CS100)

SHREYA LADDHA (1BM18CS103)

TANYA MISHRA (1BM18CS117)

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INTRODUCTION

Nature's Own is a pro vegan app which has multiple vegan recipe's for users to browse through. The app houses various easy to use features. Each recipe is categorized into the different meals one has during the day. Users can add their own recipe as well as search for new ones. Each dish is complete with a set of ingredients needed along with the step-by-step instruction of the way to prepare it. Furthermore, it has restaurants that serve vegan meals along with their locations. Lastly, the app has a calorie counter which calculates the user's calorie intake after every meal.

FEATURES:

1. Login Page
2. Sign-up Page
3. Home Page
4. Recipes
5. Create recipe
6. Location page
7. Calorie Counter
8. User profile

Design Layouts: Screen Shots of Mobile App / Webpages

Nature's Own

Sign-up   Login

Home

— Breakfast   — Show user recipes   — Daily calorie statistics   — Map Pins   Upload Picture

— Lunch   Update Bio

— Dinner   — Create new recipe   — Display BMI   — Restaurant Details   Show details

— Appetizer   Settings

Description   Ingredients   Preparation   User settings

— Set image   — Step 1   Name   About us

— Set Video   All vegan ingredients   — Step 2   Advanced settings

— Title   — Step 3   Mobile Number   Log-out

— Description

— Category   Age   Weight   Height

LOGIN PAGE:

Registered users can put their credentials to enter the app. The user needs to add either their email id or phone number as well as password.

The user needs to enter valid credentials. If they fail to do so the following messages will be displayed.
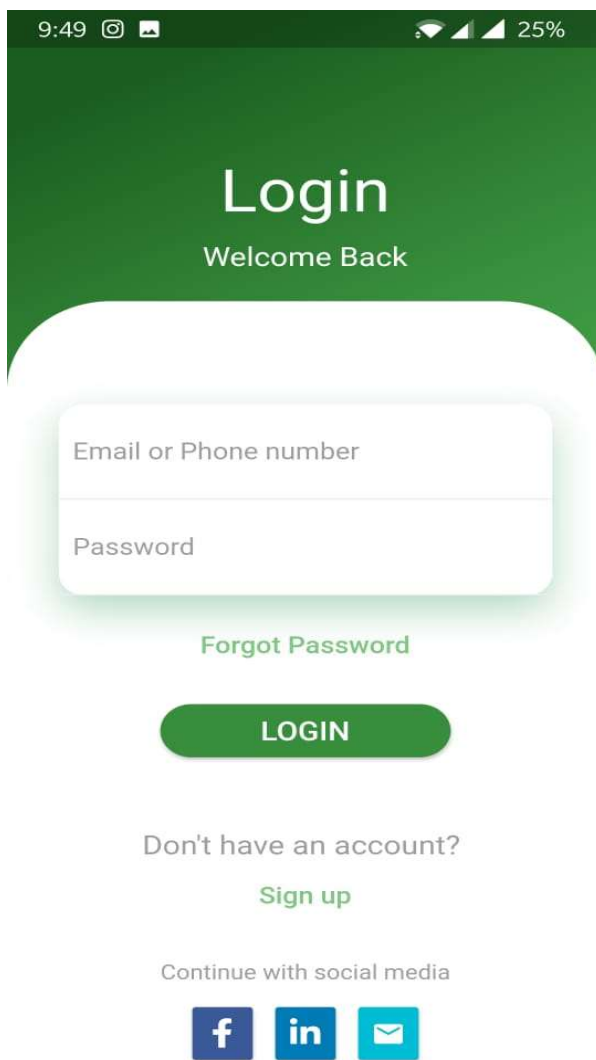
FIG1-   FIG2-
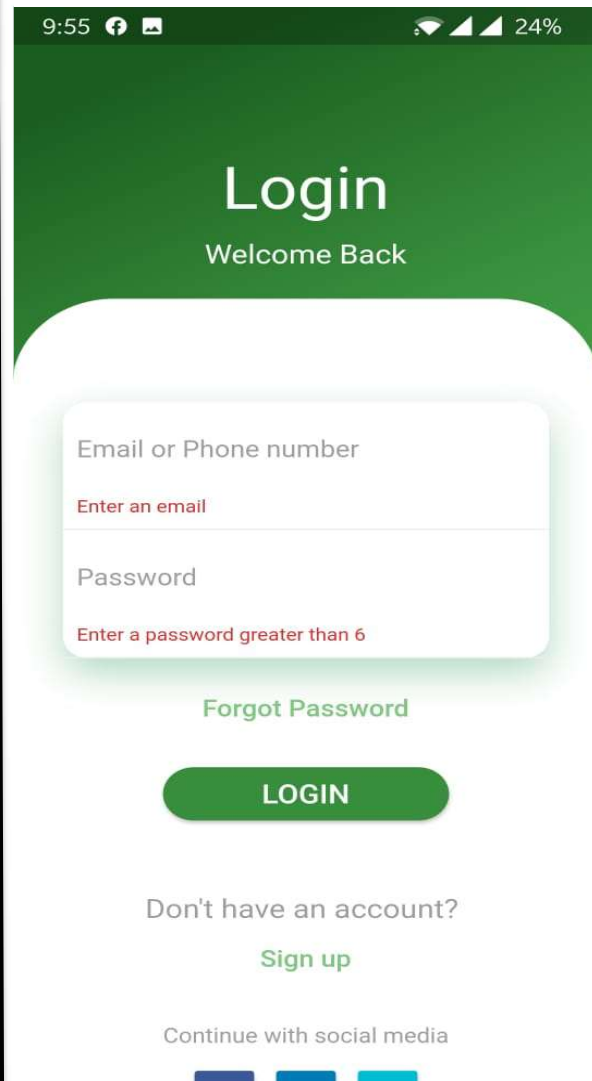
FORGOT PASSWORD:

On clicking on the forgot password flat button, an email is sent to the registered email address through firebase to reset the password.
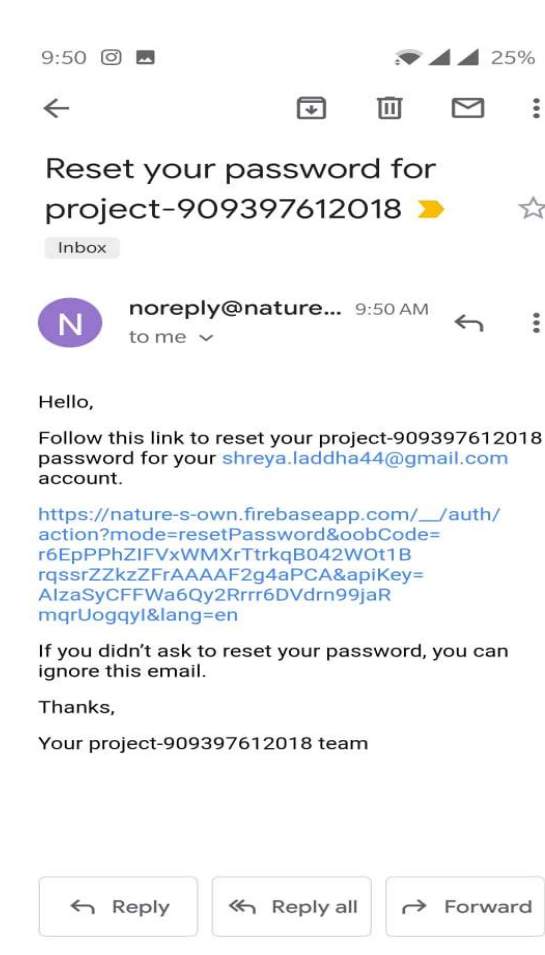
FIG3-   FIG4-
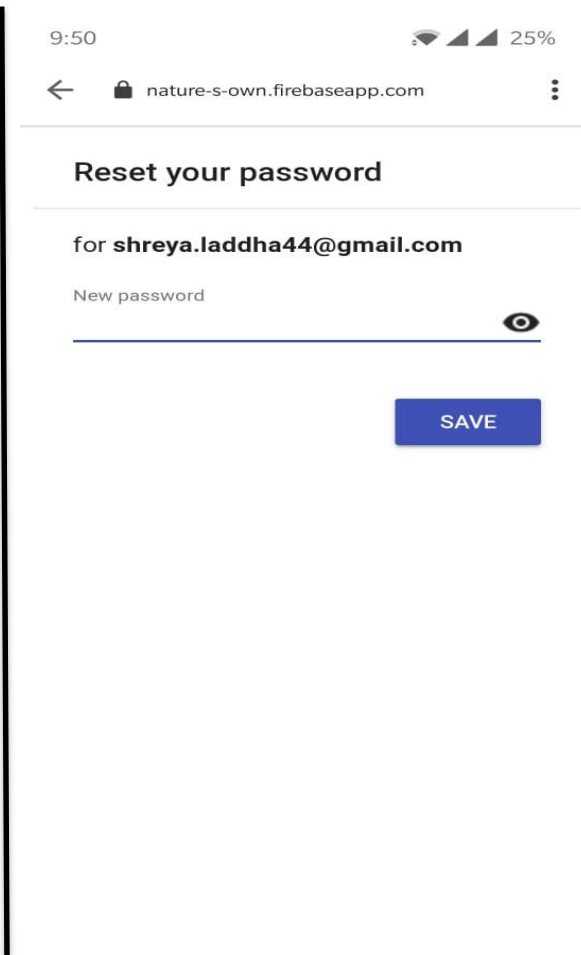
SIGN UP PAGE:

The first-time users need to register themselves to enter the app. They need to fill in personal details such as email id, phone number, username and password.

The user needs to enter valid credentials. If they fail to do so the following messages will be displayed.

FIG5-   FIG6-

App shows recipe recommendations based on the meal the user chooses. The options are-Breakfast, Lunch, Dinner and Appetizers.

The app bar has a search bar available to search recipes.

FIG7-   FIG8-

On clicking the respective cards in the home page for breakfast, lunch, dinner and appetizers, these pages show recipes extracting from the firebase storage.

FIG8-
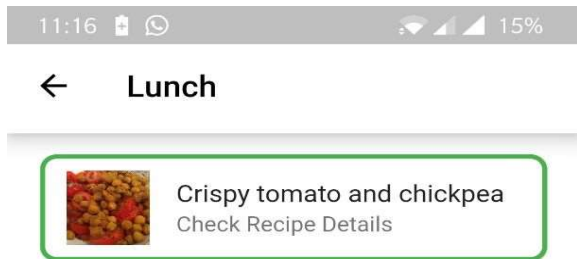
FIG9-
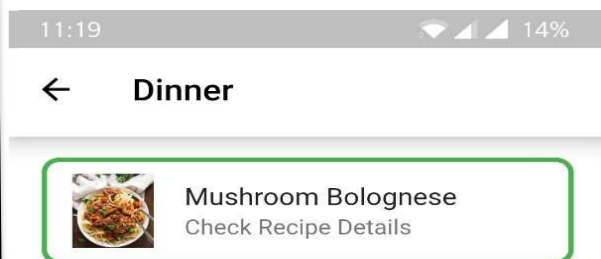
RECIPES:

This page shows all the recipes created by the current user. Each recipe has the list of ingredients needed and the step-by-step instructions that need to be followed.

In case the user has not added any recipes, they will be a message saying that the user has not created any recipes.
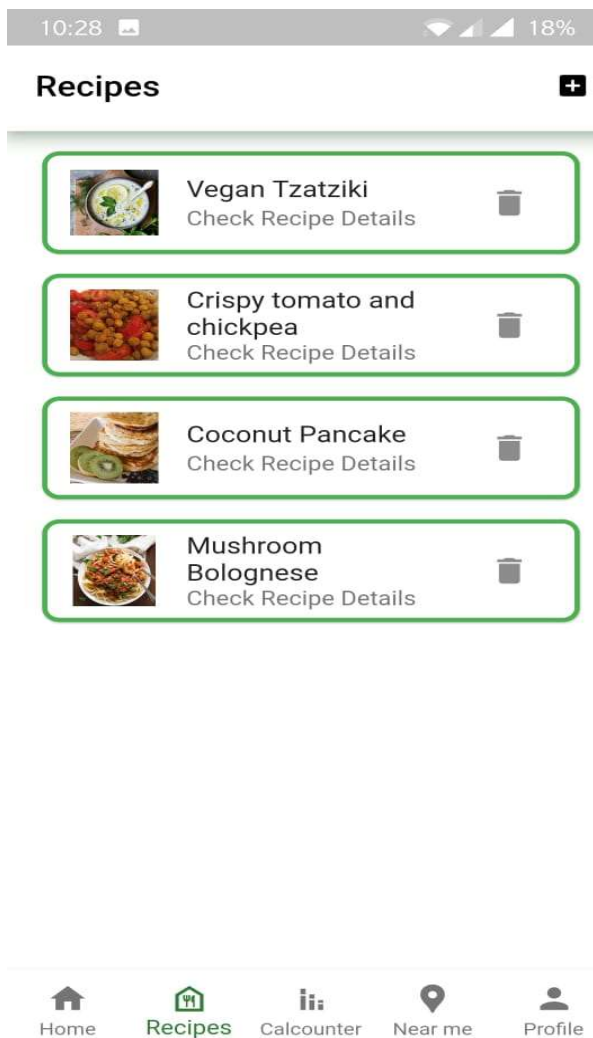
FIG10-   FIG11-
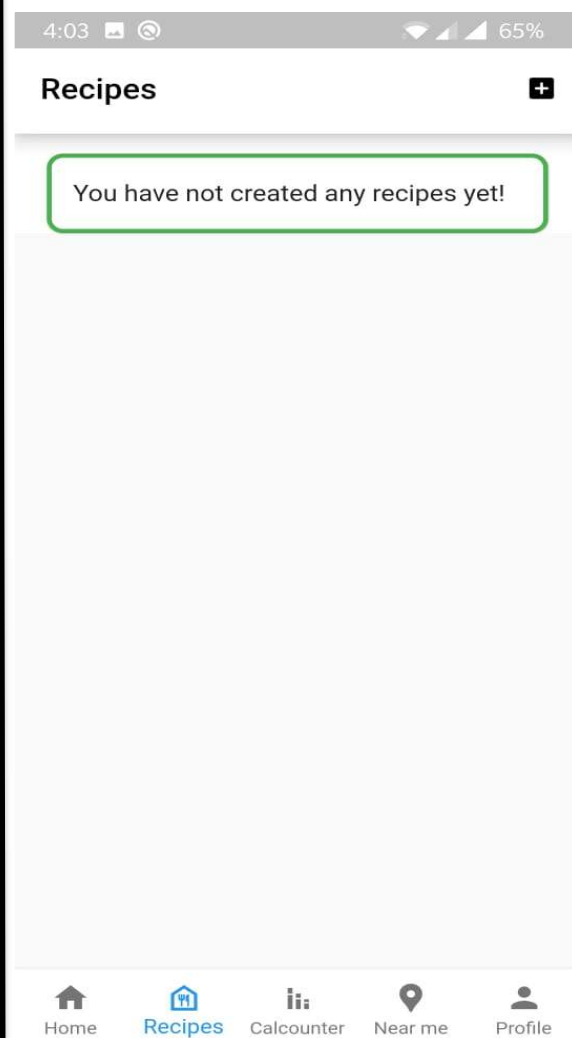
RECIPE FORM:

It displays the recipe details when user taps on the recipe tile. Which includes: Title, image, description, category, preparation, and video.
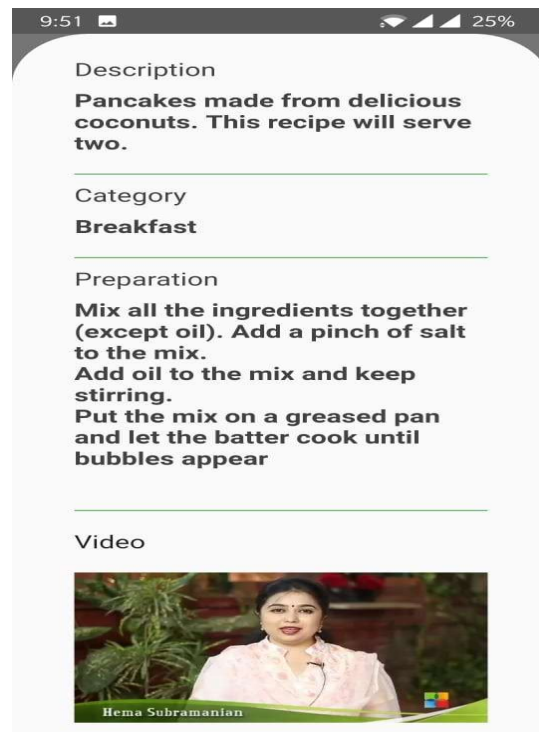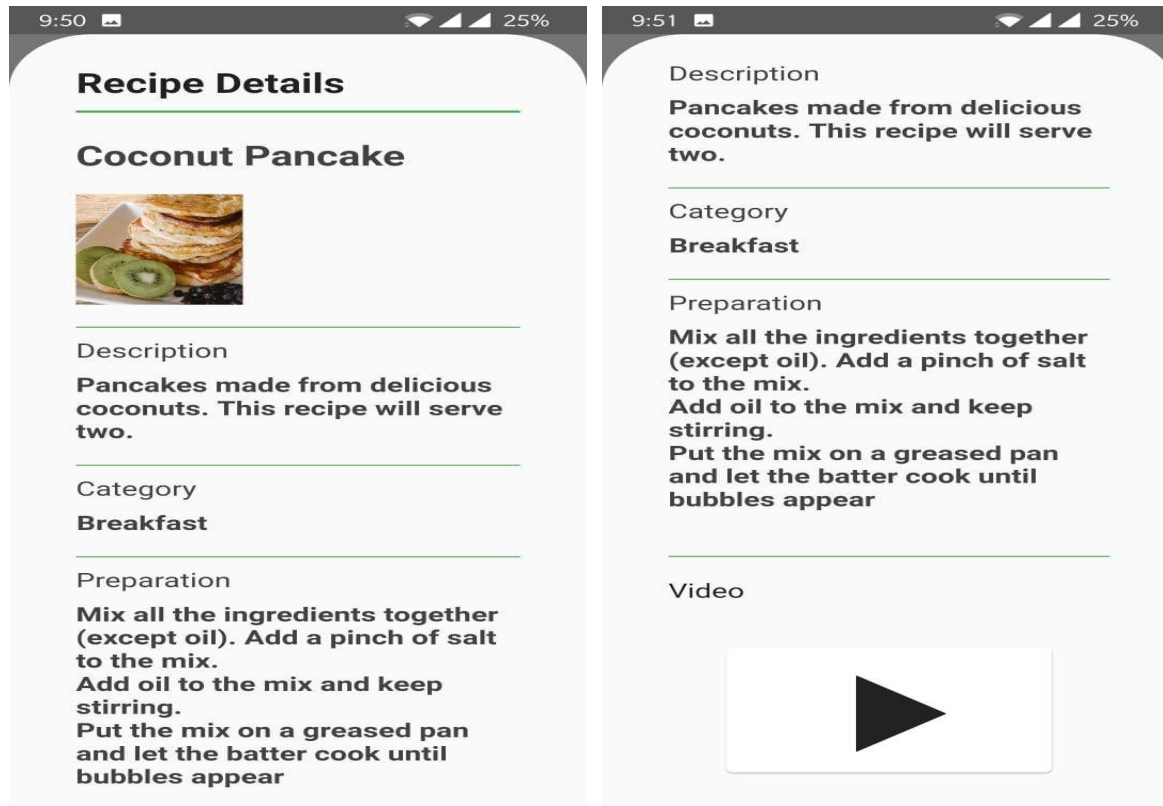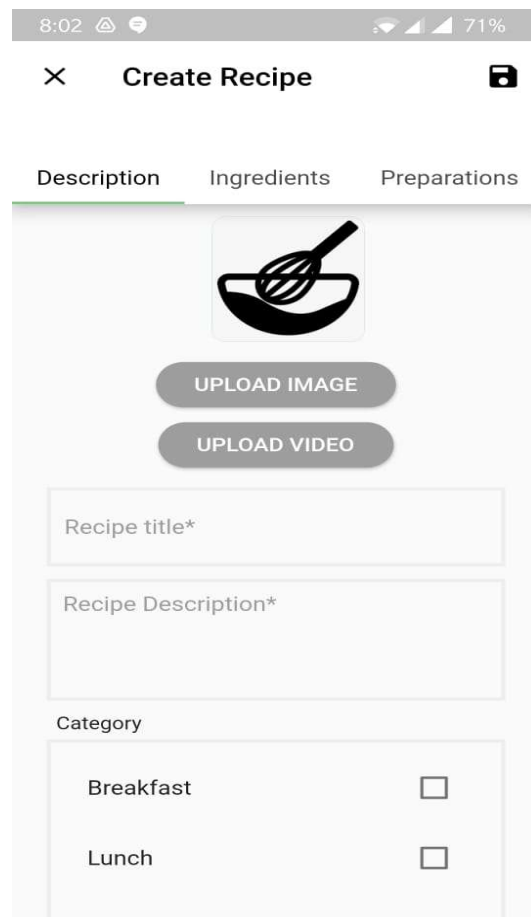
CREATE RECIPE:

When the user clicks on the create recipes option, they reach the page shown below.

This allows users to add their own recipes in the app. These recipes can be viewed by anyone using the app. In this section, the user is supposed to add an image of the food along with a description of it. It is mandatory to fill in all the fields. The user also needs to choose the category the dish belongs to, ie, breakfast, lunch and dinner, appetizer.
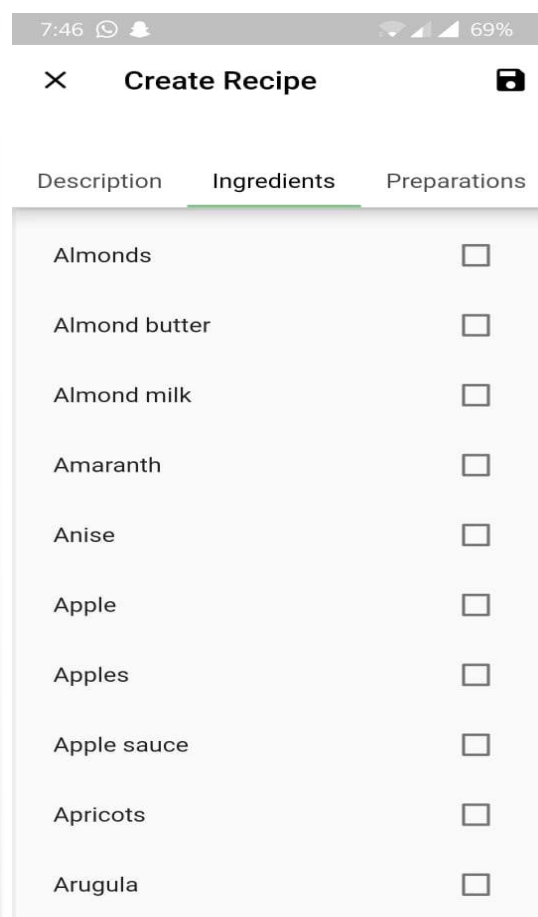
The page uses **Tab view** for the three different sections to create the recipe.

FIG12-   FIG13-

User needs to add a detailed instruction set of the recipe they intended to add. The steps should be clear and precise.
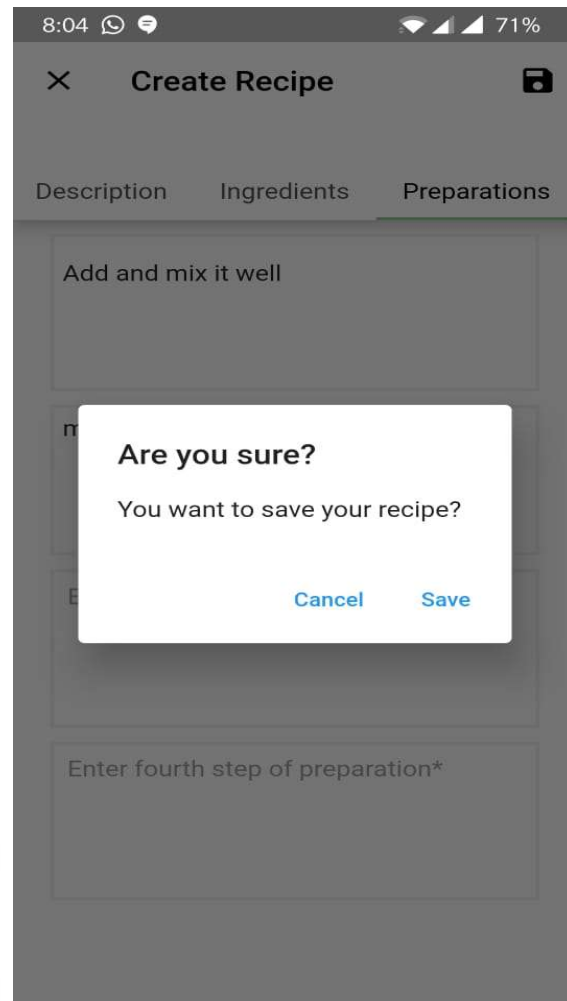
After adding all the mandatory fields, the user is supposed to save the file. When they click on that option, a popup will come asking if they are sure.

FIG14-   FIG15-

CALORIE COUNTER:

This feature of the app counts the calorie intake of the user based on the meals they have had in the day. The user is supposed to fill in the details and the app will calculate.

Here the user has to add the details of the meal they had. The fields are calorie intake during breakfast, lunch, dinner and appetizers.

FIG16-   FIG17-

The calorie counter will make a **pie chart** depicting the calorie intake using the information entered by the user and give the user its **BMI.**

FIG18-

NEAR ME:

The "Near me" page allows users to locate vegan restaurants in their surrounding vicinity so they can drop by and enjoy a wholesome vegan meal anytime.

On clicking the pin location, a bottom sheet opens where we get the restaurants address.
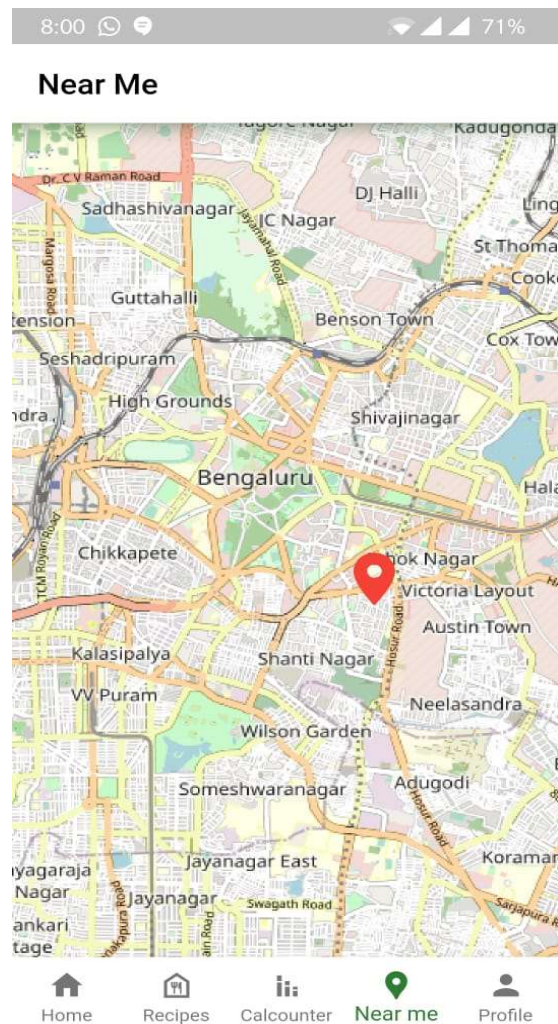
FIG19-   FIG20-
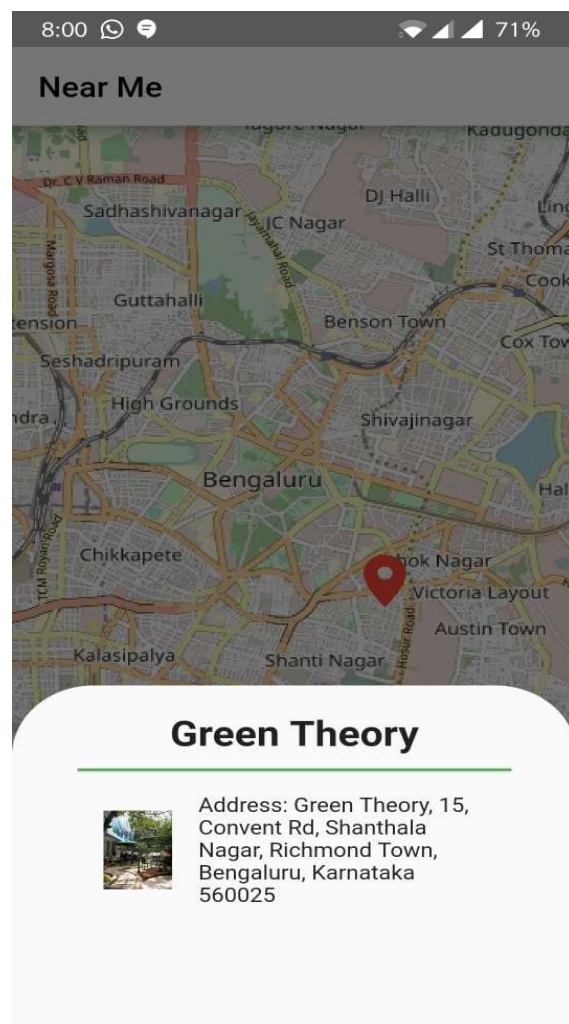
USER PROFILE:

Fig21- This is the profile page , where user can upload profile image and enter profile details like Bio and its Interests.

Fig22- This is the settings tab where users can upstage their profiles, view the about us page and log out of their profile.
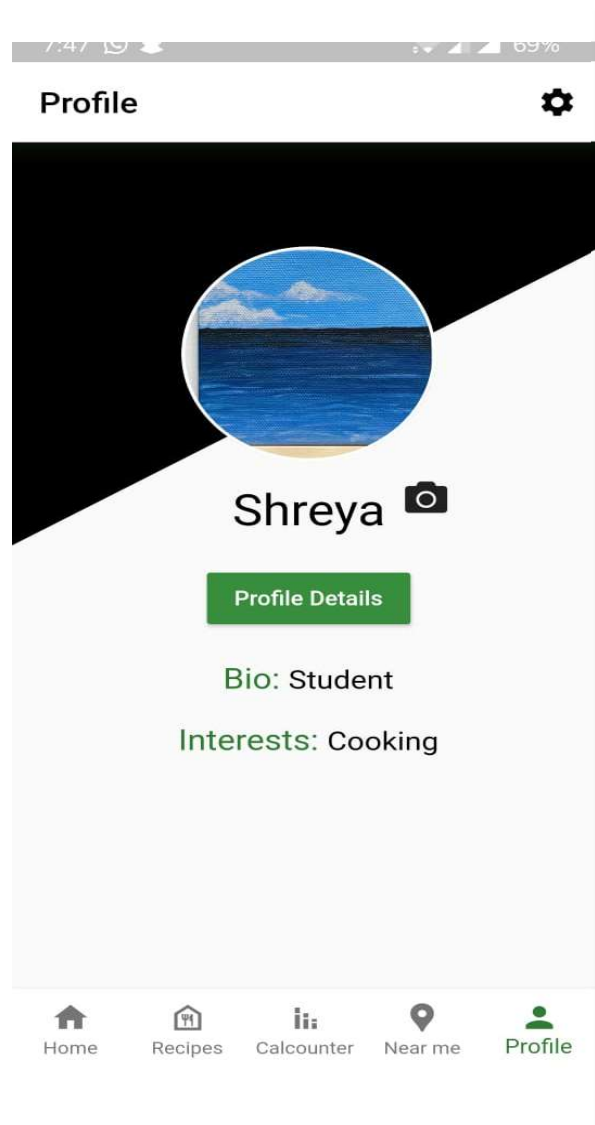
FIG21-   FIG22-
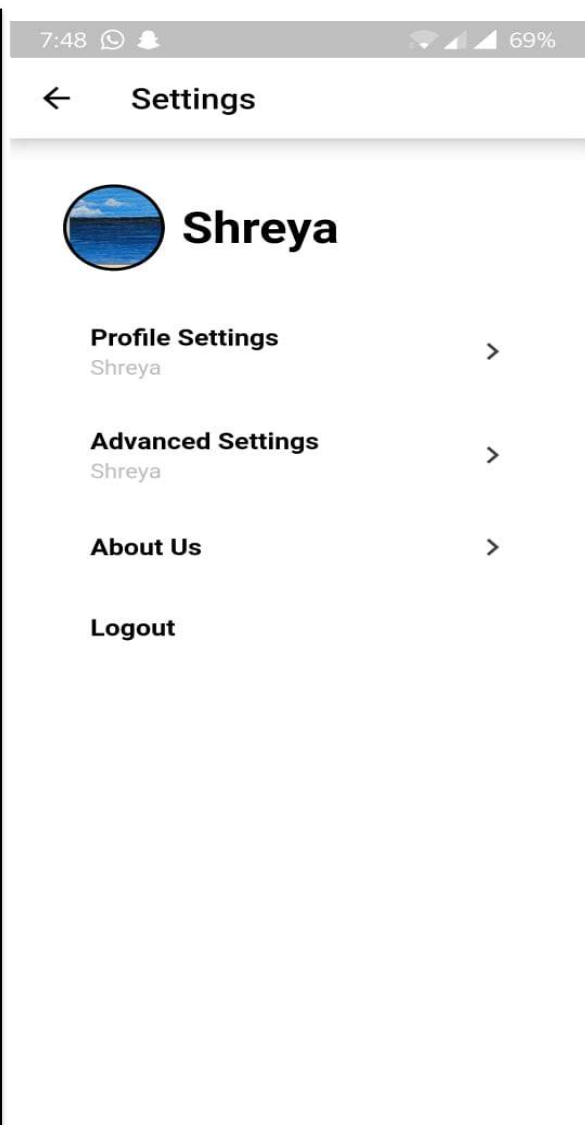
Fig23- This is the bottom sheet modal which is displayed to update users height weight and age, known as the advanced settings.
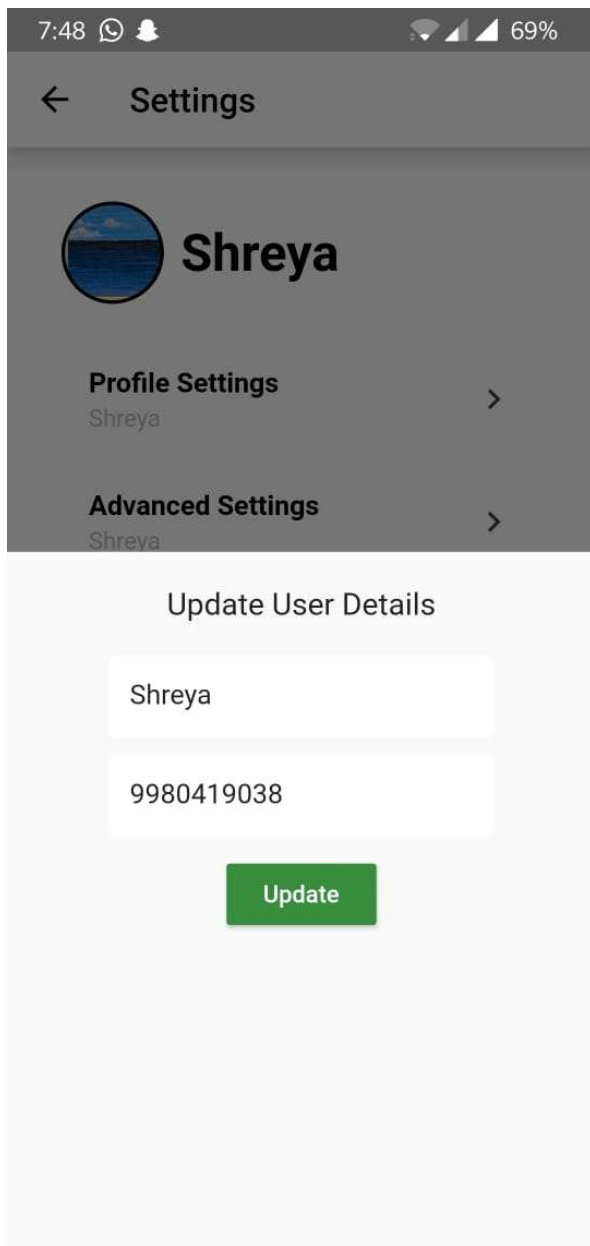
FIG23-   FIG24-

Fig25- This is the user information update tab where users can update their name and mobile number.

FIG25-   FIG26-
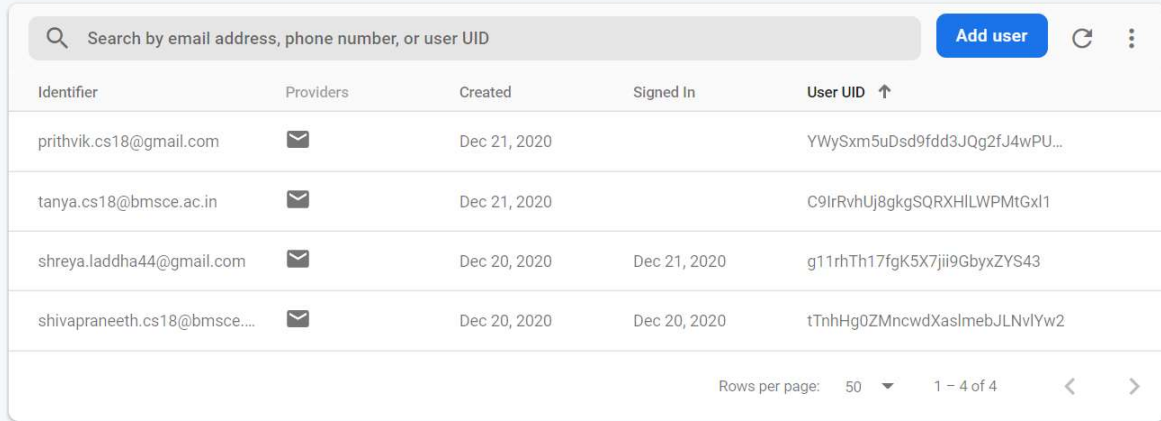
Database Table Screen shots

User Authentication table:

FIG27-

Cloud Firestore:

User details:

FIG27-

User Advances Details:

FIG28-

User Profile details:

FIG29-

Recipe tables:

1.1: Collection(Recipe)->

Document(userID)->

 Collection(recipes)->
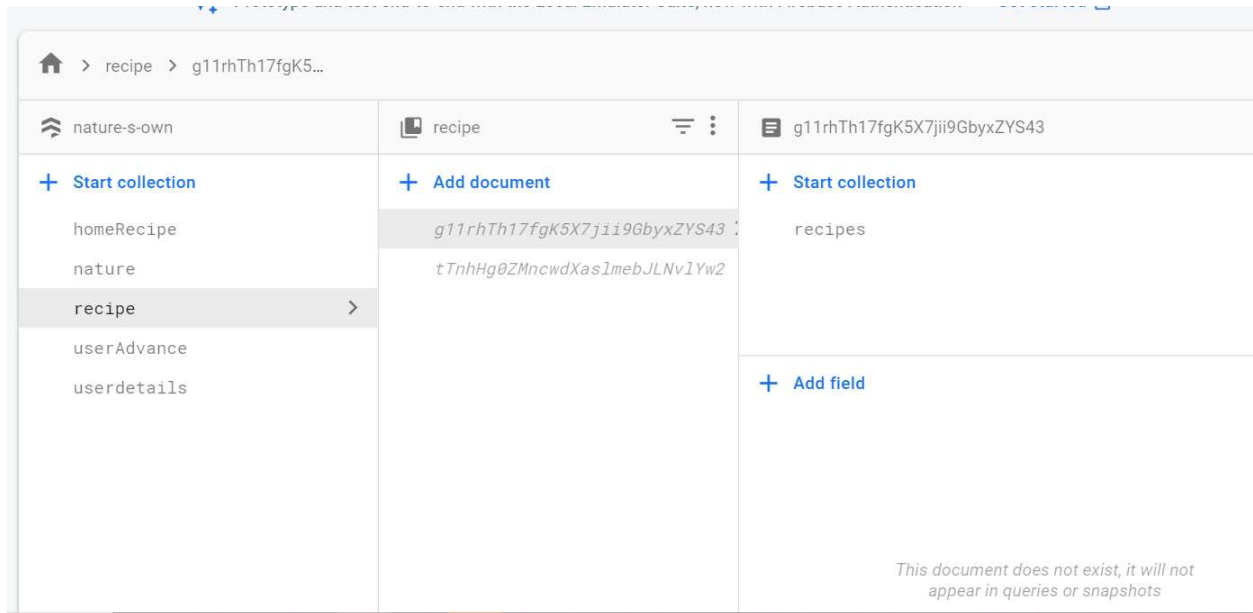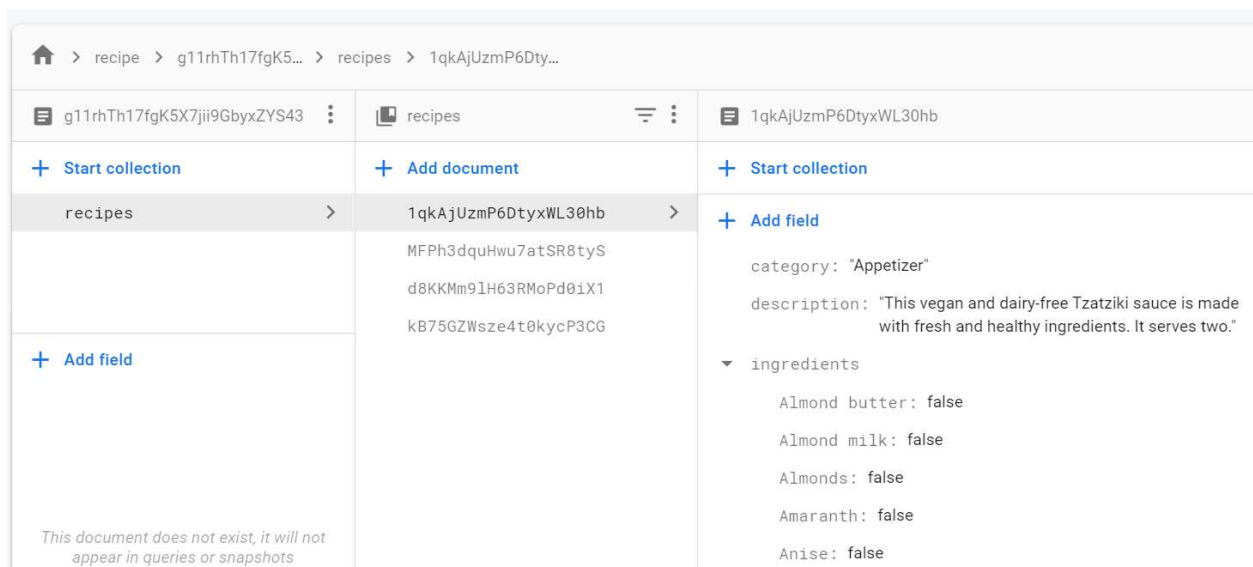
Document(recipeId)

FIG30-

FIG31-

Home Recipes:

Collection(homeRecipe)->
Document(breakfast)/Document(lunch)/Document(Dinner)/Document(appetizer)->

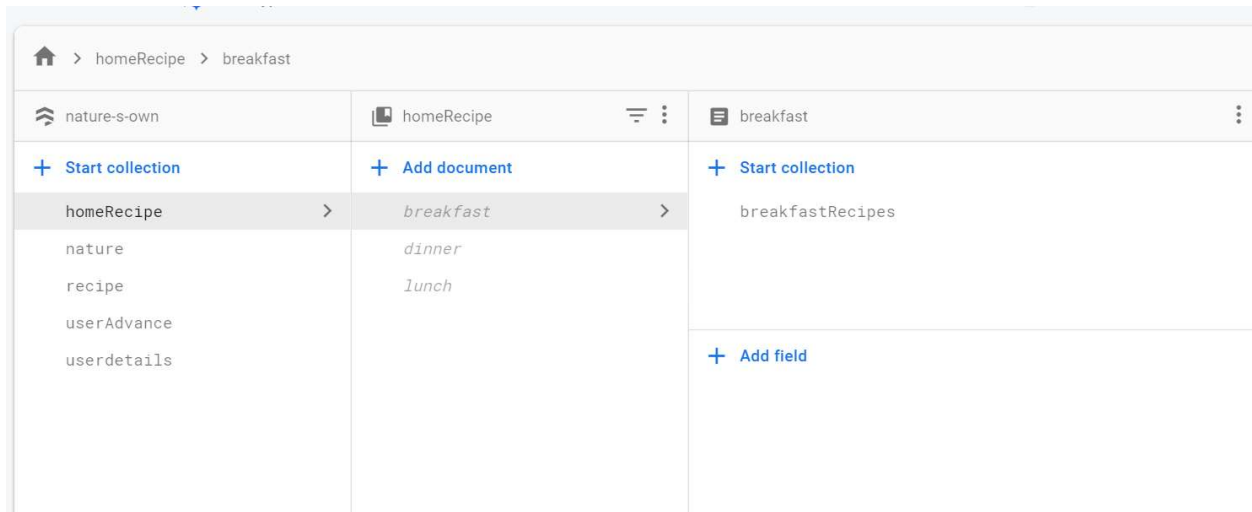Collection(breakfastRecipes)[respective]->

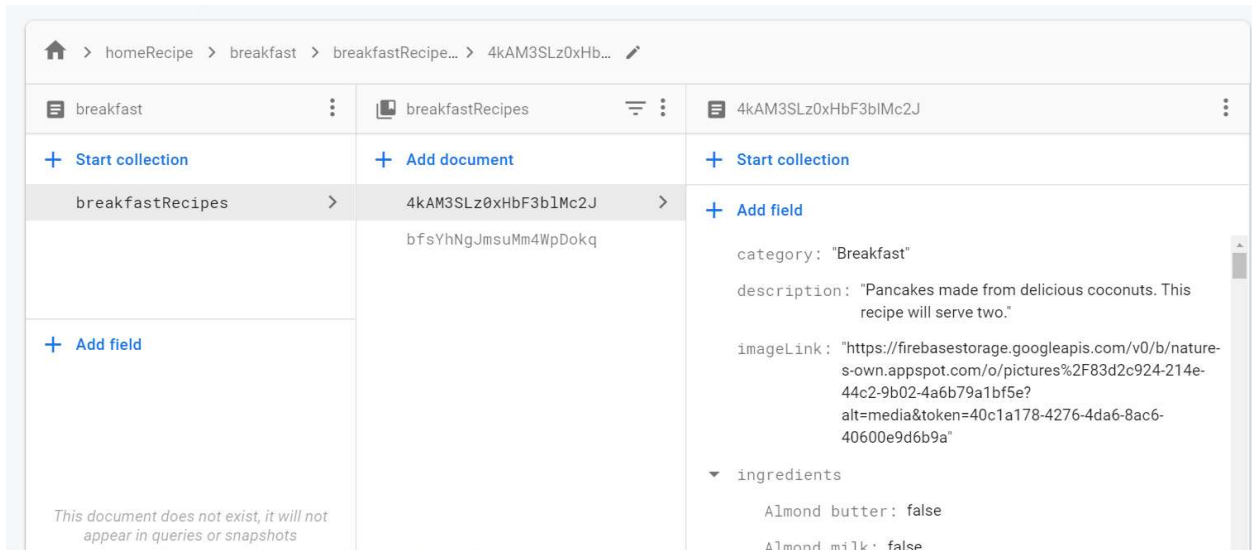Document(RecipeId).

FIG32-

FIG33-

FUTURE WORK:

- User can mark recipes as favorites and save it in their Wishlist.

- User to get notification if a followed user posts a new recipe.

- To make the search bar work dynamically.

THANK YOU