IJCRT.ORG ISSN : 2320-2882

INTERNATIONAL JOURNAL OF CREATIVE RESEARCH THOUGHTS (IJCRT)

An International Open Access, Peer-reviewed, Refereed Journal

Android Food Detection using Image Classification App

Mandar Joshi. Professor

Zaid Bargir. Student

Kartik More. Student

Vinayak Patade. Student

Department of Information Technology,

Finolex academy of Management and Technology, Ratnagiri, Maharashtra, India

Abstract: Our generation relies mostly on phones to get through the day. Due to this, phones have become more of a personal assistant than a means to just communicate. Keeping this thing in mind we wanted to use the concept of a phone as a personal assistant for helping the users to cook like a master even when they don't know a thing about cooking. The system is an Android Application.An app that will detect the food and find out best recipes which can be made by that food , an app that will serves those with a craving for specific homely dishes and wants it prepared at their home. The app will include the list of verified home chefs who are experts in particular dishes. The app will be suitable for urban customers who are missing their homes. The app can integrate booking the chef, sharing location to the user, and providing a route map to the chef to locate the user's apartment.

Keywords – Food Detection, UI, Recipies, Chef Booking.

I. INTRODUCTION

Food is important for physical and mental well-being. It is more than just a primary factor for survival for some, for others,it is a major factor which can change a grumpy mood into frivolous one. After a long day of work, or a hectic schedule people want to come home eat food and relax. Surely takeouts are easy and delicious but home- cooked meal has its own flavor and satisfaction. To find a proper source of learning to cook for a beginner is difficult. That's why we have come up with the idea of cooking recipe app which provides users with step-by-step recipes to make the task of preparing a meal less hectic.It will also help a person who is in a new country and does not know about the food, he can detect the food and get the recipes that can be made by the food which is detected.

II. LITERATURE REVIEW

After going through many research paper and apps on the google play store we found that there is no application which detects food. 2.There are some apps which lists recipes only but it does not have interaction between the chefs. 3.Some app just shows the nutrition value within the food but not the recipes or how to make it step by step. 4.There is app called chef buddy which manages food business ,track orders and sell food on chat

III. SYSTEM DESIGN

III.I BLOCK DIAGRAM

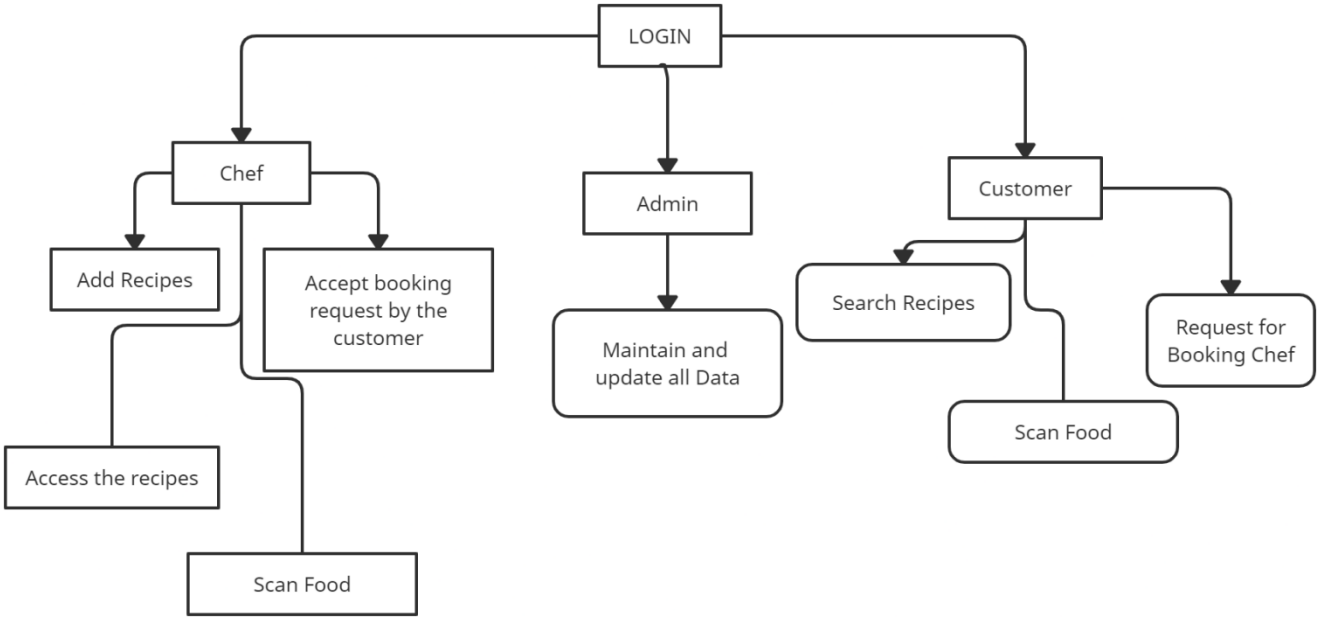


Figure.1.Block Diagram

III.II *FLOWCHART*

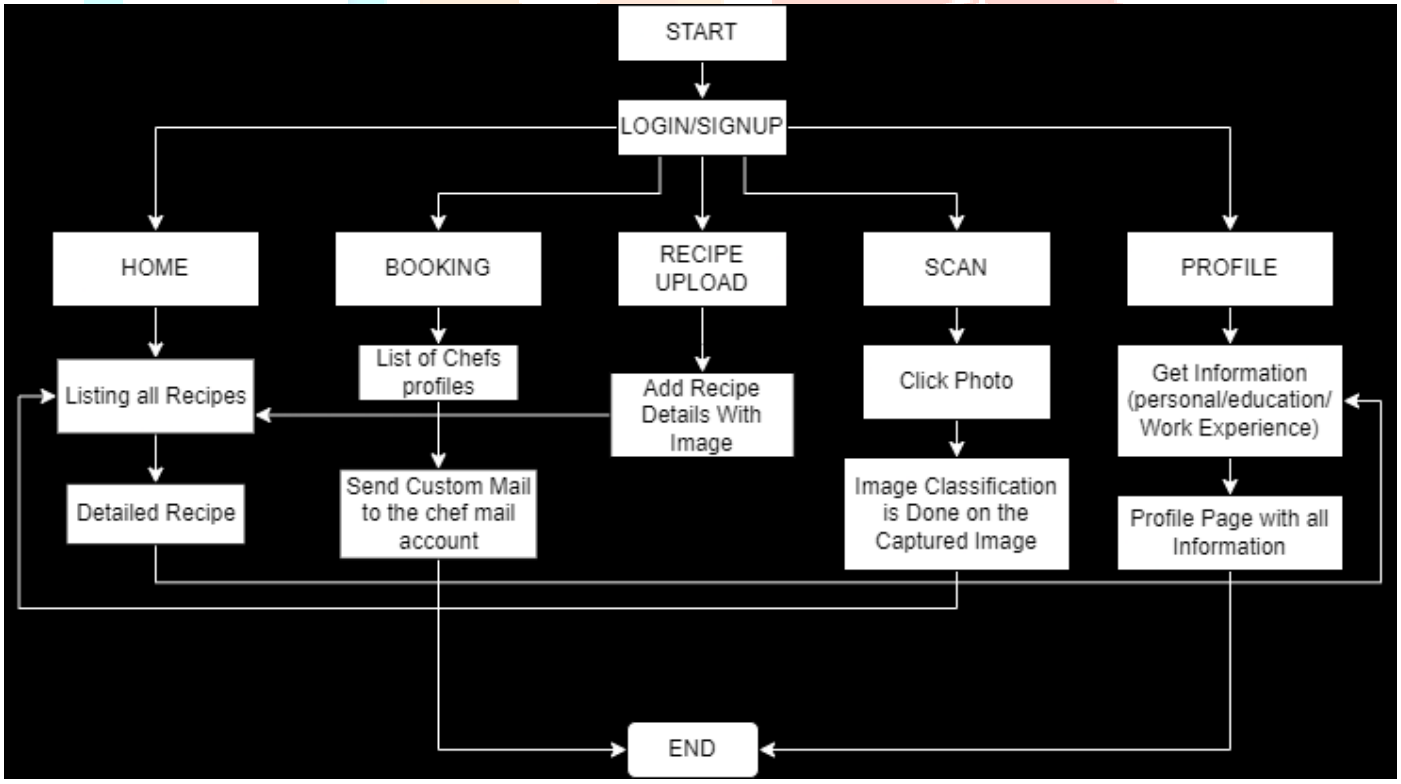


Figure.2. Flow Diagram for working of Food Detection app

III.III CONCEPT OF THE SYSTEM

System provides User friendly interface and beautiful Ui/Ux experience. Our System will consists of two parts: Normal user and Chef/people(who want to show there cooking skills).
Normal User can look for the recipes and they can also scan the food and get the best recipes listed and can also book an chef. Other User(Chef/Customer) who wants to show there cooking skills they can post there recipes and videos and those who have experienced can start an free lacing carrier.

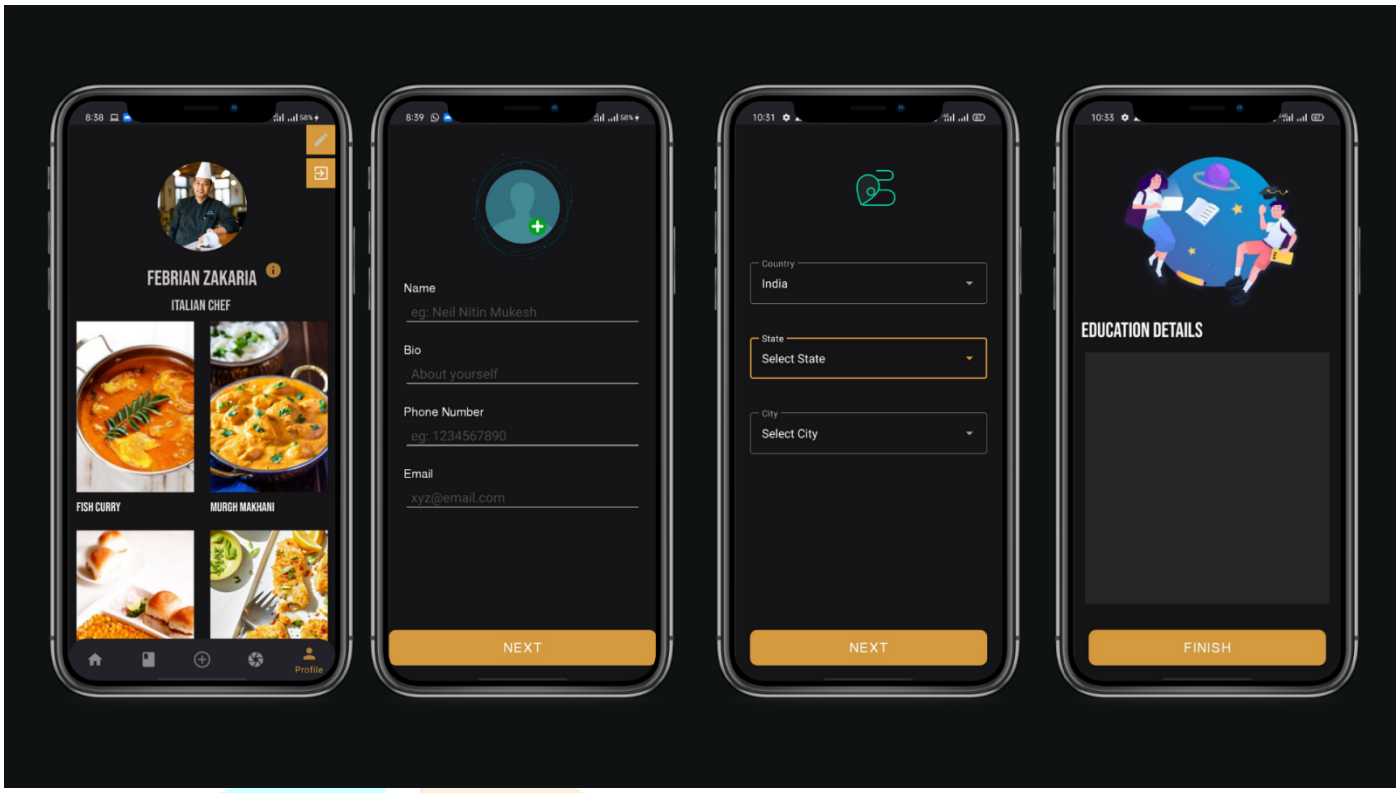
Software Requirement

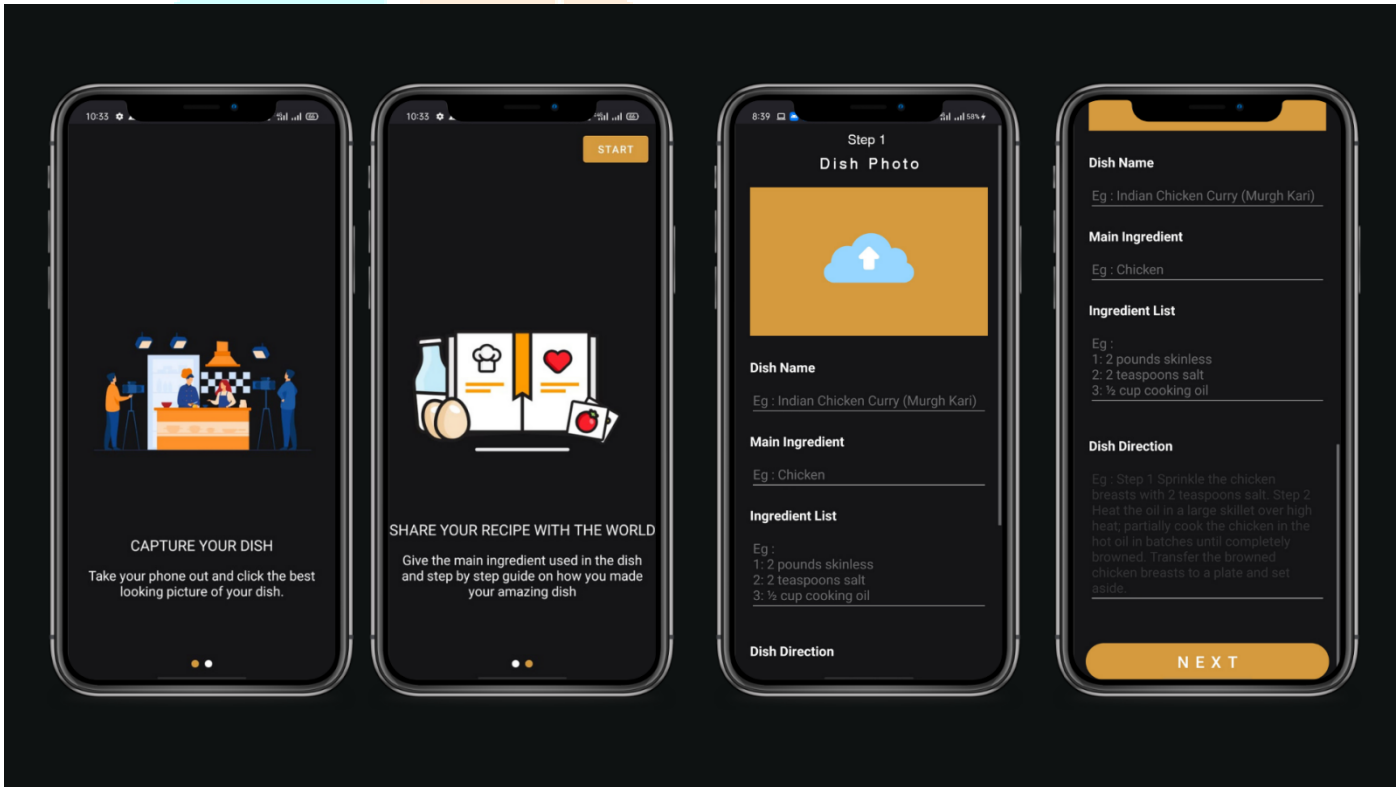
I. Android SDK
II. Kotlin SDK
III. Database-Firebase Database
IV. Software-Android Studio 4.1.2

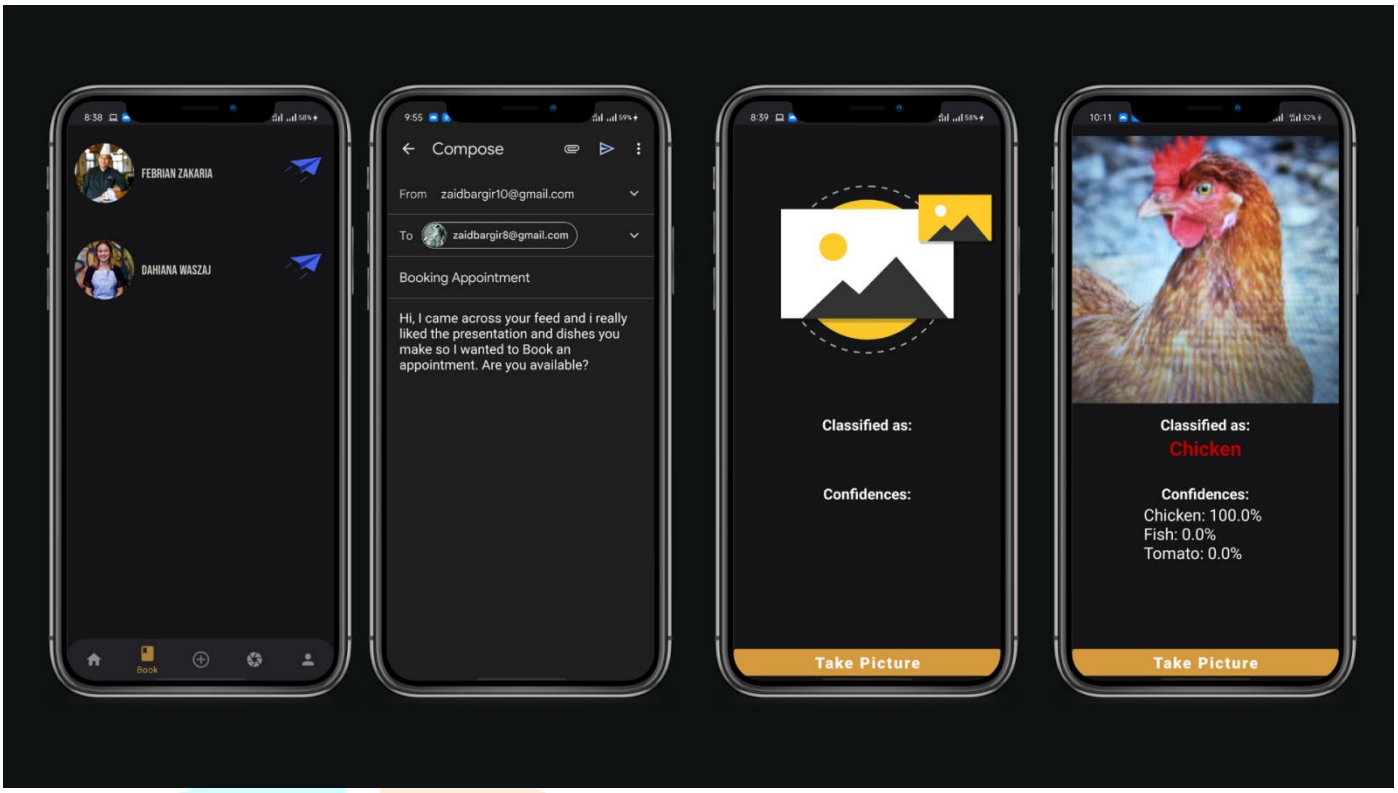
IV. IMPLEMENTATION

V. I. INTERFACE DESIGN FOR CHEF:

The system provides a user-friendly interface and a beautiful UI/UX experience. Our system will consist of two parts: Normal Users and Chef(who want to show their cooking skills). Normal Users can look for the recipes and they can also book a chef. Other Users(chefs)who want to show their cooking skills can post their recipes and those who have experience can start a freelancing carrier.


FEBRIAN ZAKARIA
ITALIAN CHEF
FISH CURRY
MURGH MAKHANI
Profile
Name
eg: Neil Nitin Mukesh
Bio
About yourself
Phone Number
eg: 1234567890
Email
xyz@email.com
NEXT
Country
India
State
Select State
City
Select City
NEXT
EDUCATION DETAILS
FINISH


CAPTURE YOUR DISH
Take your phone out and click the best looking picture of your dish.
START
SHARE YOUR RECIPE WITH THE WORLD
Give the main ingredient used in the dish and step by step guide on how you made your amazing dish
Step 1
Dish Photo
Dish Name
Eg : Indian Chicken Curry (Murgh Kari)
Main Ingredient
Eg : Chicken
Ingredient List
Eg :
1: 2 pounds skinless
2: 2 teaspoons salt
3: ½ cup cooking oil
Dish Direction
Dish Name
Eg : Indian Chicken Curry (Murgh Kari)
Main Ingredient
Eg : Chicken
Ingredient List
Eg :
1: 2 pounds skinless
2: 2 teaspoons salt
3: ½ cup cooking oil
Dish Direction
Eg : Step 1 Sprinkle the chicken breasts with 2 teaspoons salt. Step 2 Heat the oil in a large skillet over high heat; partially cook the chicken in the hot oil in batches until completely browned. Transfer the browned chicken breasts to a plate and set aside.
NEXT



VI. CONCLUSIONS

We have developed this Personal Chef application which is having a user-friendly interface and is going to open new opportunities for those who are passionate about cooking. The main purpose of this application is to help the person who goes to an international country for higher education or work and misses his country food or is struggling to understand the country food which he is living in. As we get the feedback from the user side further improvements will be incorporated within the application to, make it more user-friendly.

REFERENCES

1.Firebase. Firebase Products. Retrieved May 4, 2018 from https://firebase.google.com/products/.

2.Android Developers. Android Studio Features | Android Developers. Retrieved May 5,2018 from https://developer.android.com/studio/features/.

3.N. Lageman, M. Lindsey, and W. Glodek, “Detecting malicious Android applications from runtime behavior,” Proc. - IEEE Mil. Commun. Conf. MILCOM, vol. 2015–Decem, pp. 324–329, 2015.

4.TATLI, Ipek,”Food Recommendation System Project Report.”, (2009).

5.International Journal of Computer Applications (0975–8887) Volume 118–No. 9, May 2015

6.“Foodie: An Android Application Rahul Dandekar, Sanket Gadkari, Mayuri Sadudia, Department of Information Technology Padmabhushan Vasantdada Patil Pratishthan’s College of Engineering, Mumbai”