

## **MINI PROJECT-II**

**(2020-21)**

### **Cooking Recipes View-Share App and Website(CookiT)**

#### **Mid Term Report**



**Institute of Engineering & Technology**

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## **Abstract**

This project is related to the development of an android application and website where we are going to allow the users to view all different types of recipes as well as share their own with the world without having to go through the hassle of browsing through a lot of different type of websites for a different type of cuisines and wasting time. This project is based on various technologies that include the cross-platform framework FLUTTER for the android application part while also making use of HTML, CSS, and JavaScript for the web part. For the backend, we are using Firebase, a cloud service provider by Google, and is used as BaaS(Background As A Service) in our project. Firebase is also used for other purposes such as hosting of the website, authentication, and Data Storage. Firebase is very much in trend currently supporting more than 6.5 million live projects making it one of the biggest cloud service providers. On the other hand, flutter being launched 4 years ago is relatively new and is counted as the new technology with the most potential. Flutter is based on the Dart language which has compile and runtimes relative to the C-language. For the website part, we are using FullStack which is a combination of HTML5, CSS, and JavaScript, and firebase working as a background service.

There are a lot of functionalities that are being provided through our project to its users. For instance, firstly there is going to be authentication or a signup activity or module with various methods such as google sign in and phone authentication other than that there will be options of sharing their creations, getting to know the knowledge on the cooking of others, there is also a profile page given to the users so that they can update important parts in their details such as the contact details.

Working on the above-mentioned technologies is also going to be a new experience for us and an opportunity to learn them. Our project is going to allow its users a comfortable environment where they can easily do their work without facing any discrepancies regarding the nature of the flow of our project. Many more things are there to add to this project, but it can still be considered a good project. Every project comes with a perspective of extension so as this one also. In terms of extension, there is a possibility of adding various other options, such as following your above-mentioned favorite chef or bringing videos and all of the recipes. The hardware and software requirements of our project are not so non-affordable instead they just meet the basic requirement of a pc.

This project is to be designed as dynamic, attractive, and reactive so that more users can be drawn towards it. This is what remains the last goal whenever we develop something like an application/website.

# 1. Introduction

## 1.1 General Introduction to the topic

We are going to work on a project where we will be developing a combination of a website and an android application that will allow its users to share and learn the cooking recipes of various cuisines they want to learn. Talking about more on our project it provides different functionalities to its user. The users along with adding their recipes, choosing between some random ones to try out, or picking the best of the day can also add his/her recipe to the fray making it available to the world to try out. The technologies that are being used in this project or for the development of this project are Flutter (Dart based cross-platform development framework used to develop smartphone applications) with Firebase cloud service provider as database, user authenticator, and providing hosting for the website is going to be used for the backend.

Working on the above-mentioned technologies is also going to be a new experience for us and an opportunity to learn them. Our project is going to allow its users a comfortable environment where they can easily do their work without facing any discrepancies regarding the nature of the flow of our project. Many more things are there to add to this project, but it can still be considered a good project. etc.

This project is based on various technologies that include the cross-platform framework FLUTTER for the android application part while also making use of HTML, CSS, and JavaScript for the web part. For the backend, we are using Firebase, a cloud service provider by Google, and is used as BaaS(Background As A Service) in our project. Firebase is also used for other purposes such as

hosting of the website, authentication, and Data Storage. This project along with all the above-mentioned functionalities, factors, and requirements also has a uniqueness among other similar kinds of applications. On this application the user is on their own will be able to select randomly from the huge fray available or pick the peoples favorite. It is being provided to our users no charge is applicable. In this world of competition, we hope that our project is going to find its place as an interesting platform.

## **1.2 Motivation**

Every motivation arrives from a problem which in turn needs a solution. So, this is the case with this one as well. The current pandemic situation i.e. the Covid-19 scenario needs no introduction, we all suffered from it and are suffering from it yet now. During this period our best is to be at home and stay safe. Now, being at home with ample time on our hands' people went to explore themselves engaging in pursuing their hobbies or procure some new and interesting ones. This exploration leads many to the world of cooking where they tried to try out new flavors and create some as well. One such fine example is the trend of making "Dalgona Coffee". To fulfill this exploration, people had to go through various websites to find the right recipe or to even pay to get the information while on the other side of things if you want to share some new one with others you have a very limited audience in form of your friends on Facebook or your followers on Instagram. But, both of these options end at your reach. There is no way thousands of other like-minded people want to try something new to sate their curiosity. For this to happen, we decide to make a platform where recipes from over the internet, a few homemade ones are

available to the user, also giving users the platform to share their owners with the world. And thus, this platform called “CookiT” is the one our team developed. For reaching out to the maximum number of users we decided to implement the idea, not for the biggest smartphone operating system i.e. Android but also the web. And, using the cross-platform framework can also be used to implement to other operating systems such as iOS. the major role of the platform is to save users their precious time, giving them an ad-free experience while pursuing their hobbies to the fullest and allowing them to share their creations with the world. This is what acted as the main motive behind the development of this platform. So once having a look at the problems now it was time to provide the solution for the same. The solution was none other than making this platform where all the above-mentioned problems and requirements can be ended.

### **1.3.1 Hardware Requirements**

- A personal computer for developing the project with a minimum i3 core processor and 4GB of RAM.

### **1.3.2 Software requirements**

- Windows 10 Operating System
- Android Studio
- Flutter SDK
- Firebase Integration
- Visual Studio Code
- Git Client

## **2. Problem Statement**

The problem statement for the project is to make a platform where we can allow its users to share and view the recipes to different cuisines and other users to also see those recipes. This will also solve the problem of searching recipes on different websites that will surely waste the time of the users and in some cases save their hard-earned money. Also, this website solves the problem that one thinks might arrive at the time of recipe searching is that one particular recipe search leads to that recipes only but in the case of this platform there will be a lot of similar recipes on the same page or the website. Many other small problems will also be solved through this application.

## **3. Project Objectives**

Objectives are important; they play a vital role in project completion as they lead to the desired output. While working on a project the objectives should be made clear so that at the end you can have an idea that what you were looking for is achieved or not. What we are looking at as an objective in this project is that the user that comes to our platform must feel comfortable with its environment first of all. Then the features or the functionalities that are going to be made available for our users must be not too hard to understand. All these factors are going to play an important role when we are looking for a platform that is easy to use.



## **Easy addition and deletion of videos:**

Everything that has two options what is preferred the most in life. Like if you have a chance to get back from where you started that is what we are going to make available for our users on our platform. Not only they can add their recipe's but also can delete them whenever they want to or feel needless of their recipe.

Through our cooking recipes platform, we are going to allow the users to avail themselves of the functionality of adding the recipes on our platform as well as deleting those as per their discretion to implement. Both these options will be given on keeping in mind that it is a matter of time when one realizes that the recipes need to be added or deleted. The one who will add the recipe will only be the one to delete it.

## **Providing an attractive and hassle-free platform:**

Most of the searched recipes are generally either exotic foods or the daily ones with a twist for a taste anew and our project is here to provide a platform for the same thing. This also increases the chances for our platform to attract users towards it and to become a part of their daily lives. Also, we know that it is the kind of thing that will never get old or out of the version that is why our platform has a good scope in the future as well.

This platform is open for all its users and they can add recipes of both exotic cuisines and daily ones making it an entertaining platform. This will help to

increase the number of users that will use our platform and in turn, will make our platform a recognized one among other such variants.

## **4. Implementation details**

### **Home Page**

The page where the system users and website visitors will be redirected by default after logging in when browsing the CookiT platform. This page displays some randomly available recipes to try on, pick of the day as well as the option to search the desired one.

### **Login page**

The popup model where the system users submit their system credentials to access the data and functionalities of the CookiT platform.

### **Signup Page**

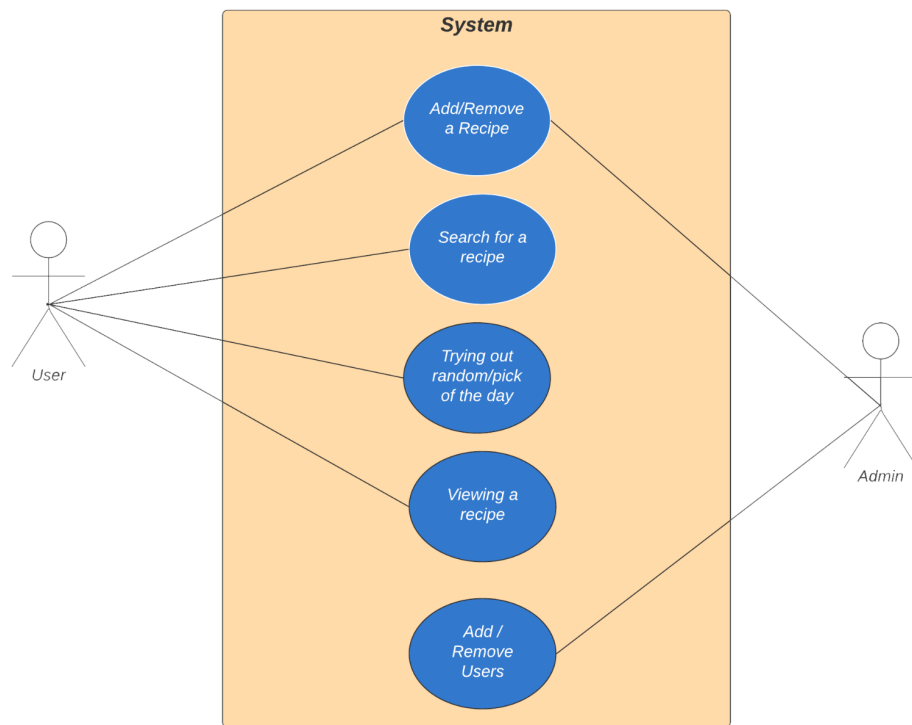
The page where the new users create their accounts.

### **Add / Delete page**

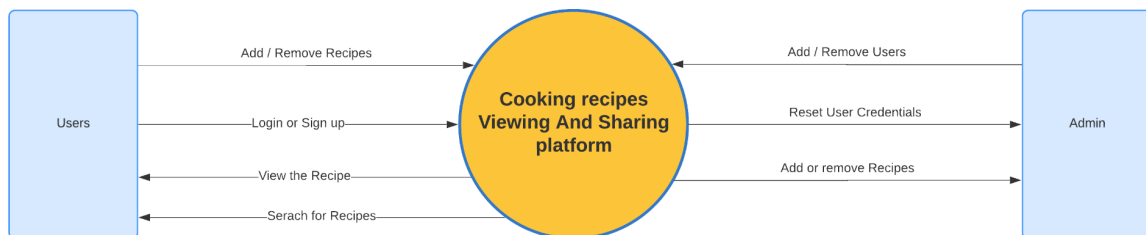
The page where the users add their new recipes and also when deleting their added recipes.

## **5. Design**

### **a. Use case**



## b. Level-0 DFD

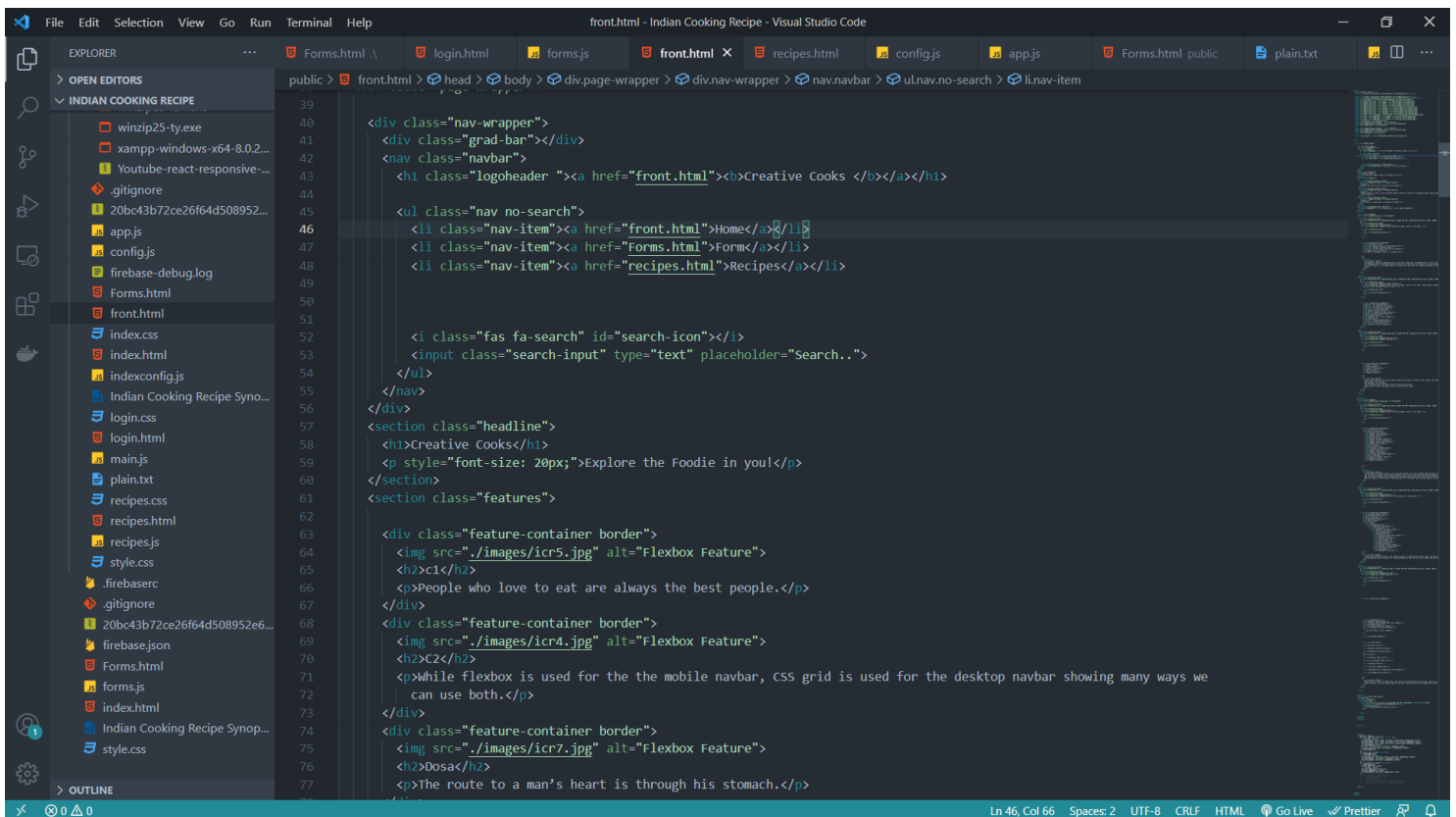


## 6. Progress till Date & The Remaining work

For now, we have completed the firebase integration in our project as well as the authentication modules in both web as well as the android application and the searching module is currently in progress while the recommendations module and recipe viewing and adding modules remain to be completed in the future.

## 7. Some screenshots

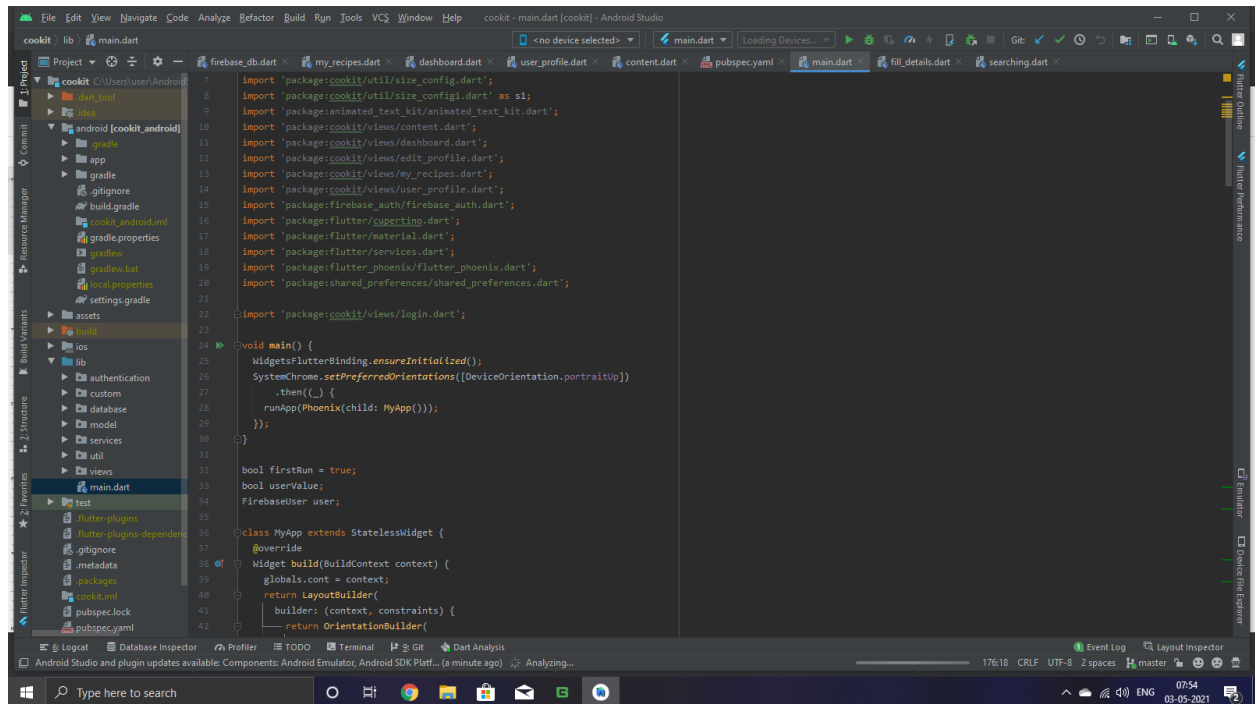
### Coding Part



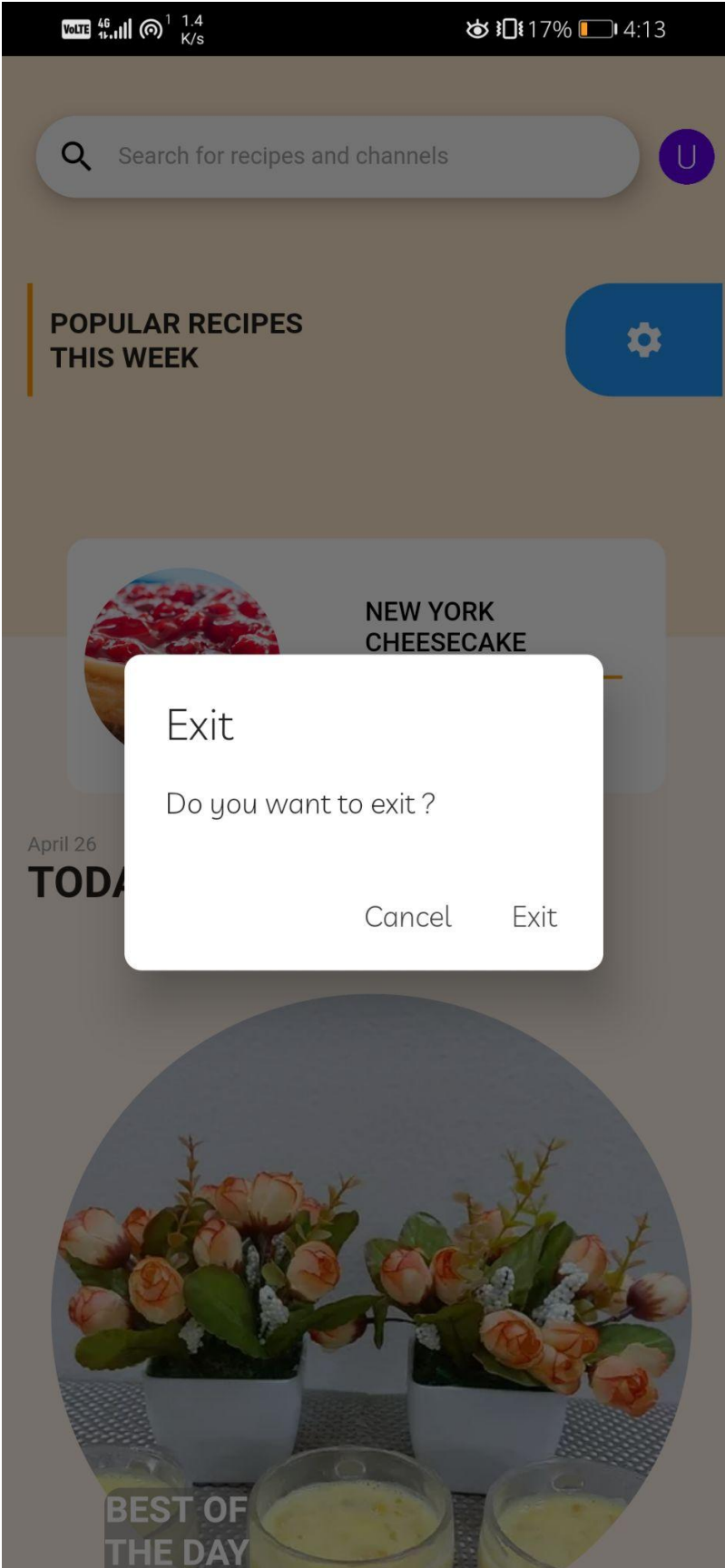
```
39 public > front.html > head > body > div.page-wrapper > div.nav-wrapper > nav.navbar > ul.nav.no-search > li.nav-item
40
41 <div class="nav-wrapper">
42 <div class="grad-bar"></div>
43 <nav class="navbar">
44 <h1 class="logoheader"><a href="front.html"><b>Creative Cooks </b></a></h1>
45
46 <ul class="nav no-search">
47 <li class="nav-item"><a href="front.html">Home</a></li>
48 <li class="nav-item"><a href="Forms.html">Form</a></li>
49 <li class="nav-item"><a href="recipes.html">Recipes</a></li>
50
51
52 <i class="fas fa-search" id="search-icon"></i>
53 <input class="search-input" type="text" placeholder="Search..">
54 </ul>
55 </nav>
56 </div>
57 <section class="headline">
58 <h1>Creative Cooks</h1>
59 <p style="font-size: 20px;">Explore the Foodie in you!</p>
60 </section>
61 <section class="features">
62
63 <div class="feature-container border">
64 
65 <h2>C1</h2>
66 <p>People who love to eat are always the best people.</p>
67 </div>
68 <div class="feature-container border">
69 
70 <h2>C2</h2>
71 <p>While flexbox is used for the the mobile navbar, CSS grid is used for the desktop navbar showing many ways we
72 can use both.</p>
73 </div>
74 <div class="feature-container border">
75 
76 <h2>Dosa</h2>
77 <p>The route to a man's heart is through his stomach.</p>
```

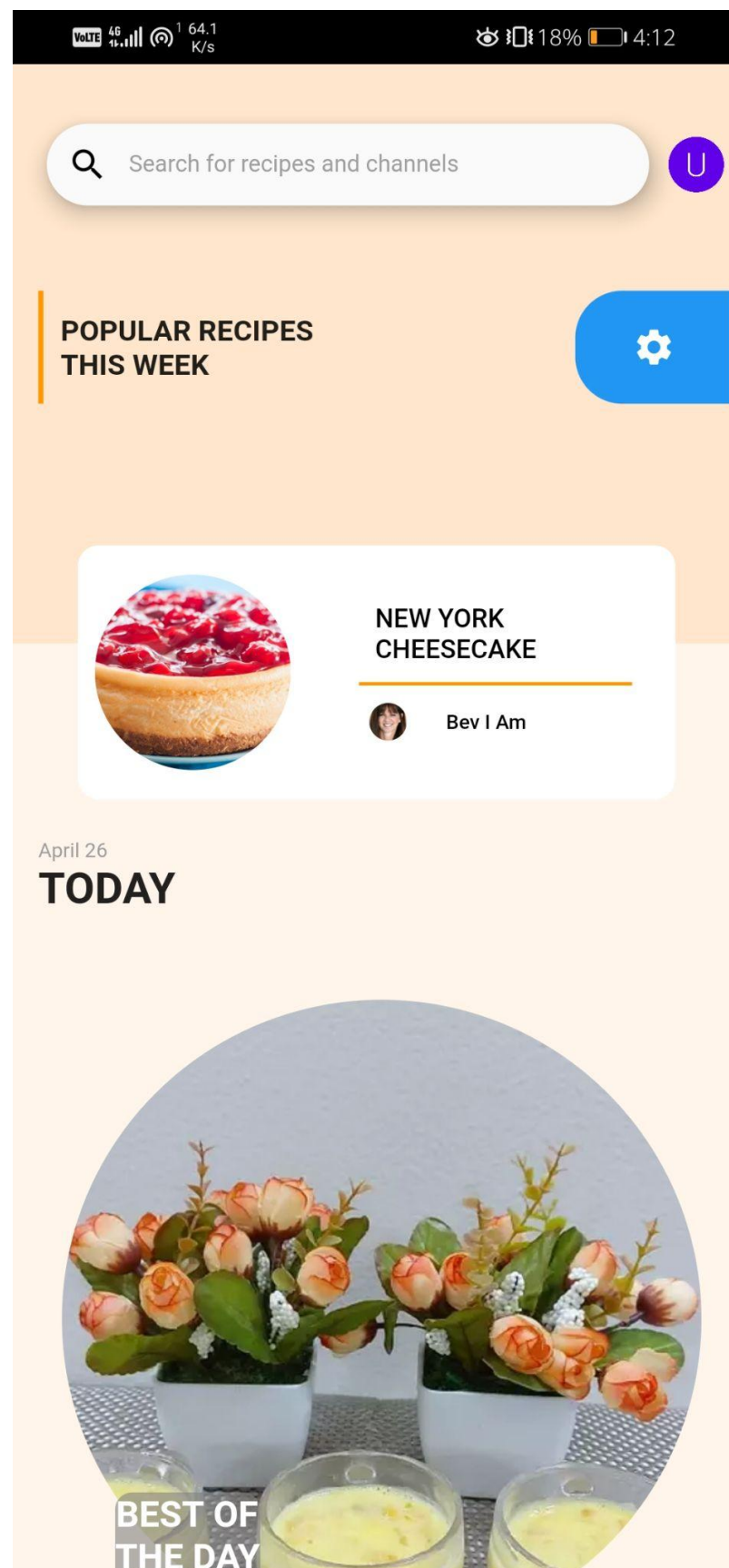
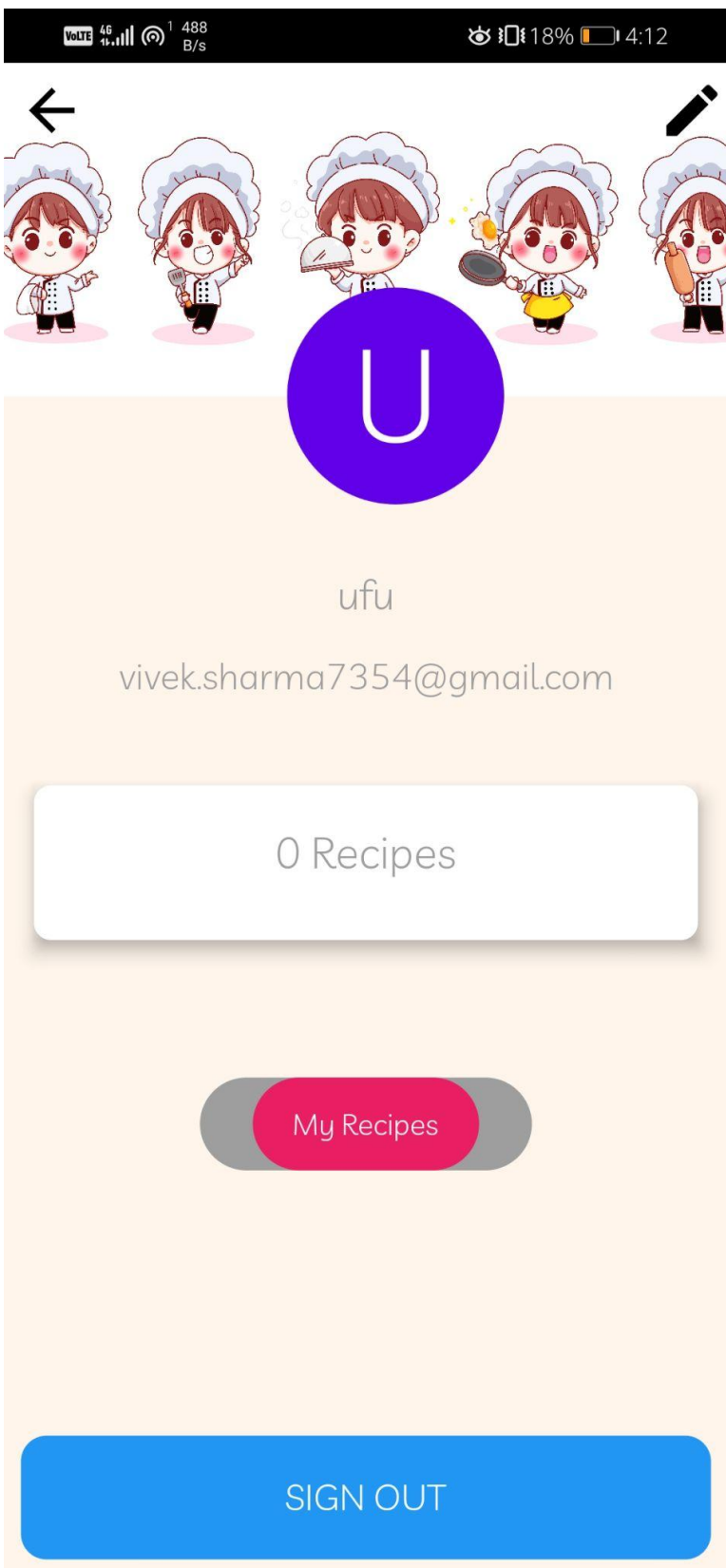
```
1 public > Forms.html > head > script
2
3 <!DOCTYPE html>
4
5 <head>
6   <title>
7     form
8   </title>
9   <script src="https://www.gstatic.com/firebasejs/8.4.2/firebase-app.js"></script>
10  <script src="https://www.gstatic.com/firebasejs/8.4.2/firebase-auth.js"></script>
11  <script src="https://www.gstatic.com/firebasejs/8.4.2/firebase-firestore.js"></script>
12  <link rel="stylesheet" href="https://fonts.googleapis.com/css?family=Sofia">
13  <link rel="apple-touch-icon" sizes="57x57" href="Favicon/apple-icon-57x57.png">
14  <link rel="apple-touch-icon" sizes="60x60" href="Favicon/apple-icon-60x60.png">
15  <link rel="apple-touch-icon" sizes="72x72" href="Favicon/apple-icon-72x72.png">
16  <link rel="apple-touch-icon" sizes="76x76" href="Favicon/apple-icon-76x76.png">
17  <link rel="apple-touch-icon" sizes="114x114" href="Favicon/apple-icon-114x114.png">
18  <link rel="apple-touch-icon" sizes="120x120" href="Favicon/apple-icon-120x120.png">
19  <link rel="apple-touch-icon" sizes="144x144" href="Favicon/apple-icon-144x144.png">
20  <link rel="apple-touch-icon" sizes="152x152" href="Favicon/apple-icon-152x152.png">
21  <link rel="apple-touch-icon" sizes="180x180" href="Favicon/apple-icon-180x180.png">
22  <link rel="icon" type="image/png" sizes="192x192" href="Favicon/android-icon-192x192.png">
23  <link rel="icon" type="image/png" sizes="32x32" href="Favicon/favicon-32x32.png">
24  <link rel="icon" type="image/png" sizes="96x96" href="Favicon/favicon-96x96.png">
25  <link rel="icon" type="image/png" sizes="16x16" href="Favicon/favicon-16x16.png">
26  <link rel="manifest" href="/manifest.json">
27
28 <style>
29
30   html {
31     background-color: #999;
32     background-image: url(../images/icr7.jpg);
33   }
34   body,p,h1,h2,h3{
35     font-family: 'sofia';
36   }
37   body {
38     margin: 50px;
39     padding: 50px;
40
```

```
1 public > config.js > ...
2
3 var firebaseConfig = {
4   apiKey: "AIzaSyAHg86poueFwvXpZ_0smJ5903fVngdw",
5   authDomain: "cookit-a48d6.firebaseio.com",
6   projectId: "cookit-a48d6",
7   storageBucket: "cookit-a48d6.appspot.com",
8   messagingSenderId: "61061654133",
9   appId: "1:61061654133:web:8a276531e5225d697fa3c"
10 };
11
12 // Initialize Firebase
13 firebase.initializeApp(firebaseConfig);
```



# Live App









Name

ufu

E-mail

fuf@dud.com

Phone

8255976136

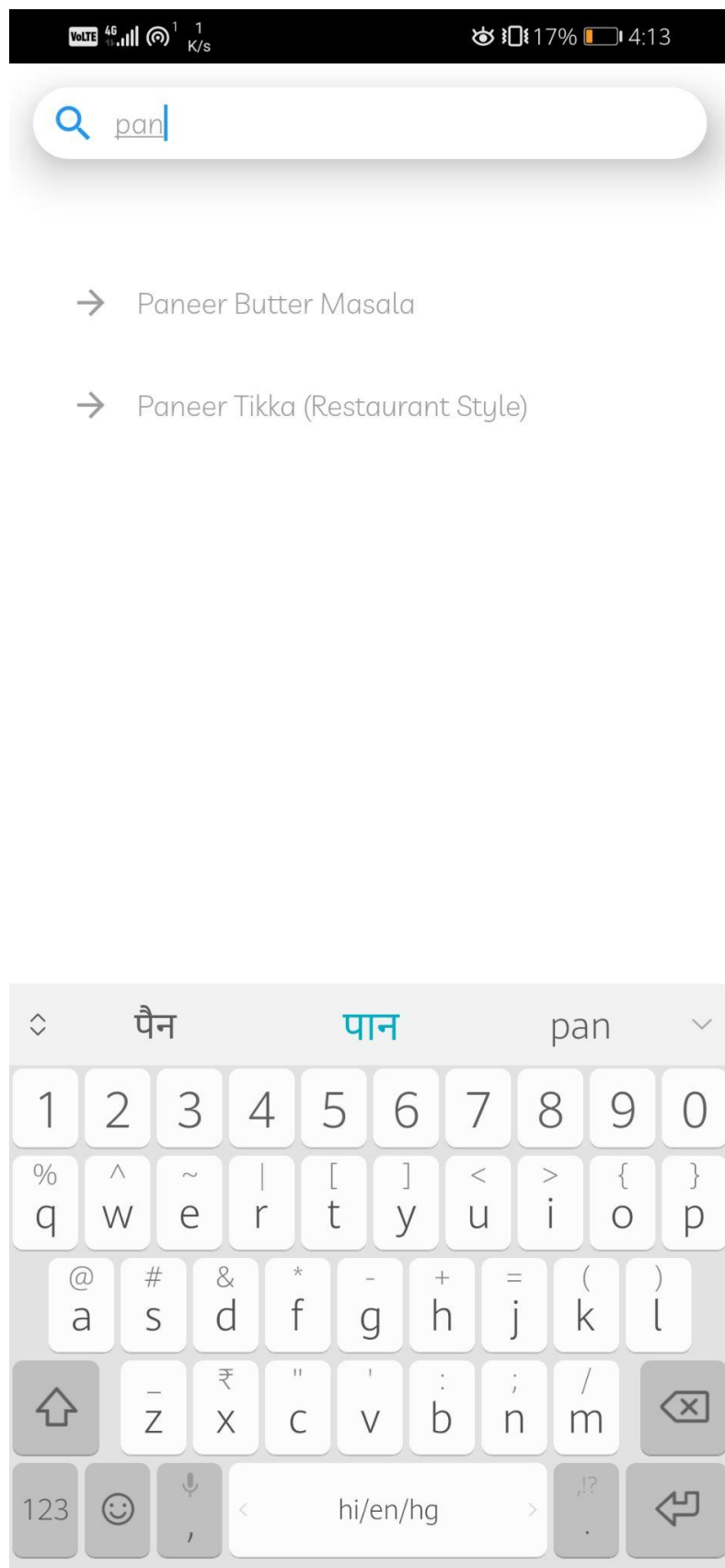
Gender

Male

Age

25

Save



## 7. References

- 1.) [www.freepik.com](http://www.freepik.com)
- 2.) [www.dribbble.com](http://www.dribbble.com)
- 3.) [www.stackoverflow.com](http://www.stackoverflow.com)
- 4.) [www.flutter.dev](http://www.flutter.dev)