

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

“JnanaSangama”, Belgaum -590014, Karnataka.



PROJECT WORK-3 REPORT on NATURE'S OWN

Submitted by

SHIVA PRANEETH KODALI (1BM18CS100)
SHREYA LADDHA(1BM18CS103)
TANYA MISHRA (1BM18CS117)
V K PRITHVIK ANIKETH (1BM18CS119)

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 bonafide 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 Visveswararajah 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
Namratha M
Assistant Professor, Dept. of CSE
BMSCE, Bengaluru

Signature of the HOD
Dr. Umadevi V
Associate Prof.& Head, Dept. of CSE
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



DECLARATION

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-I entitled "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)

V K PRITHVIK ANIKETH (1BM18CS119)

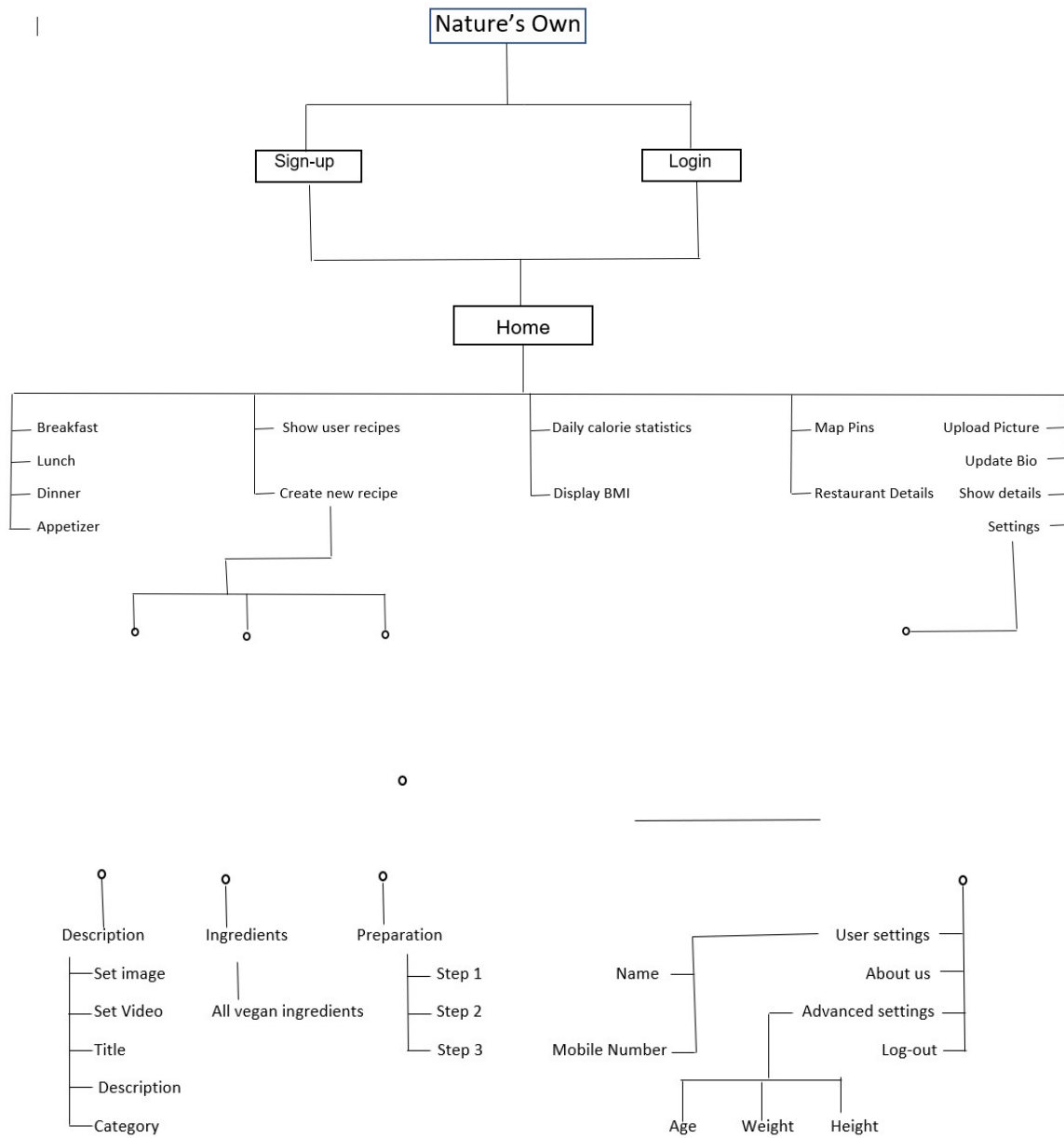
INTRODUCTION

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



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-

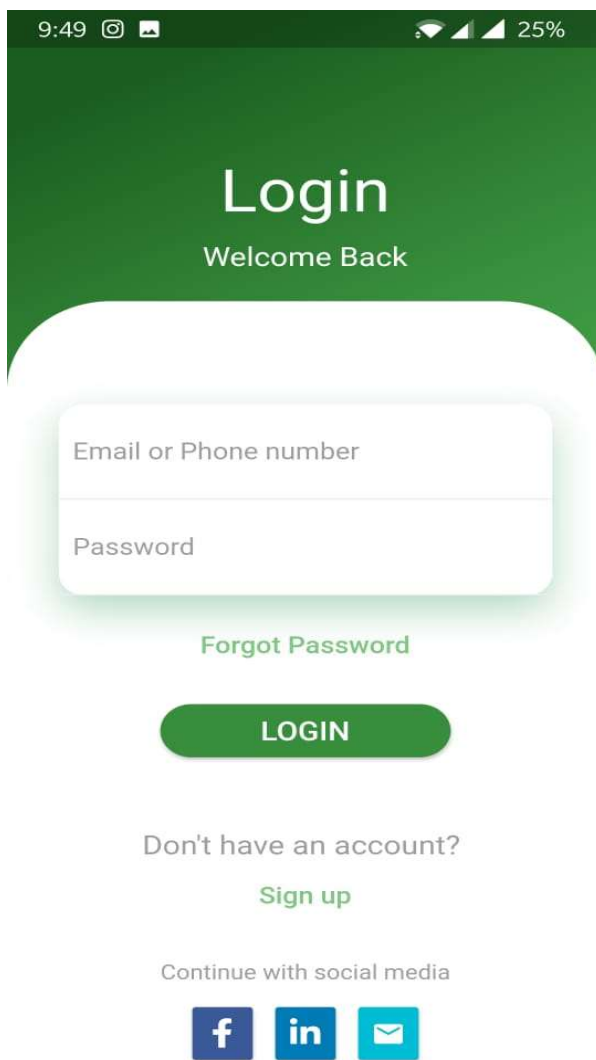
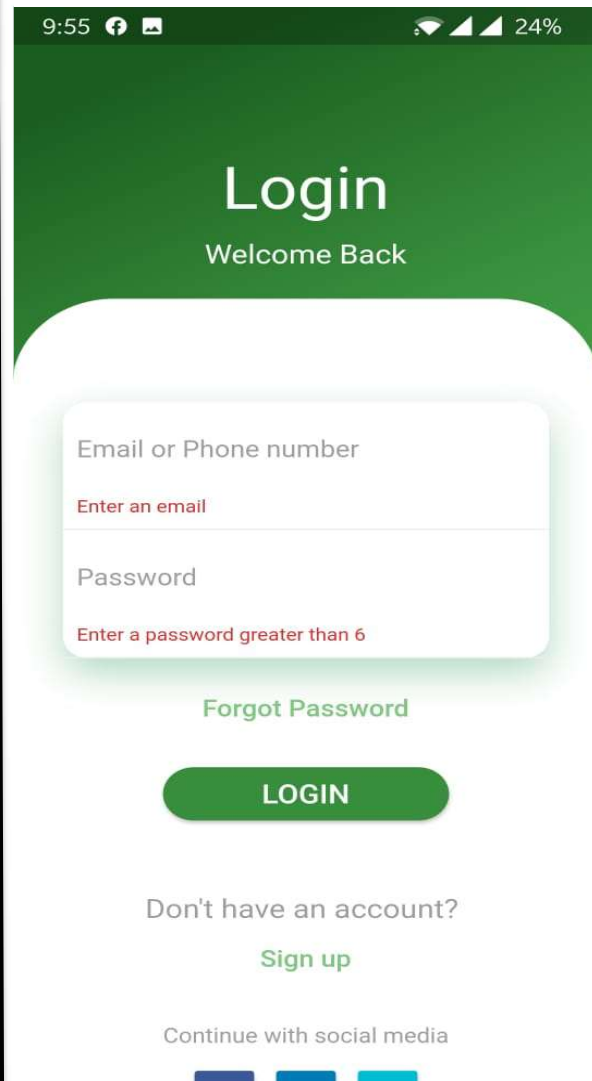


FIG2-



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-

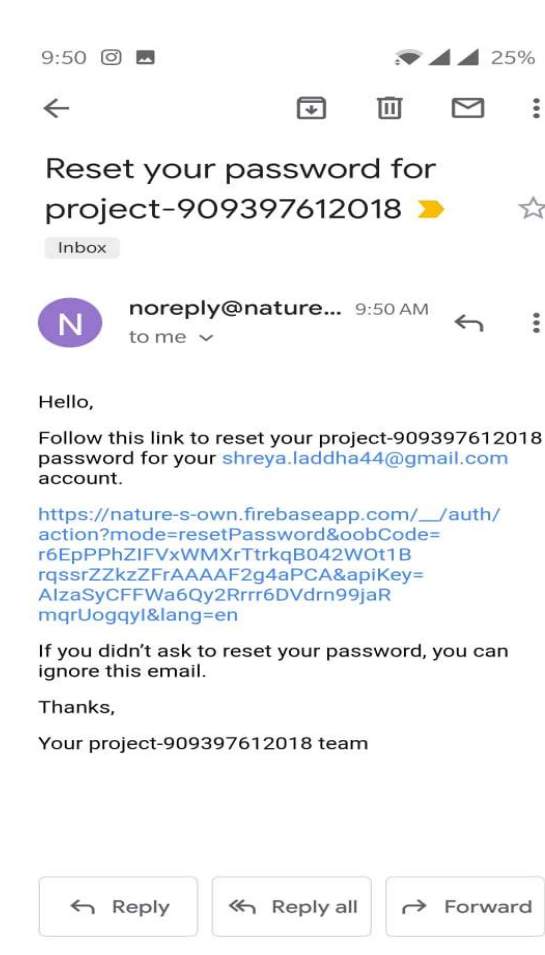
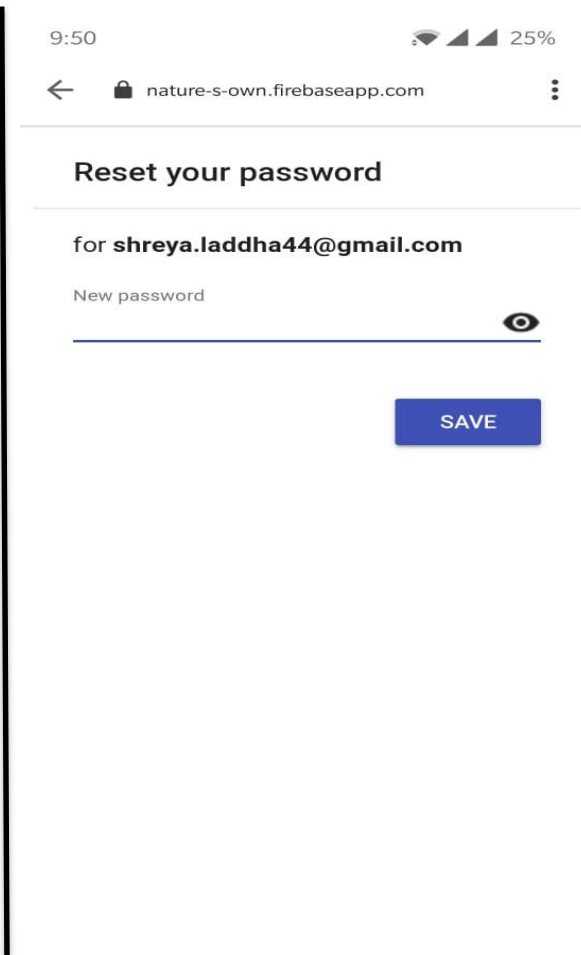


FIG4-



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-

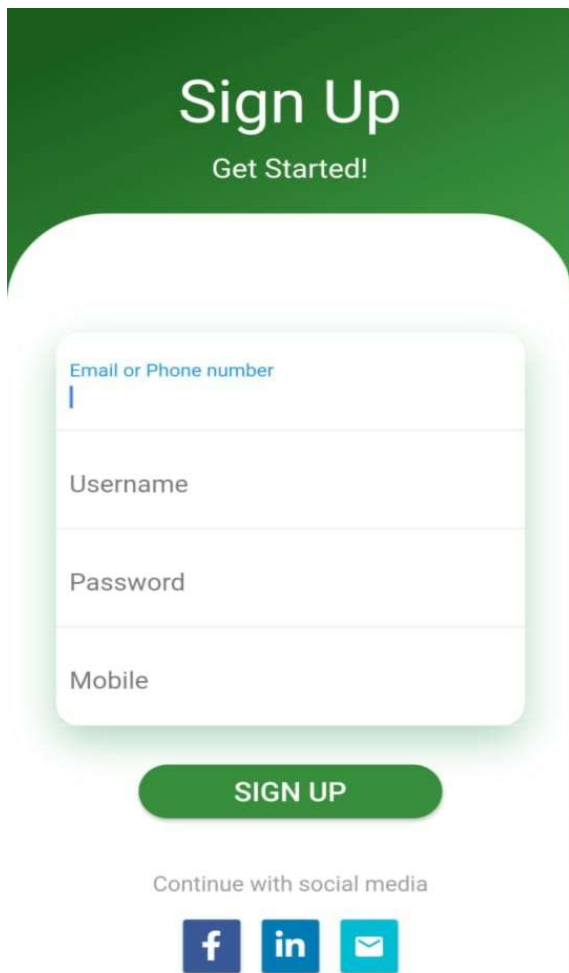


FIG5 shows a mobile app sign-up screen. The header is green with the text "Sign Up" and "Get Started!". Below the header is a white rounded rectangle containing four input fields: "Email or Phone number", "Username", "Password", and "Mobile". Below these fields is a green "SIGN UP" button. At the bottom, there is a link "Continue with social media" and three social media icons: Facebook, LinkedIn, and Email.

FIG6-

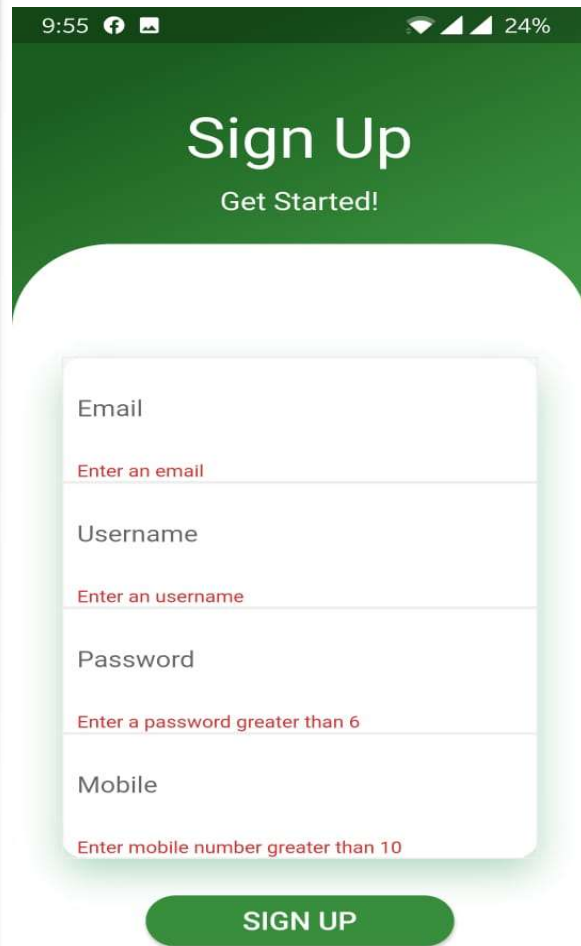


FIG6 shows the same mobile app sign-up screen as FIG5, but with validation messages displayed below each input field. The messages are: "Enter an email" for Email, "Enter an username" for Username, "Enter a password greater than 6" for Password, and "Enter mobile number greater than 10" for Mobile. The "SIGN UP" button is still present at the bottom.

HOME:

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-

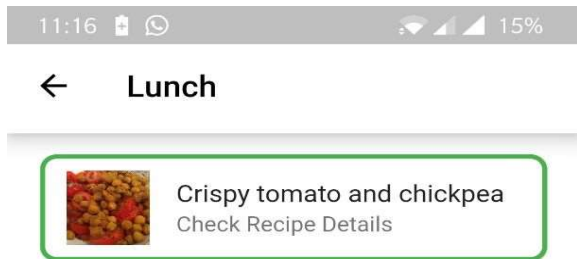
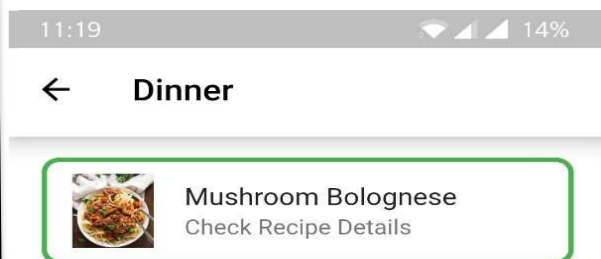


FIG9-



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-

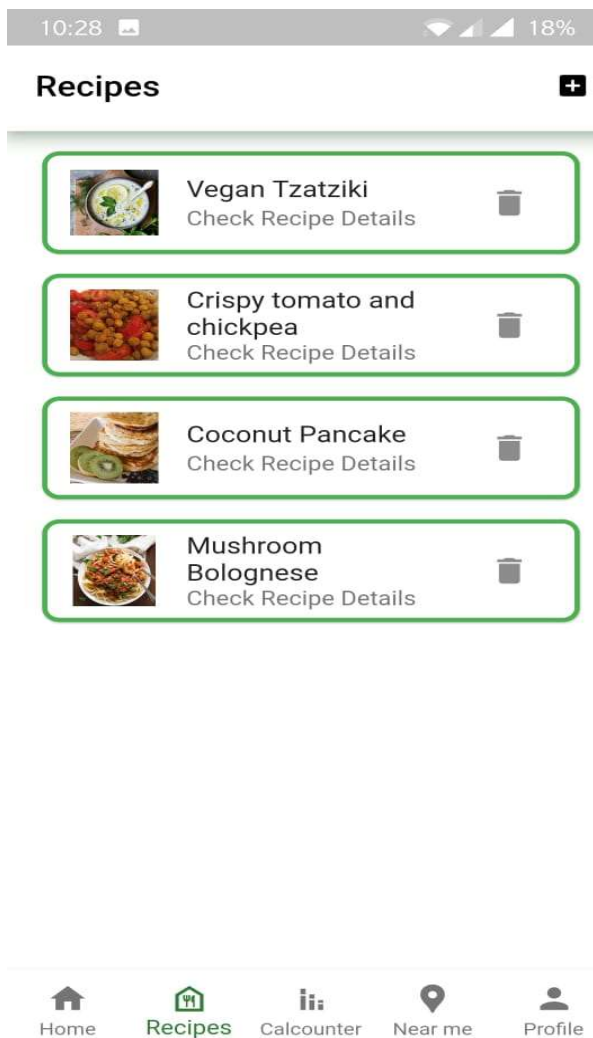
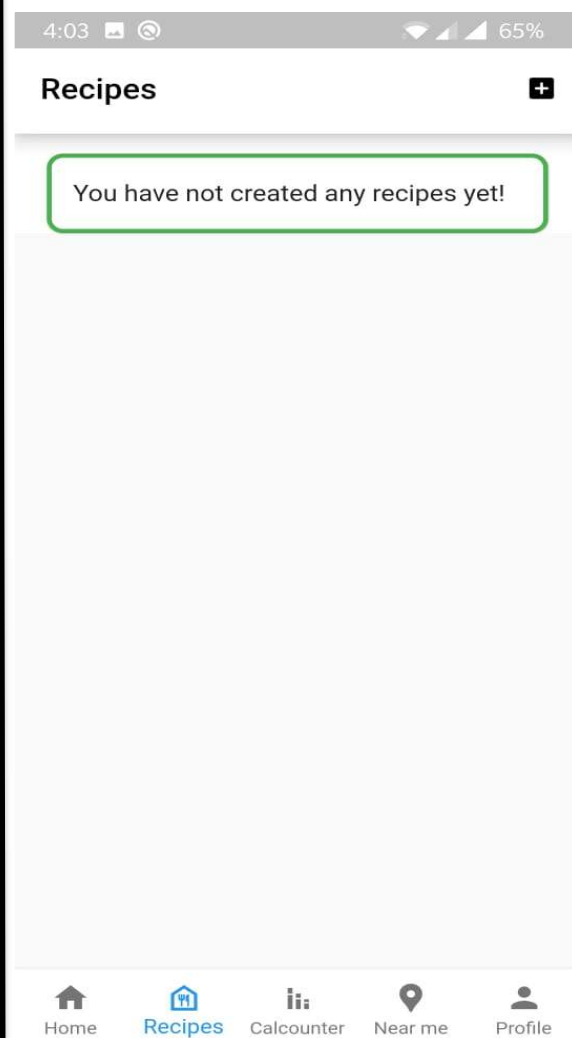
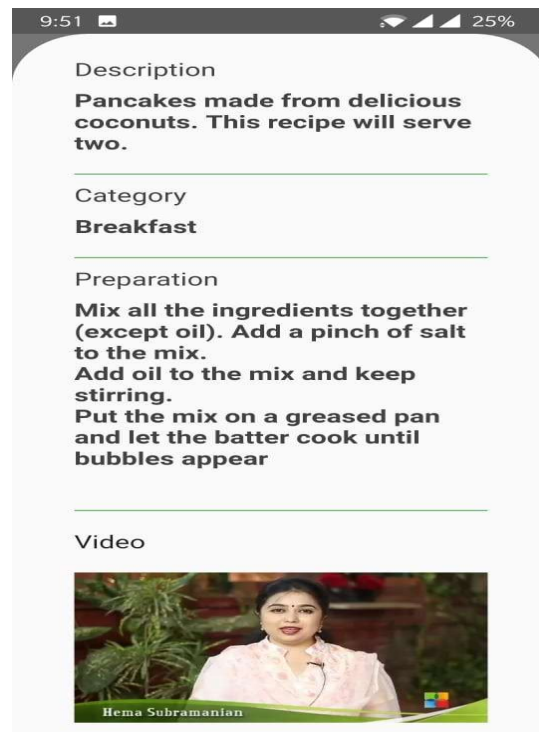
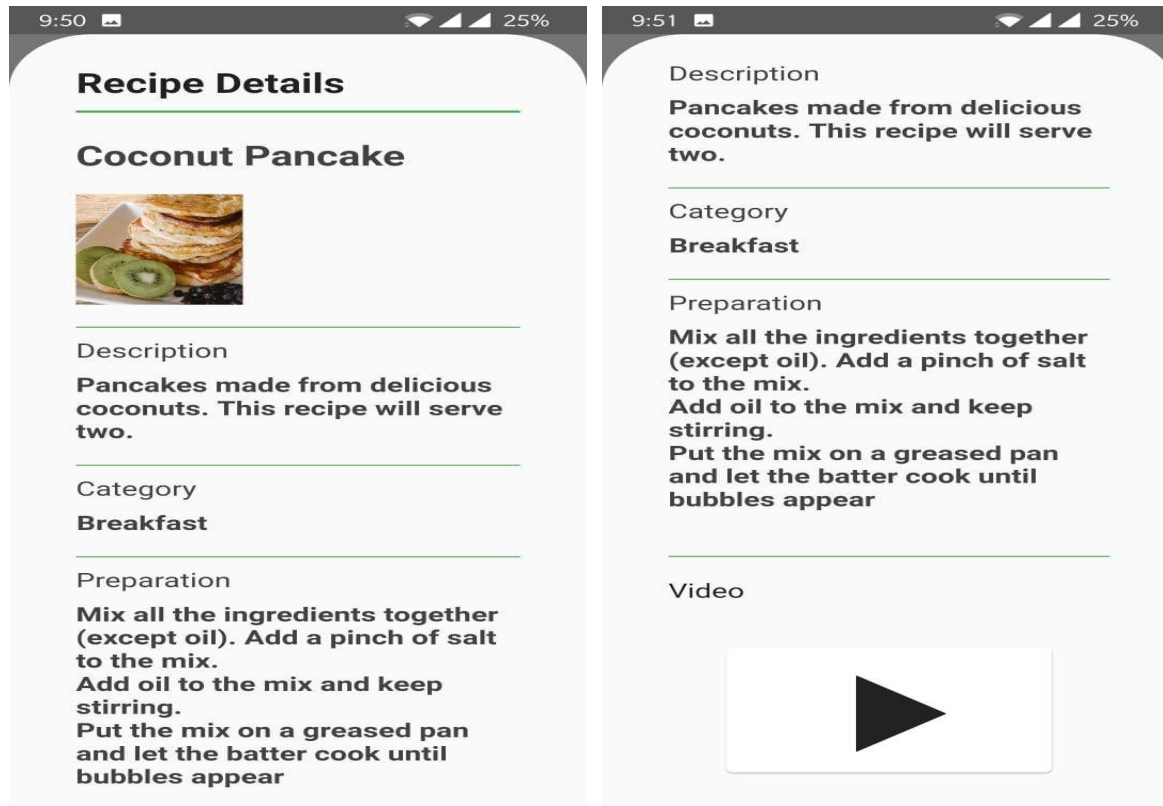


FIG11-



RECIPE FORM:

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



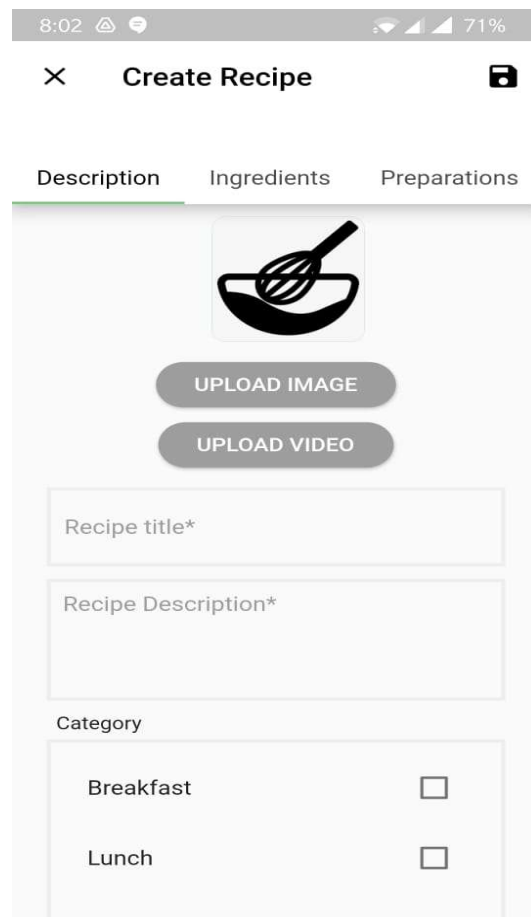
CREATE RECIPE:

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.

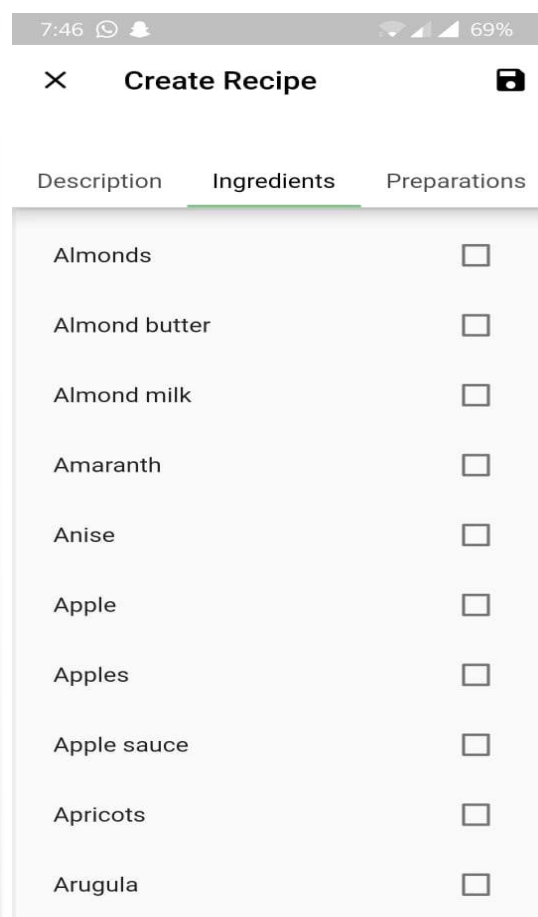
The page uses **Tab view** for the three different sections to create the recipe.

FIG12-



The screenshot shows the 'Create Recipe' screen with the 'Description' tab selected. At the top, there's a status bar with the time 8:02 and 71% battery. The app title 'Create Recipe' is at the top. Below the tabs, there's a large image placeholder with a whisk icon, and two buttons: 'UPLOAD IMAGE' and 'UPLOAD VIDEO'. Below these are two text input fields: 'Recipe title*' and 'Recipe Description*'. At the bottom, there's a 'Category' section with two options: 'Breakfast' and 'Lunch', each with an unchecked checkbox.

FIG13-

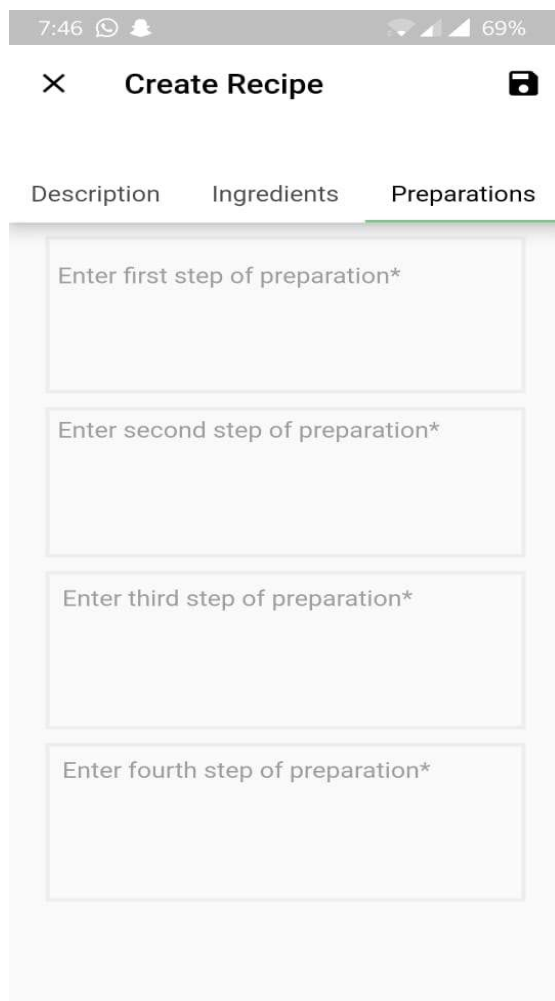


The screenshot shows the 'Create Recipe' screen with the 'Ingredients' tab selected. At the top, there's a status bar with the time 7:46 and 69% battery. The app title 'Create Recipe' is at the top. Below the tabs, there's a list of ingredients with checkboxes: Almonds, Almond butter, Almond milk, Amaranth, Anise, Apple, Apples, Apple sauce, Apricots, and Arugula. All checkboxes are currently unchecked.

User needs to add a detailed instruction set of the recipe they intended to add. The steps should be clear and precise.

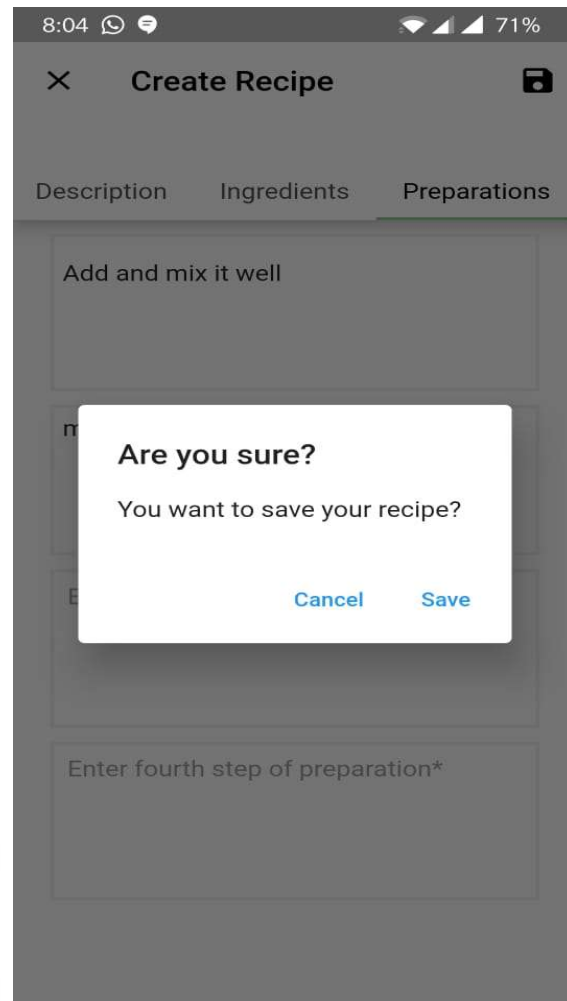
After adding all the mandatory fields, the user is supposed to save the file. When they click on that option, a popup will come asking if they are sure.

FIG14-



The screenshot shows a mobile application interface for creating a recipe. At the top, there is a status bar with the time 7:46, signal strength, and 69% battery. Below the status bar is a header with a close button (X), the title 'Create Recipe', and a save icon. The main content area has three tabs: 'Description', 'Ingredients', and 'Preparations'. The 'Preparations' tab is selected and highlighted with a green underline. Below the tabs, there are four empty text input fields, each with a placeholder text: 'Enter first step of preparation*', 'Enter second step of preparation*', 'Enter third step of preparation*', and 'Enter fourth step of preparation*'. The background is a light gray.

FIG15-



The screenshot shows the same mobile application interface as FIG14, but with a confirmation dialog box overlaid in the center. The dialog box has a white background and a gray border. It contains the text 'Are you sure?' in bold, followed by 'You want to save your recipe?'. At the bottom of the dialog box, there are two buttons: 'Cancel' and 'Save', both in blue text. The background of the app is dimmed to a dark gray color. The status bar at the top shows the time 8:04, signal strength, and 71% battery.

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-

9:46 26%

Calorie Counter

User Calorie Counter
Enter details to see Statistics >

Daily Calories

● Breakfast ● Snack
● Lunch ● Dinner

Home Recipes **Calcounter** Near me Profile

FIG17-

9:46 26%

Calorie Counter

User Calorie Counter
Enter details to see Statistics >

Daily Calories

Enter Daily Calories

Breakfast
0

Lunch
0

Dinner
0

Snacks
0

Submit

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-

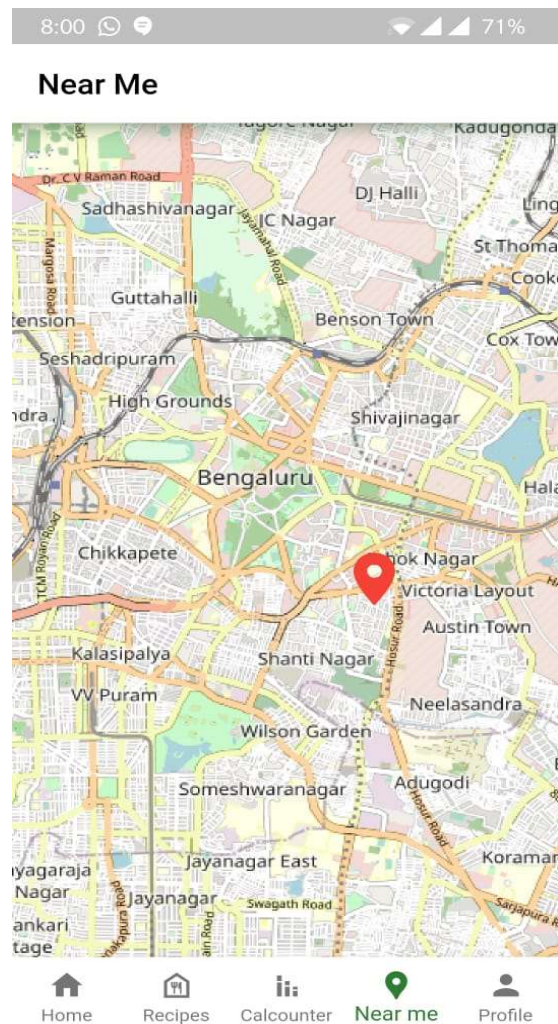
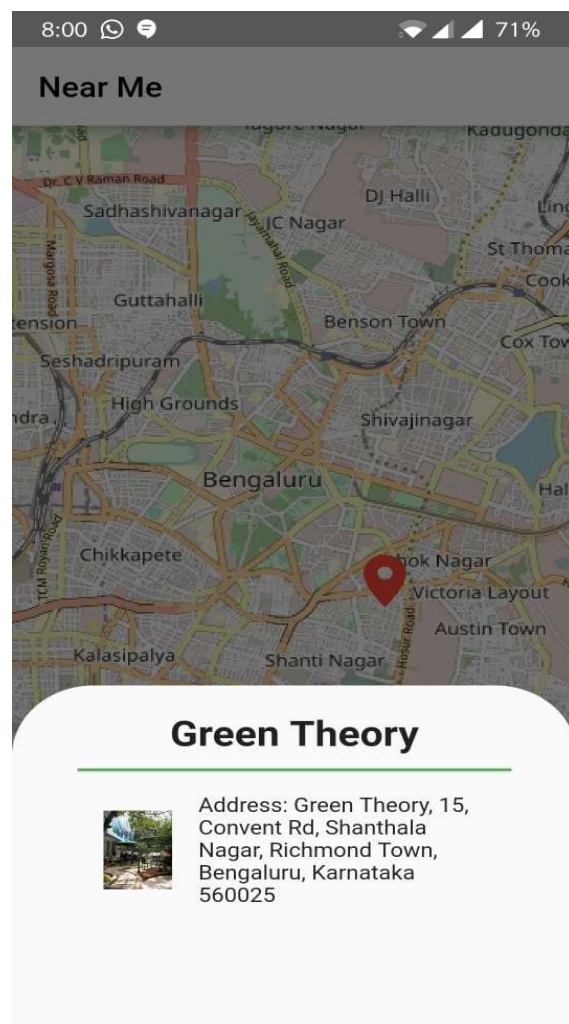


FIG20-



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-

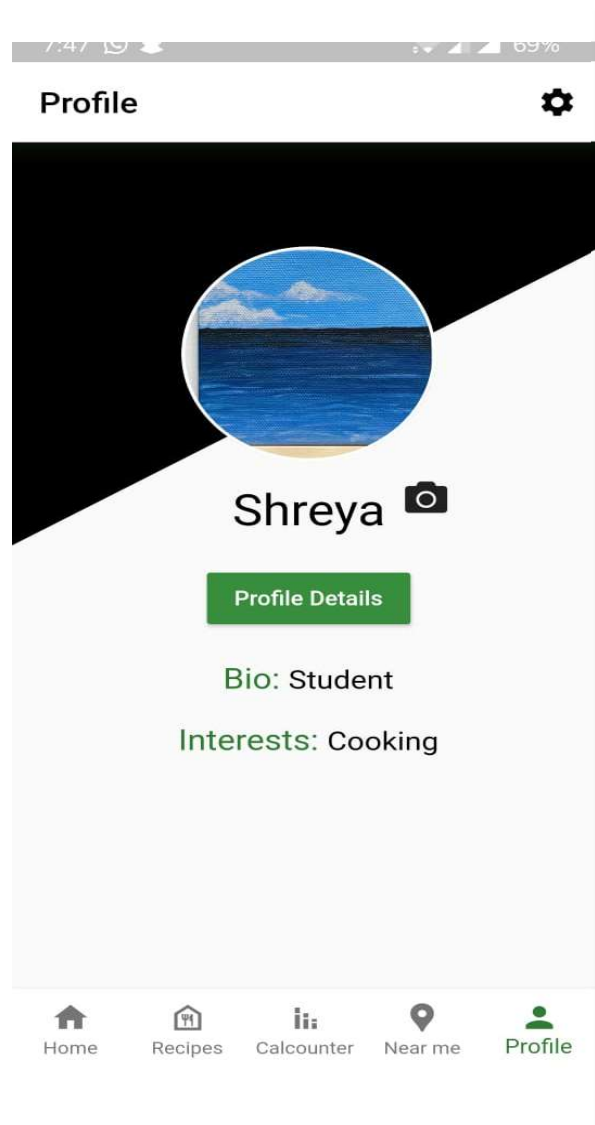


FIG22-

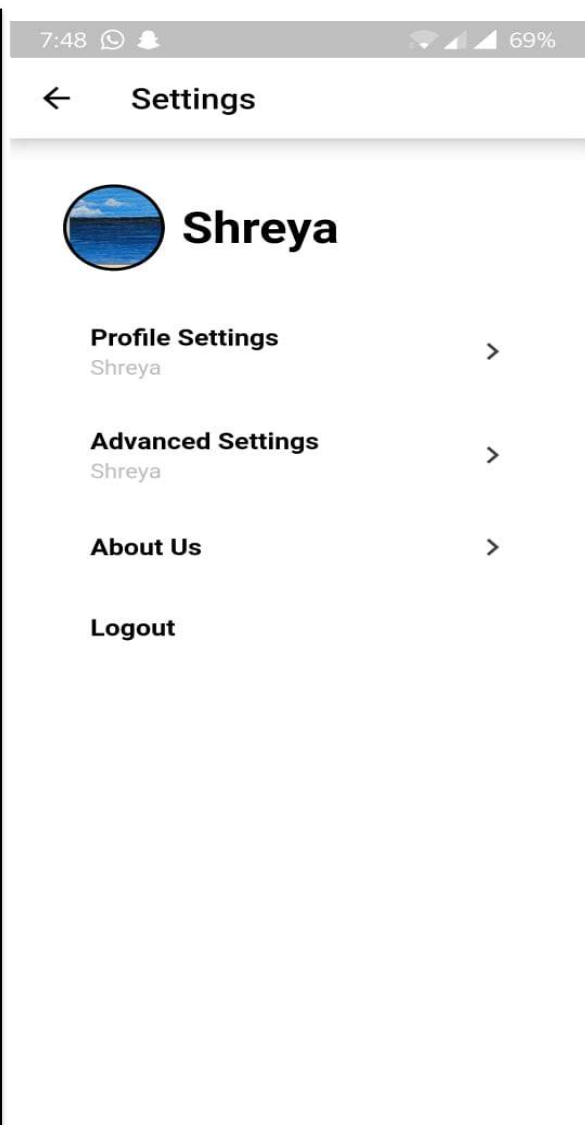


Fig23- This is the bottom sheet modal which is displayed to update users height weight and age, known as the advanced settings.

FIG23-

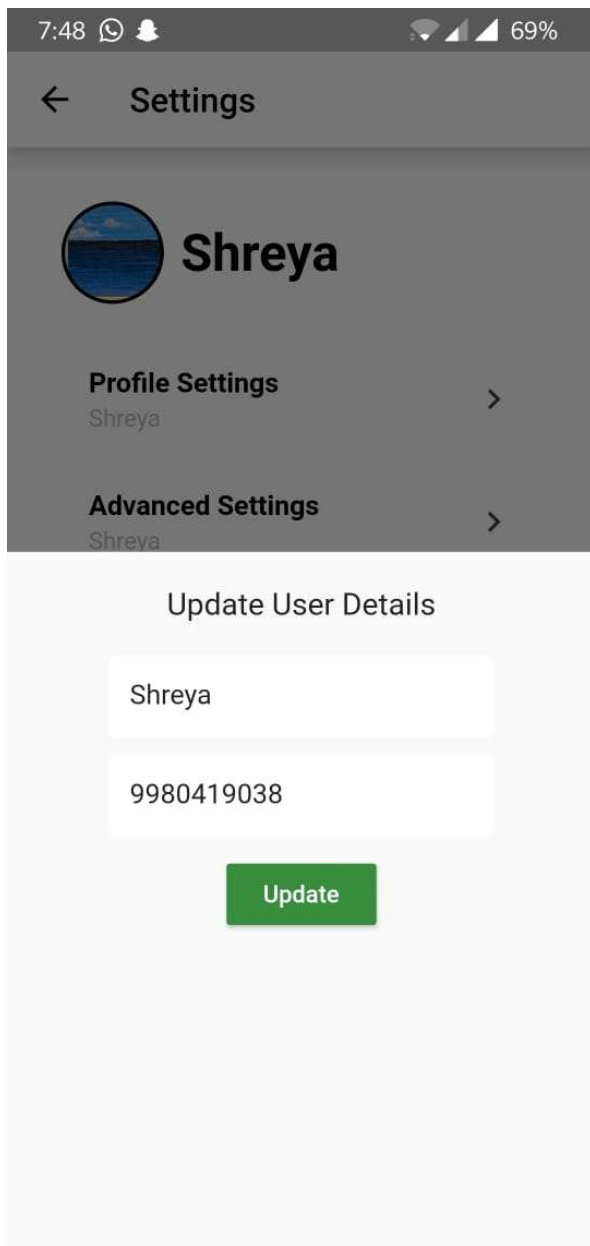


FIG24-




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

FIG25-



7:48 Settings

 **Shreya**

Profile Settings >
Shreya

Advanced Settings >
Shreya

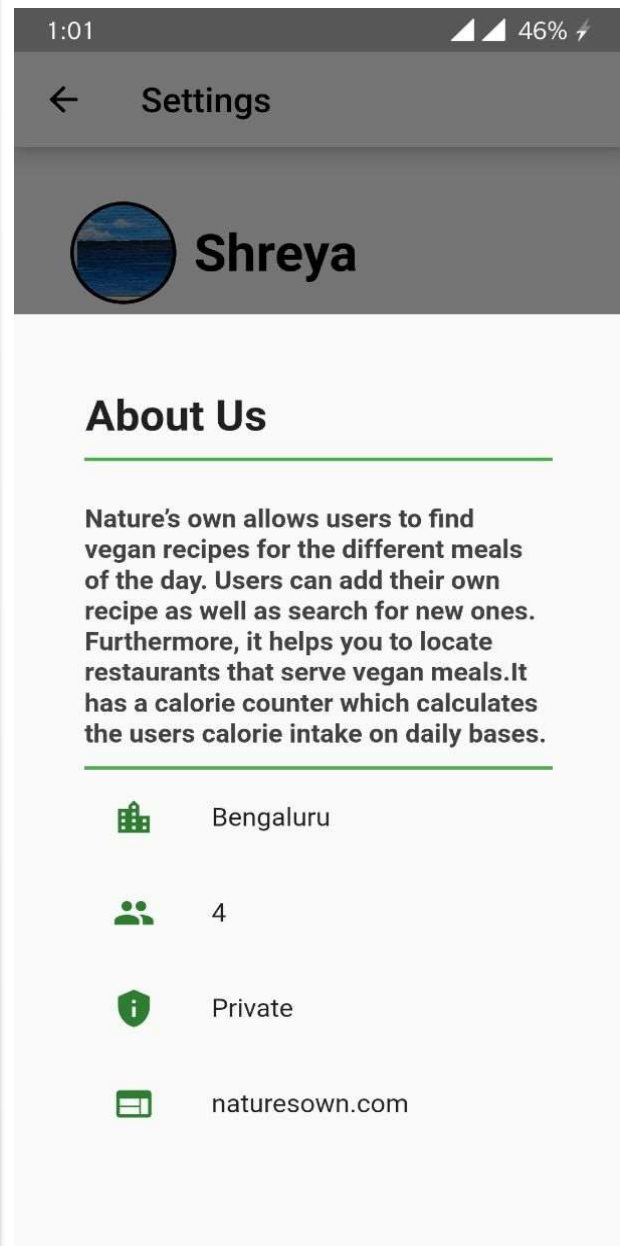
Update User Details

Shreya


9980419038

Update

FIG26-





1:01 Settings


 **Shreya**


About Us

Nature's own allows users to find vegan recipes for the different meals of the day. Users can add their own recipe as well as search for new ones. Furthermore, it helps you to locate restaurants that serve vegan meals. It has a calorie counter which calculates the users calorie intake on daily bases.

 Bengaluru

 4

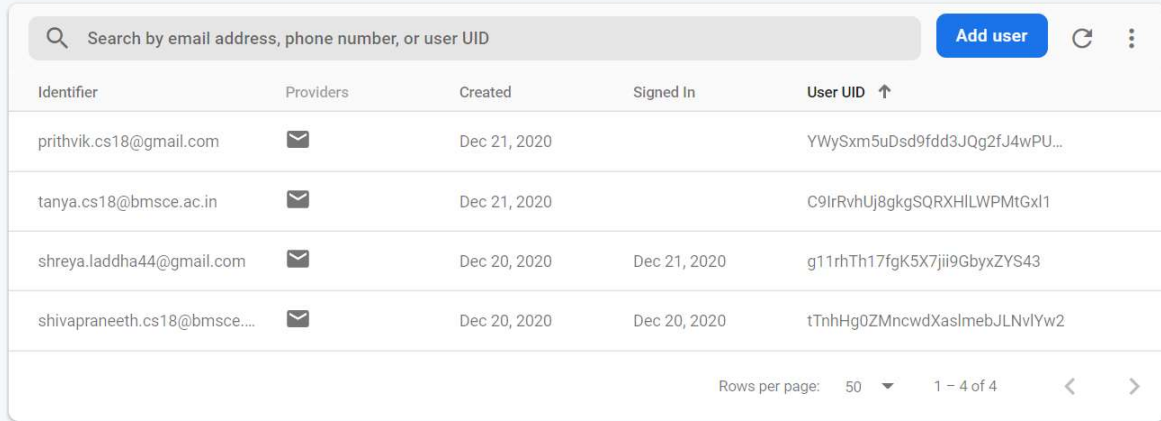
 Private

 naturesown.com

Database Table Screen shots

User Authentication table:

FIG27-



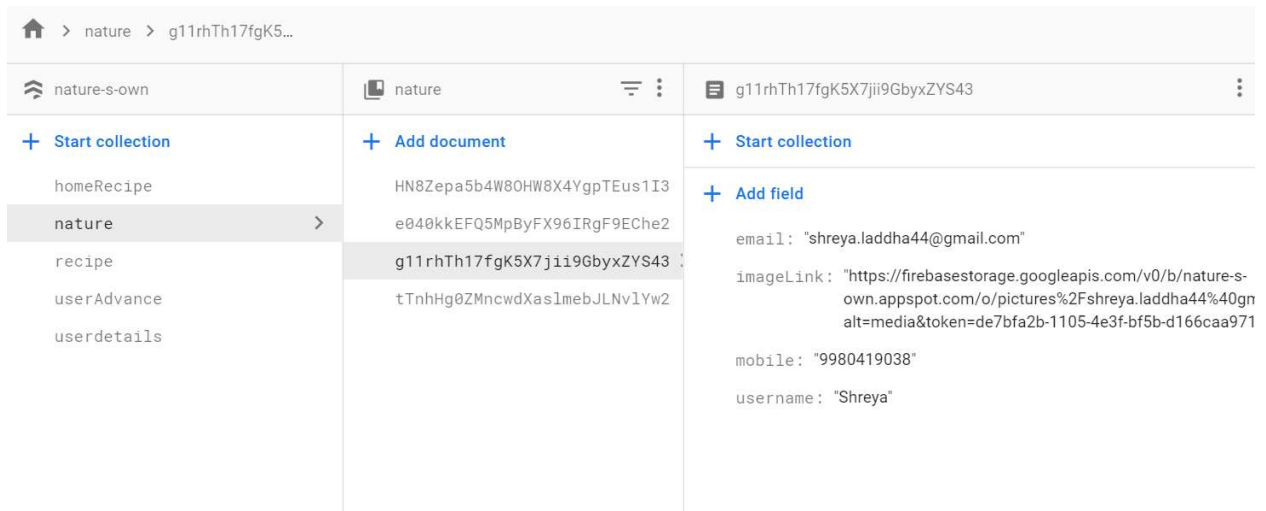
The screenshot shows a database table with the following columns: Identifier, Providers, Created, Signed In, and User UID. The table contains four rows of user data. At the top, there is a search bar and an 'Add user' button. At the bottom, there is a pagination control showing 'Rows per page: 50' and '1 - 4 of 4'.

Identifier	Providers	Created	Signed In	User UID ↑
prithvik.cs18@gmail.com	✉	Dec 21, 2020		YWySxm5uDsd9fdd3JQg2fJ4wPU...
tanya.cs18@bmsce.ac.in	✉	Dec 21, 2020		C9lrRvhUj8kgSQRXHILWPMtGx1
shreya.laddha44@gmail.com	✉	Dec 20, 2020	Dec 21, 2020	g11rhTh17fgK5X7jii9GbyxZYS43
shivapraneeth.cs18@bmsce....	✉	Dec 20, 2020	Dec 20, 2020	tTnhHg0ZMncwdXaslmebJLNvlyw2

Cloud Firestore:

User details:

FIG27-



The screenshot shows the Cloud Firestore console. The breadcrumb navigation is 'nature > g11rhTh17fgK5...'. The left sidebar shows a collection 'nature-s-own' with a sub-collection 'nature' selected. The main area shows the details of the document 'g11rhTh17fgK5X7jii9GbyxZYS43'. The document contains the following fields: email, imageLink, mobile, and username.

nature-s-own	nature	g11rhTh17fgK5X7jii9GbyxZYS43
+ Start collection	+ Add document	+ Start collection
homeRecipe	HN8Zepa5b4W80HW8X4YgpTEus1I3	+ Add field
nature	e040kkEFQ5MpByFX96IRgF9Eche2	email: "shreya.laddha44@gmail.com"
recipe	g11rhTh17fgK5X7jii9GbyxZYS43	imageLink: "https://firebasestorage.googleapis.com/v0/b/nature-s-own.appspot.com/o/pictures%2Fshreya.laddha44%40gnalt=media&token=de7bfa2b-1105-4e3f-bf5b-d166caa971"
userAdvance	tTnhHg0ZMncwdXaslmebJLNvlyw2	mobile: "9980419038"
userdetails		username: "Shreya"

User Advances Details:

FIG28-

🏠 > userAdvance > g11rhTh17fgK5...		
🏠 nature-s-own	📄 userAdvance	📄 g11rhTh17fgK5X7jii9GbyxZYS43
+ Start collection	+ Add document	+ Start collection
homeRecipe	HN8Zepa5b4W80HW8X4YgpTEus1I3	+ Add field
nature	e040kkEFQ5MpByFX96IRgF9EChe2	age: "21"
recipe	g11rhTh17fgK5X7jii9GbyxZYS43	height: "5.1"
userAdvance >	tTnhHg0ZMncwdXas1mebJLNv1Yw2	weight: "47"
userdetails		

User Profile details:

FIG29-

🏠 > userdetails > g11rhTh17fgK5...		
🏠 nature-s-own	📄 userdetails	📄 g11rhTh17fgK5X7jii9GbyxZYS43
+ Start collection	+ Add document	+ Start collection
homeRecipe	HN8Zepa5b4W80HW8X4YgpTEus1I3	+ Add field
nature	e040kkEFQ5MpByFX96IRgF9EChe2	bio: "Student. Self made"
recipe	g11rhTh17fgK5X7jii9GbyxZYS43	interests: "Cooking"
userAdvance	tTnhHg0ZMncwdXas1mebJLNv1Yw2	
userdetails >		

Recipe tables:

1.1: Collection(Recipe)->

Document(userID)->

Collection(recipes)->

Document(recipeId)

FIG30-

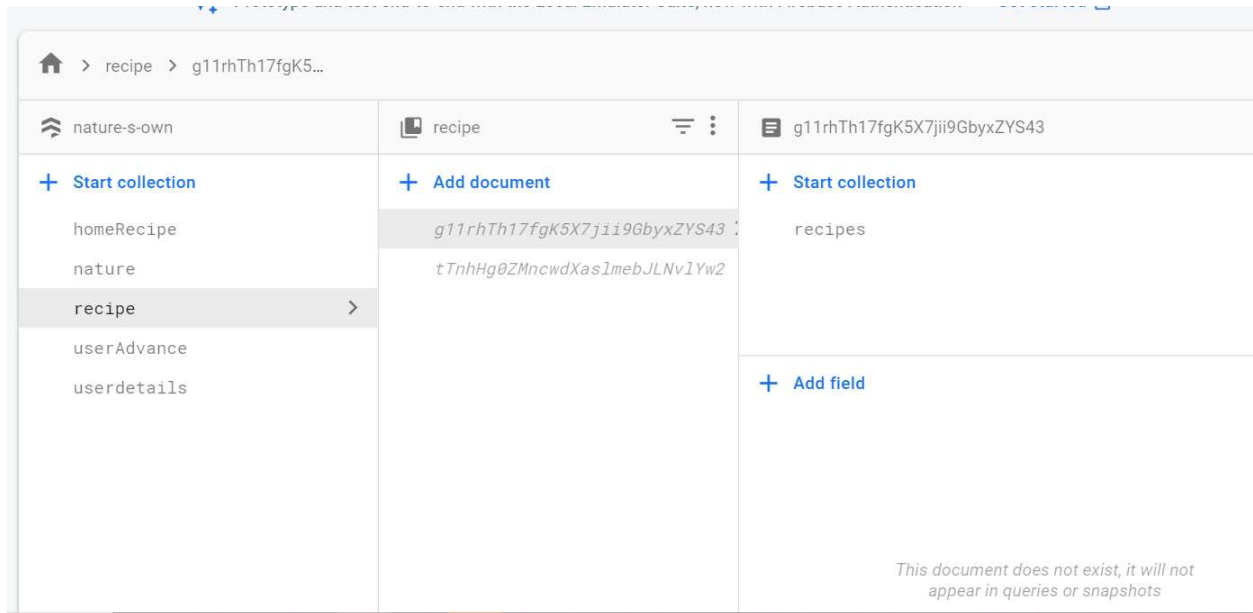
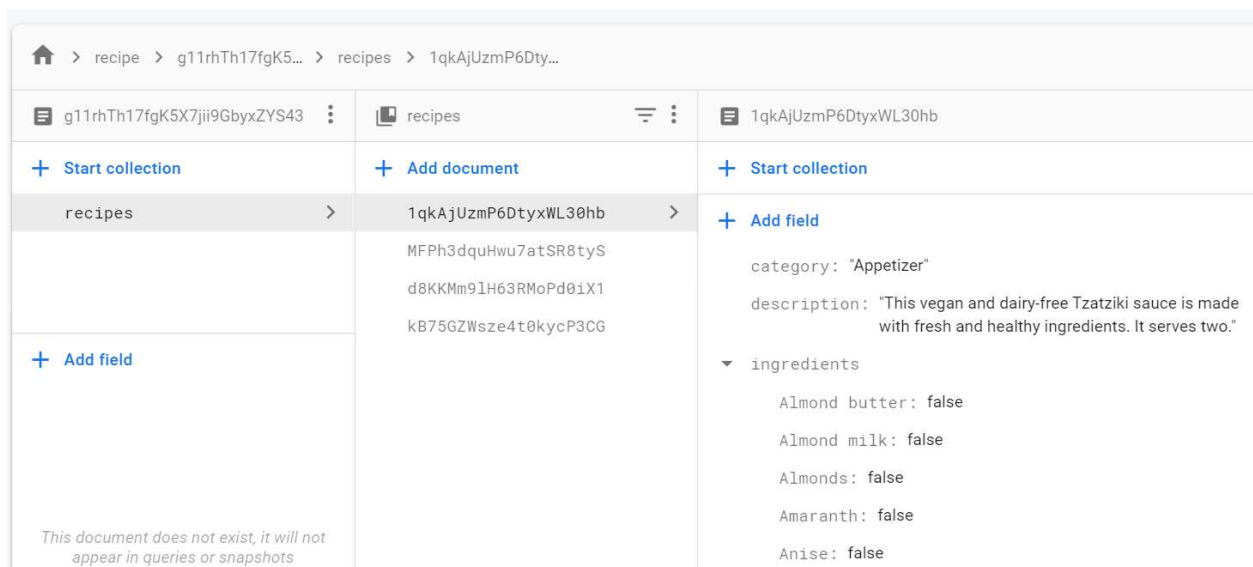


FIG31-



Home Recipes:

Collection(homeRecipe)->

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

Collection(breakfastRecipes)[respective]->

Document(RecipeId).

FIG32-

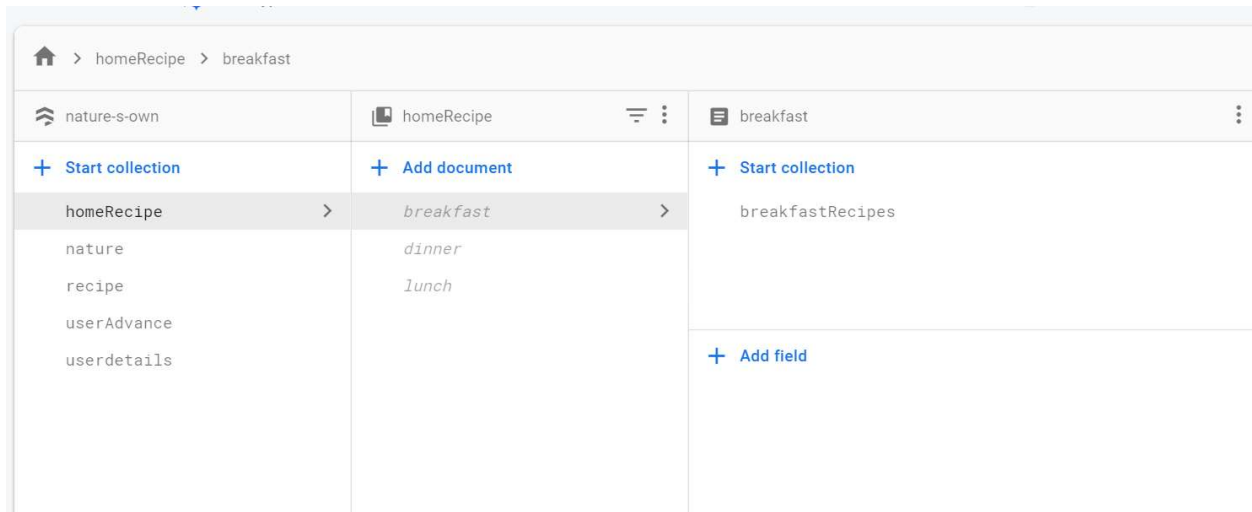
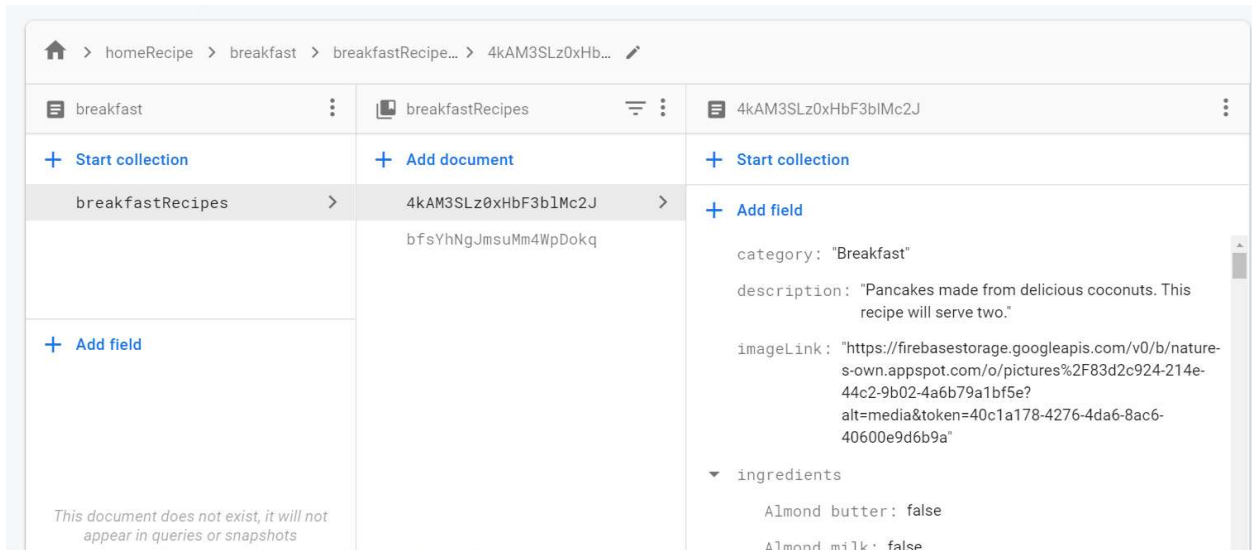


FIG33-



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