Cooking Recipes View-Share App and Website(CookiT)

A mini project Report submitted partial fulfillment of the requirements for the Award of the degree of

Bachelor of Technology

In

Computer science and Engineering

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Declaration

I/we hereby declare that the work which is being presented in the B.Tech. mini project **"Cooking Recipes View And Share App and Website(CookiT)"**, in partial fulfillment of the requirements for the award of the ***Bachelor of Technology*** in Computer Science and Engineering and submitted to the Department of Computer Engineering and Applications of GLA University, Mathura, is an authentic record of my/our work carried under the supervision of **Mr. Anand Prakash Gupta** who is **Assistant Professor** in GLA University.

In full or in parts, the contents of this project report have not been submitted to any other Institute or University for the award of any degree.

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The attributes required being a successful professional.

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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.

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1. INTRODUCTION

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.

1.1Overview and 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.

1.2 Objective

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.

1.2.1 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.

1.2.2 Easy searching of recipes:

Apart from the one adding the recipes, the main focus will be on the viewers that are going to see those recipes. There are two types of viewers, one that has a pre-determined mindset about what they want to watch and the second one that is just targeting the random ones they look onto. We are here going to target both categories of users. Those who have already made up their mind to watch a certain recipe and for that, we are going to give them an option of easy searching on our web site. So that they can find that recipe within no time.
Also, for the second we group we will be dishing out random recipes as well, also an option to try out the best of the day on its popularity.

On our platform, the user will feel easy to search for the required or the available recipes. Instead of surfing over different websites, the user can search on a single website. This will also result in saving time and easy

video searching while in some cases can also lead to saving hard-earned money which is one of the major concerns in everyone's life and that can be solved through our platform.

1.2.3 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.

1.3 Summary of Similar Application:-

In today's technological world it is not easy to create or develop something which has not been founded yet or on which the work is not in progress. By keeping that in our mind we will try our best to create our project as much unique and different as possible.

There aren't a lot many good platforms that perform in similar ways as our platform is going to. But as mentioned above there is always a scope for us to do something new in every field. So, though the working might be a bit similar as other platforms yet again there is a big scope in terms of looks of your platform, the features or we can say the functionalities and a lot more things like that.

This particular project is going to work as a platform for its user where they can share, see, follow, like the uploaded recipe, and many more things. Apart from that, there will be a good focus on how the interaction of the user with the platform is going to be. More than the inner functionalities a customer or the user looks for the outer structure of a platform. That is the major factor behind the attraction of the customer towards your platform.

On coming back to our discussion of similar platforms that are related to our platform are like Mixthespice.com one of the biggest examples in this field, Cooking Duniya, and many more like that.

But the thing which comes to mind is that though there are similar platforms like this the craze or the competition is still not less, it motivates us to make one of our platforms that might also be a competitor along with the other such websites.

1.4 Organization of the project report:-

1. **)Introduction:-**

   The introduction is related to our project**.**

2. **)Platform Design:-**

   It includes requirement analysis, feasibility analysis on various parameters, module description, functionalities of each module & Use Case for various scenarios.

3. **)Implementation and User Interface:-**

   It includes all user interfaces, output screens, and descriptions.

4.) **Platform Testing:-**

   It contains generated test cases (two or three) for testing.

5.) **Conclusion:-**

   It includes the conclusion we want to submit.

6.) **References:-**

   The references are taken for the completion of the project.

2. PLATFORM DESIGN:-

In designing a platform such as this one log-in, there a lot of things that have to be taken into the consideration. The most important thing is to analyze what we are trying to develop or create. Because once the goal is clear the process becomes easy. And everything that we begin with a clear goal or aim becomes easy to understand and finish on time.

Other factors that should also be kept into our mind is a different kind of analysis such as feasibility analysis, technical analysis, economical analysis, scheduling analysis, long term analysis and such like that, that are important during the designing of the platform.

2.1 Requirement Analysis:-

In this section, we are going to look for or concentrate on the requirements factors that we are looking to fulfill after our project. These analyses are very important when one is looking to complete the project. This should be made straight away clear with the customer party that what they are exactly looking for.

2.2 Feasibility Analysis:-

Once you received all the requirements from the customer now it's time to look at whether the requirements are feasible in the real world and in

real-time or not. A lot of times it happens that the customers demand something that looks feasible at the time starting the development but in the end, it looks difficult to accomplish those requirements. Therefore it is good that beforehand you make a good judgment of requirements feasibility.

2.2.1 Technical Feasibility:-

One of the important feasibility among the others is technical feasibility.

The platform that is being demanded by the customer is related to the daily uses that contain the information of both the user as well as the content creator. Technically it is possible to design platforms like that because we are already using similar platforms in our life. So the technical implementation of this website is feasible.

2.2.2 Economical Feasibility:-

The other feasibility in that line is the economical feasibility which is also important. Economic expenses that are going to take place during the development of the website are under the range that has been decided by the customer and development team. The economic expenses are not much in the development of this kind of platform. So the development of this project is economically feasible.

2.2.3 Scheduling Feasibility:-

The next one is the scheduling feasibility that is related to the period that is decided between the developer team and customers. As it is important to finish the project on a given deadline. The timeline that is kept or given by the customer to the development team is also feasible in real-time. The duration for the timeline is enough to develop this website in a given time. So the development of this website is scheduling feasible.

2.2.4 Long term Feasibility:-

Last but not least is the long-term feasibility that also plays an important role among other feasibilities. This kind of platform once developed is long-term feasible. We just need to develop this kind of platform and give the updates as per the contract signed between the customer and the development team. They do not have any special needs as they are part of our daily needs.

2.3 Modules Description:-

- Only Viewing User's Side :

LOGIN/SIGN UP MODULE

SEARCH RECIPE

SEE RECIPE

- Content Adding User's Side :

LOGIN/SIGN UP MODULE

ADD / DELETE RECIPE

2.4 Functionalities of modules:-

Login/Signup Module:

The login module is made while keeping in mind that both types of users have to use this website so it contains the different login functionalities for both. This module contains information such as name, id, a password, and few more extra credentials for the users while also providing other authentication methods.

Searching Module:

The main objective behind creating the **Searching module** in the project was to enable the users to search the recipe that they have in mind and want to try it. It is an auto-complete, instant searching feature which allows suggestions in the searching as well.

Add / Delete Recipe Module:

Another module that is being created in this part is the recipe addition module where the users can add their recipes whenever he wants and share it with the world and do the opposite that deletes it whenever he wants to do the same. That is also important as this platform is mainly being designed just to the same.

Through our cooking recipes platform, we will avail the functionality of adding the recipes on our website and deleting those recipes. Both these options will be given on keeping in mind that it is a matter of

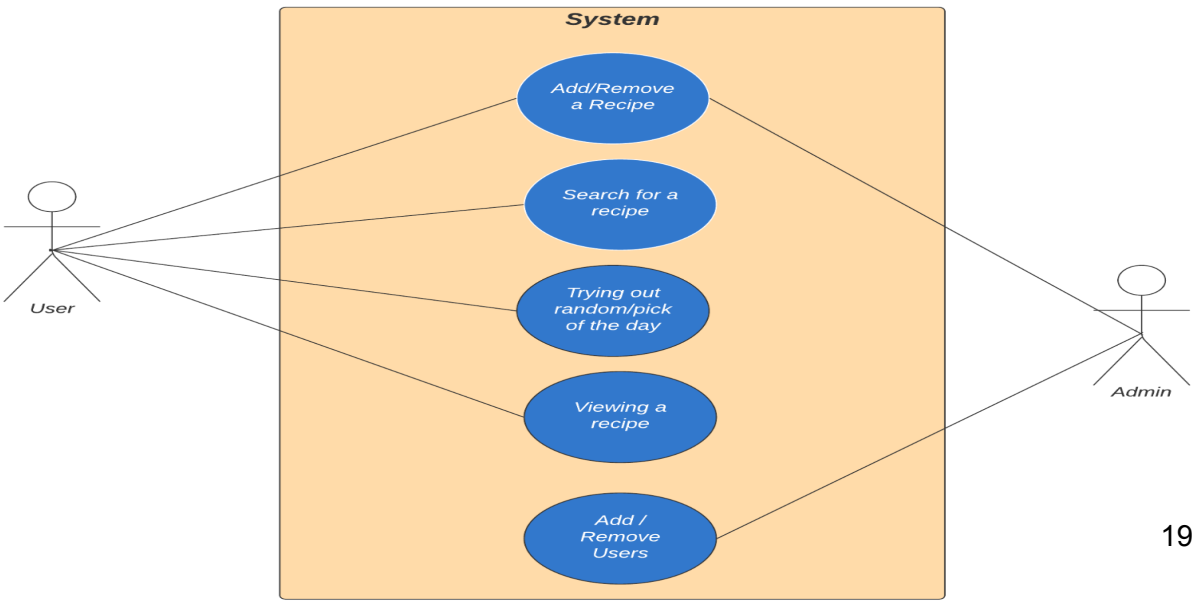
time when one realizes that the recipes need to be added or deleted. The one who will upload the recipes will only be the one to delete them.

2.5 Use Case in different scenarios:-

In this particular section, we are going to describe the functionalities of our platform or application using the use cases and DFD's. Following are the figures that represent the respective use case diagrams and DFDs.

2.5.1 Use Case Diagram:-

The use case diagram below is very easy and sufficient to understand the functionalities of our platform. The actor here is the representation of the viewer or the customer that is going to use our project. It has access to the shown functions of our platforms such as registration or log-in functions, searching of recipes, trying out random recipes, and logging out functionality.



2.5.2 Data Flow Diagram:-

Data Flow Diagrams allow you to log in to understand the flow or the functionalities that will be made available through the website or the application. More clear is the DFD better becomes the understanding of the website. There are different types of DFD in website engineering and with an increase in the level they use to define the website more clearly.

DFD Level 0:-

Level 0 DFD explains the functionality of our platform more clearly. By looking at the level 0 DFD we can easily tell that what are the features that we are going to get once our website or the application is completely developed.

In this DFD the viewer has the options to searching for recipes, trying out random recipes, that are going to be added by the users.

Level-0 DFD

3. IMPLEMENTATION AND USER INTERFACE:-

Implementation is a very important aspect of any platform that you built. It explains the exact way in which your application will work. This part gives you an understanding of how your application is working. Implementation is the basic content that should be added or present in any website report. It is an essential part of the platform.

The user interface is what one is going to see or interact with through your application when they are going to use it. The interface should be as simple as possible so that it can be easy to understand and use. UI is an important part of the website on which the interaction of the user depends upon.

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.

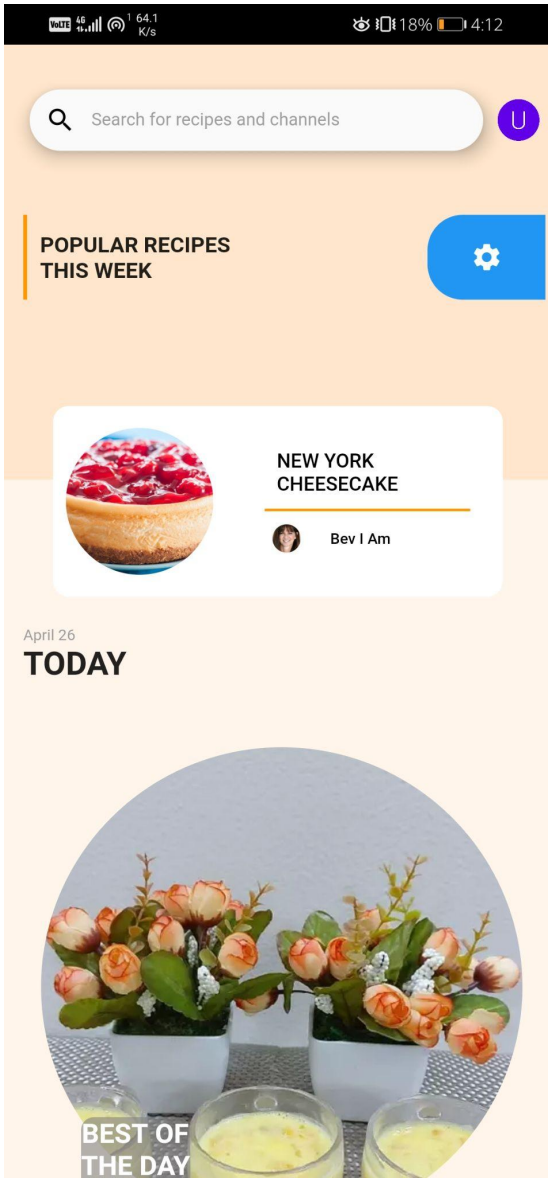
IMPLEMENTATION SCREENSHOTS

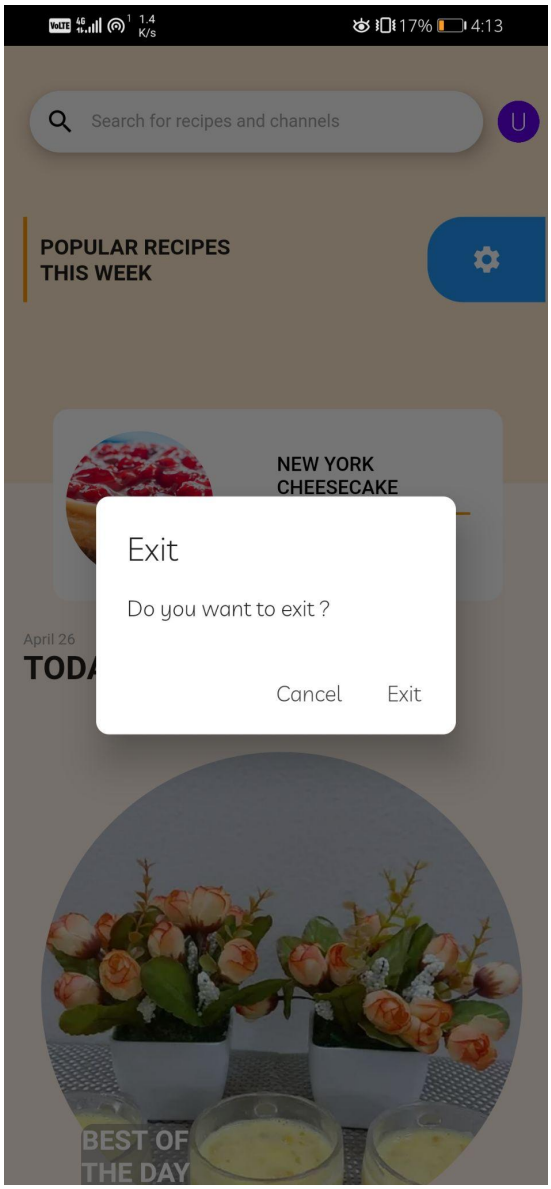
Screenshot 1-2

COOKIT

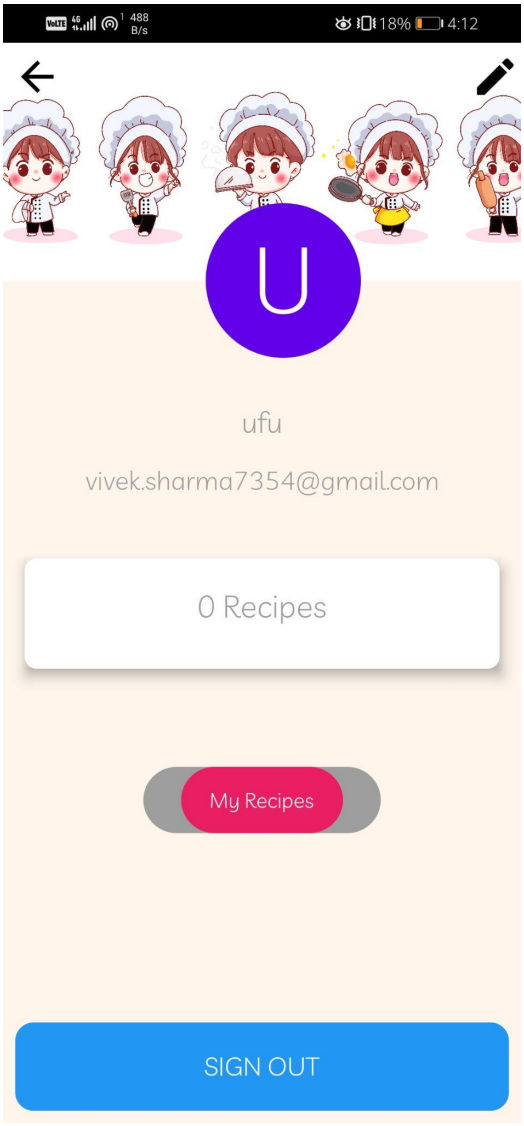
COOKIT

Screenshot 3-4

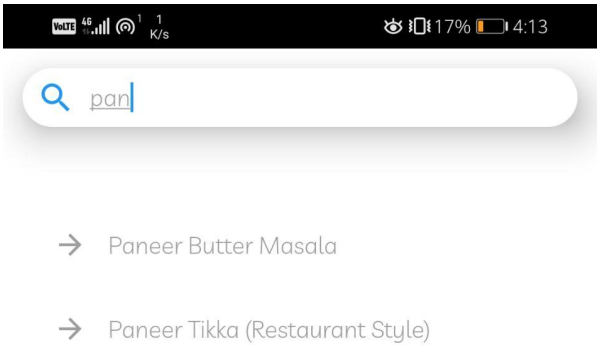


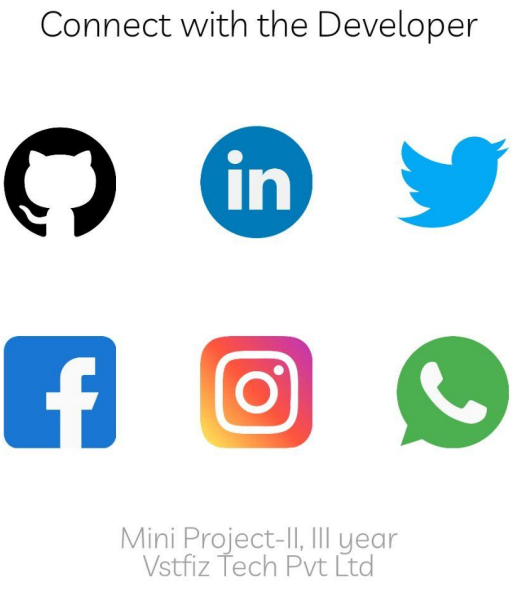


Screenshot 5-6

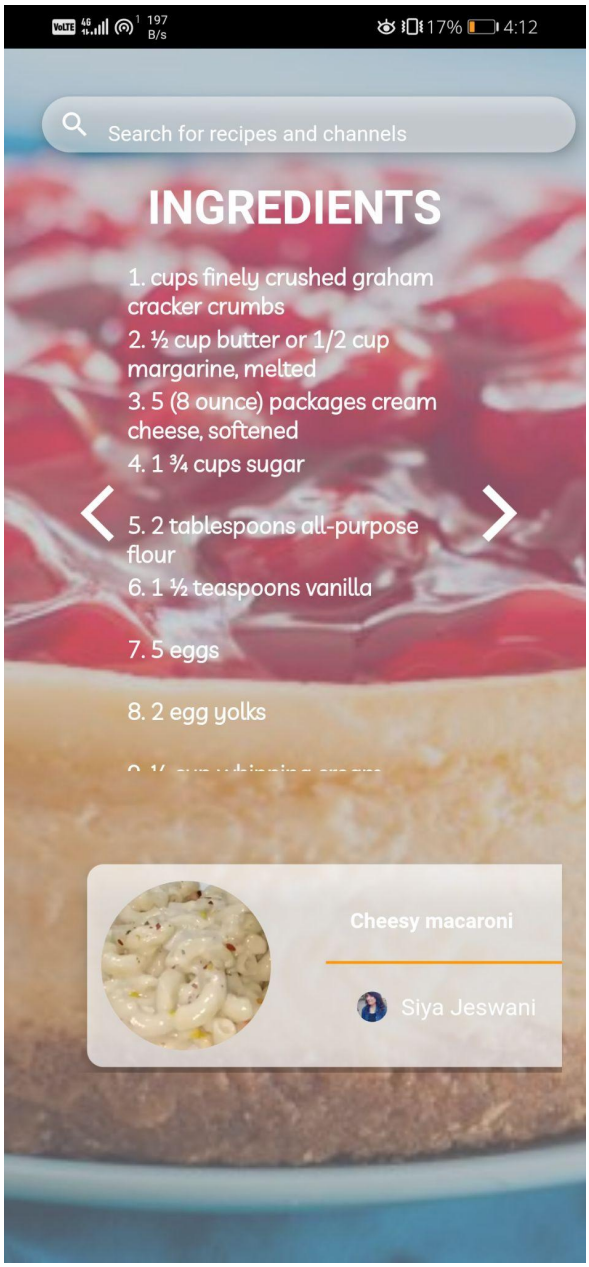


Screenshot 7-8



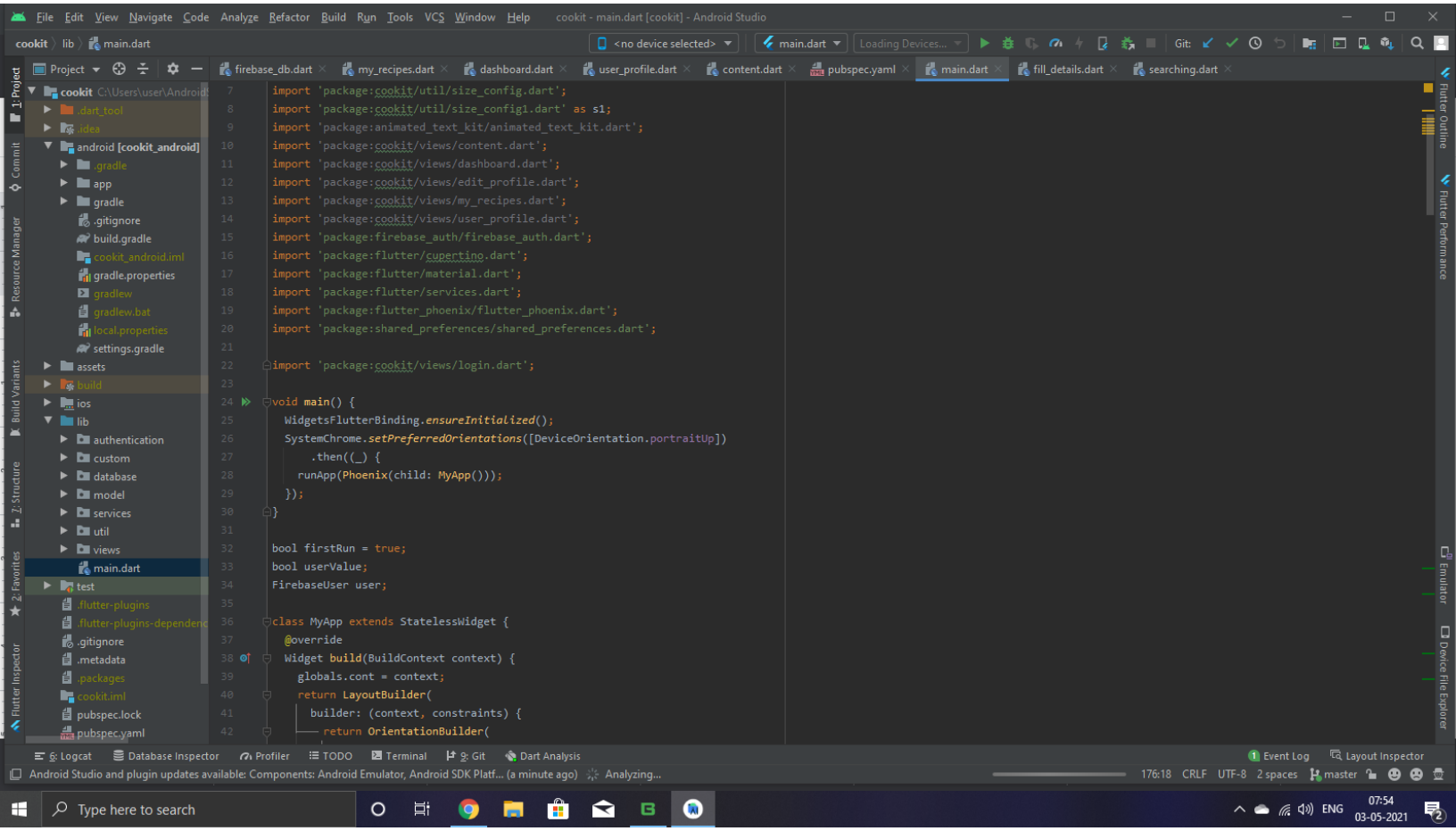


Screenshot 8-9



7

SCREENSHOT 10



4. Scope of the Project:-

There a lot of famous and widely being used platforms that are based on the same idea that we are working on and by looking at them we can say that this project can also be a big thing in the future. That's why we are keeping in our mind that this project can also be a part of the daily life of people in the future and have to work on it similarly. This project has some technologies that are good to try your hands on. The final platform that is ready to be used by the users is having a friendly environment where one can easily add the recipes, can delete them, the users can watch others, try out random ones and a lot more features are there over the website. This project is a part of daily activities that people do in their life which's why this project has great hope for the future.

5. CONCLUSION:-

In the conclusion, we can say that we learned a lot during our working period on this project. We got to know a lot of things that we didn't know before working on this project. This project has some technologies that are good to try your hands on. The final platform that is ready to be used by the users is having a friendly environment where one can easily add the recipes, can delete them, the viewer can see them, and in a future comment over the recipes, they can also follow the content creator and a lot more features are to be there over the platform. Overall the platform is best suitable to be used in daily lives and surely will be a good preferable one in future.

6. REFERENCES:-

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