

ADVANCED SOFTWARE ENGINEERING – CS 5551

PROJECT INCREMENT 3

FOOD CART – FOOD ORDERING APPLICATION

TEAM – 15

**BHAVYA TEJA GURIJALA
SAI MOHITH REDDY CHAGAMREDDY
ARUN KUMAR REDDY
VAMSHI RAJARIKAM**

I. INTRODUCTION:

Food Cart – Food Ordering System is an Android Application where a user can register or use the authentication and login with his account into the application and can search for a food item with two input ways. Speech to text conversion and the direct typing method are used to take the input to the application. Once the user searches for an item a list of the nearby online stores where the item is available will be displayed and the user can choose any of those stores and can add those items to the cart and place the order.

II. PROJECT GOAL & OBJECTIVES:

OBJECTIVE:

The main objective of our project is to ensure the correct delivery of the orders through visual confirmation. Since we are implementing the whole idea of the project as an android application, it helps the user to access the services very easily. The main motto is to increases the speed of service, sales volume and earn the customer satisfaction. It also eliminates the use of paper and increase the level of efficiency.

SYSTEM FEATURES:

The major functionalities of the system which we are developing are:

- a) Login & Register of user.
- b) Speech to Text API for taking input.
- c) Four Square Search API for searching the nearby places.
- d) Adding items to the cart.
- e) Placing the order.

REST API SERVICES:

For the Increment 1 of our project we have used two Services:

1. Firebase Database Service
2. Speech to Text API

1. FIREBASE DATABASE SERVICE:

The main intention of using the Firebase database service is to store the user information. User enters the Username, Email Address, Mobile Number, Address and the Password. The whole information is stored in the Firebase database and are retrieved when the user logs in to the application.

2. SPEECH TO TEXT API:

Speech to Text API is used to convert the speech to text which helps the user to give the input to the system. The input can be the food item which the user is looking for. That item is then searched to the nearby places by using the Four Square API.

DEPLOYMENT:

The Increment 3 of the project is uploaded to the GitHub. The entire progress of the second increment can be found in the link that is attached below.

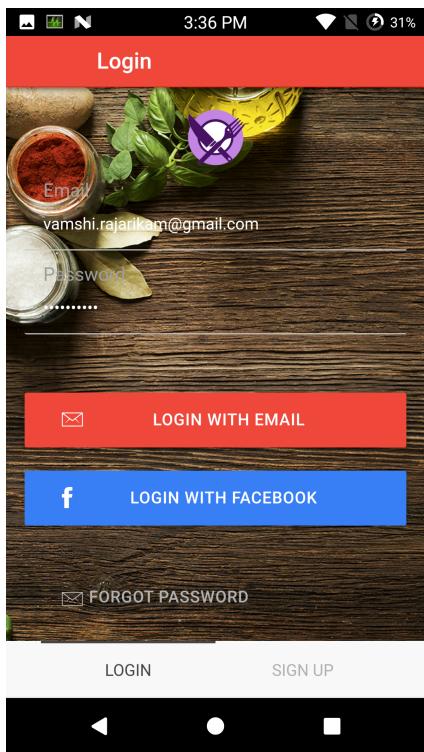
https://github.com/BhavyaTeja/ASE_Project

The Wiki Page link is attached below.

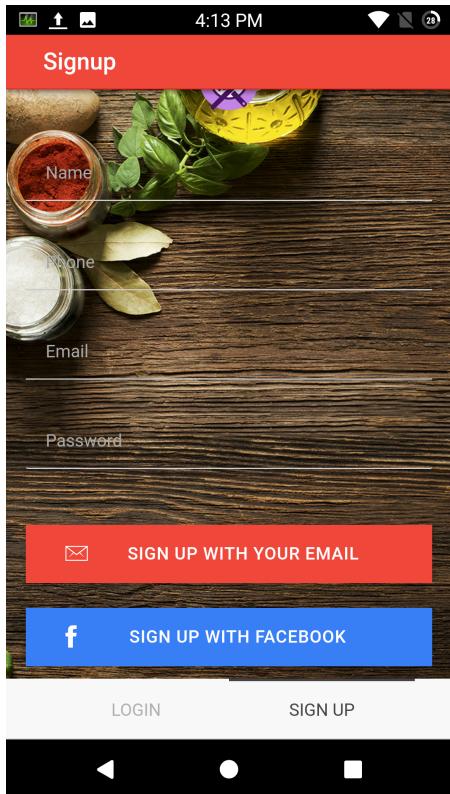
https://github.com/BhavyaTeja/ASE_Project/wiki/ASE-Project---At-a-Glance

3. Screenshots

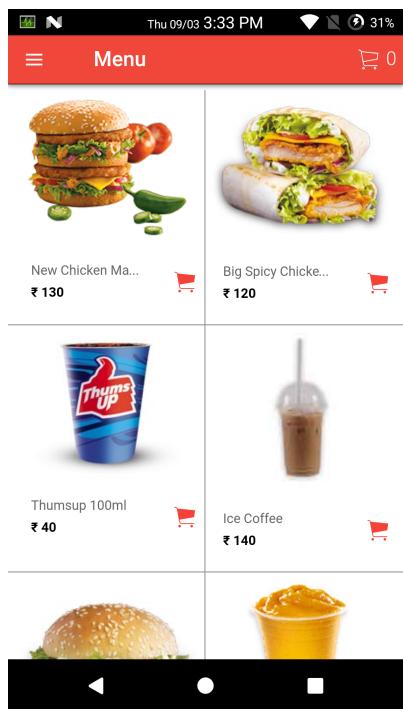
Login page consists of email and password attributes need to enter to access the app. A forgot password option (non-functional). Provided Facebook authentication to login using the Facebook login details. Provided a tab for signup.



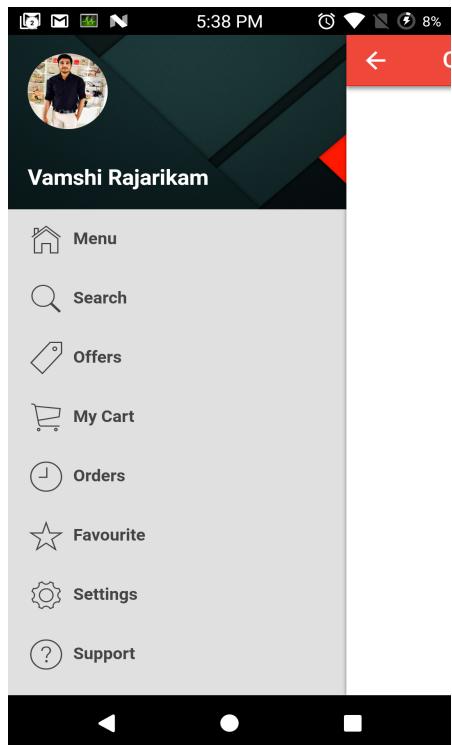
Signup page consists Name, Phone, Email, Password attributes needed to enter to create the account(signup). All the details entered are stored in the firebase database.

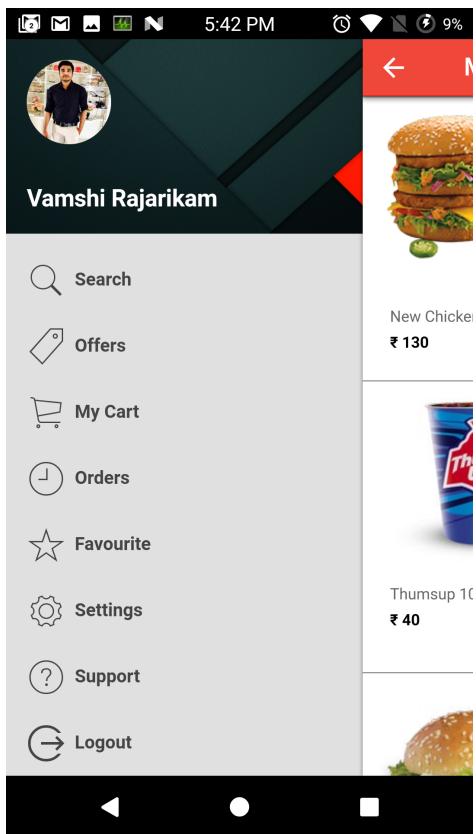


After login, the first page is menu: few sample food items pictures with a price.

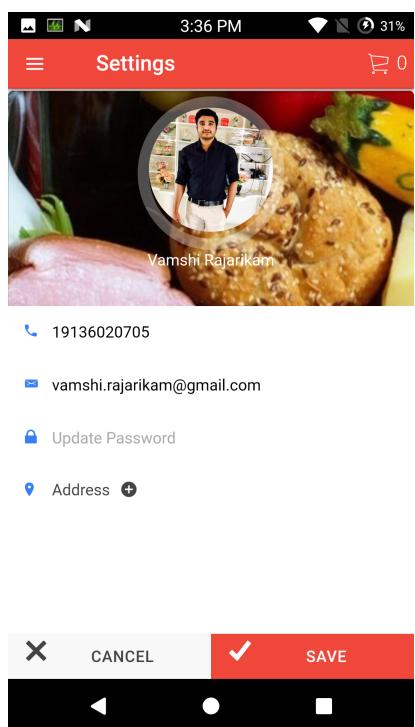


Side menu: On top user picture is displayed with the user name. All the tabs for the app are included here. Menu, offers, My Cart, Orders, Favorites, Settings, Support, Logout. Most of the pages are empty. But they are used in our final project.

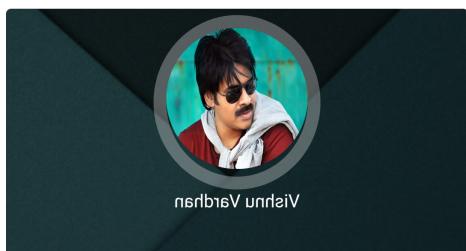




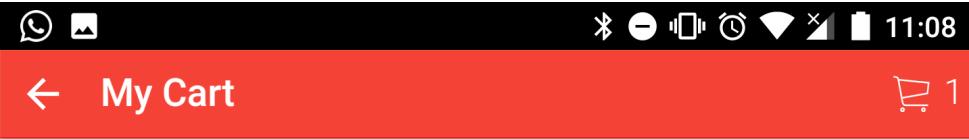
Setting tab: The user profile details are displayed here. They can update their profile here (not fully-functional)



Support tab: Where support team for the app is included.



The Cart Functionality where the user can add the items to the cart and then proceed to the checkout.



Total (1) = ₹ 130

CHECK OUT

New Chicken Maharaja



1 x ₹ 130 = ₹ 130



1





📍 Address +

📍 sai
29fnnonq
Pin : 64110
Phone : 9831712022

📍 sai
jcwlqilnoeq
Pin : 318912
Phone : 2939721392

₹ Mode of Pay

Credit Card

Net Banking

COD

PAY





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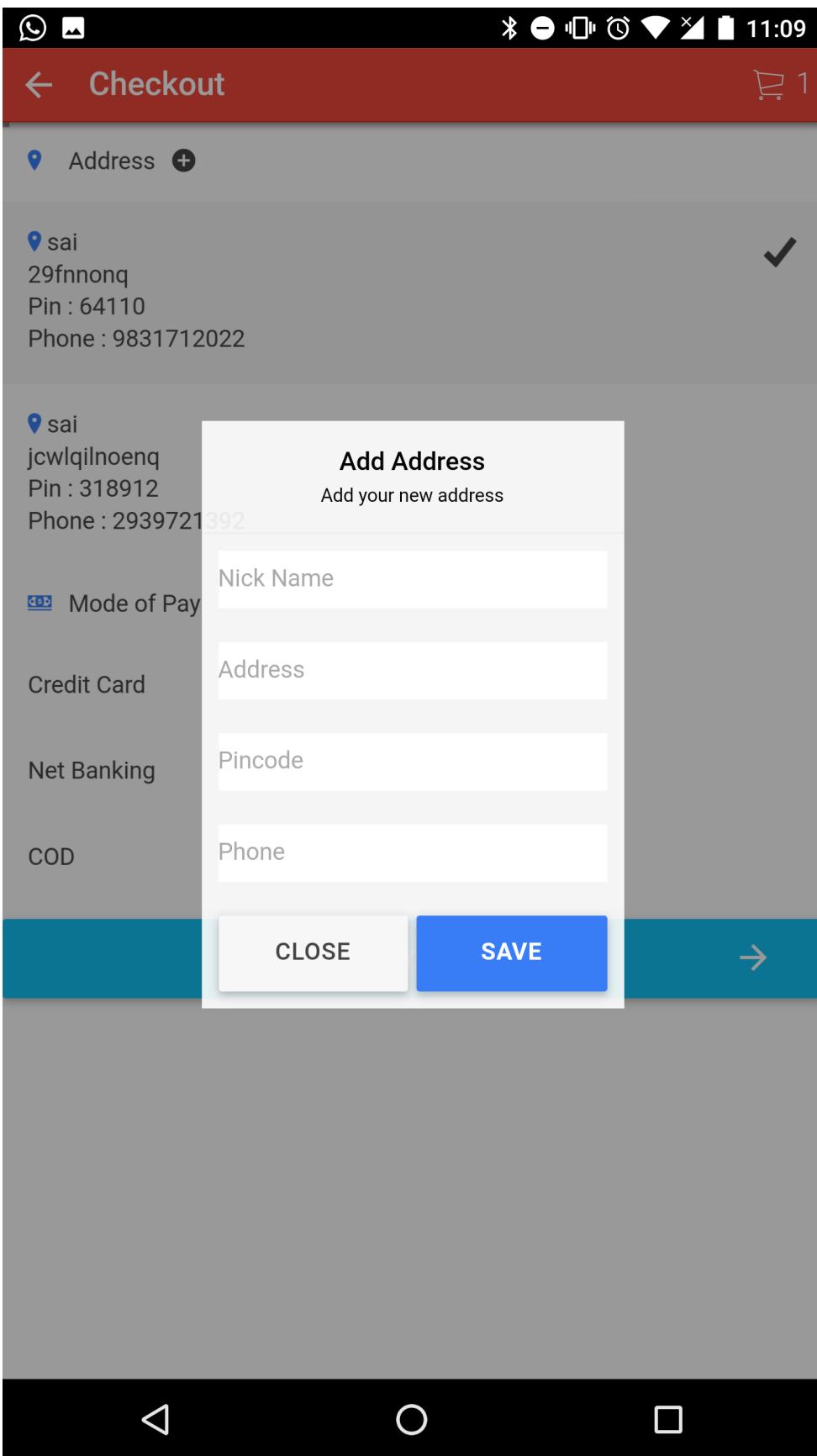
Credit Card

Net Banking

COD

PAY





The screenshot shows a mobile application interface for a checkout process. At the top, there is a black status bar with various icons (signal strength, battery level, etc.) and the time '11:09'. Below it is a red header bar with a back arrow icon, the word 'Checkout' in white, and a shopping cart icon with the number '1'.

Under the header, there is a section labeled 'Address' with a location pin icon and a plus sign icon. It displays two address entries:

- sai
29fnnonq
Pin : 64110
Phone : 9831712022
- sai
jcwlqlnoenq
Pin : 318912
Phone : 2939721392

Each address entry has a checkmark icon to its right.

Below the addresses is a section labeled 'Mode of Pay' with a credit card icon. It lists three payment methods, each with a checkmark icon to its right:

- Credit Card
- Net Banking
- COD

At the bottom of the screen is a large blue button with the word 'PAY' in white capital letters. To the right of the word is a white arrow pointing to the right.

At the very bottom of the image is a black navigation bar with three white icons: a triangle pointing left, a circle, and a square.

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- sai
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Pin : 318912
Phone : 2939721392

Both entries have a checkmark icon to their right.

Below the addresses is a section labeled 'Mode of Pay' with a credit card icon. It lists two payment methods:

- Net Banking
- COD

The 'Net Banking' option has a checkmark icon to its right. Both items are contained within a light gray rectangular box.

At the bottom of the screen is a large blue button with the word 'PAY' in white capital letters and a white arrow pointing to the right on the right side.

At the very bottom of the image is a black navigation bar with three white icons: a triangle pointing left, a circle, and a square.

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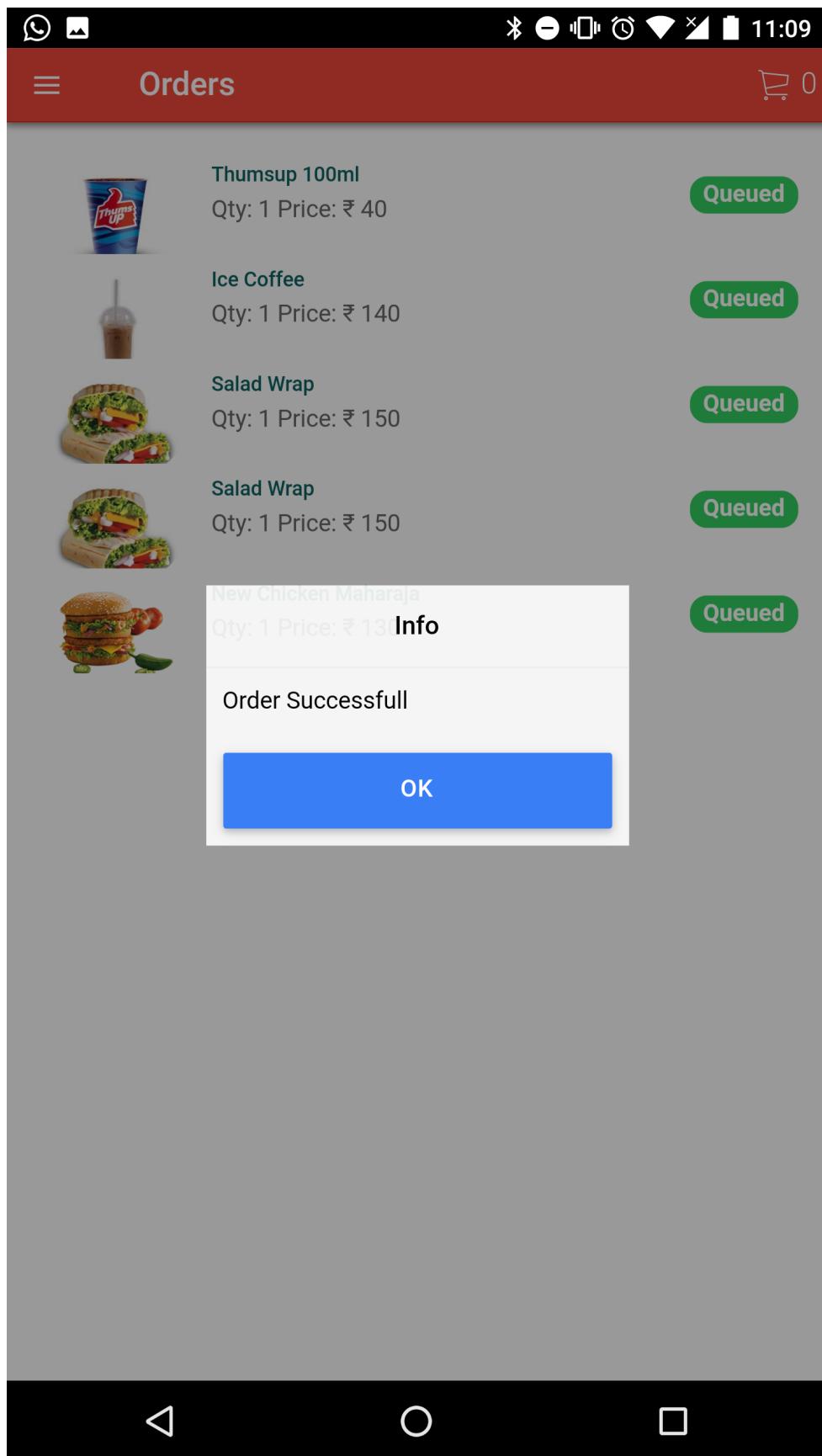
Below the addresses, there is a section titled "Mode of Pay" with two options:

- Credit Card
- Net Banking

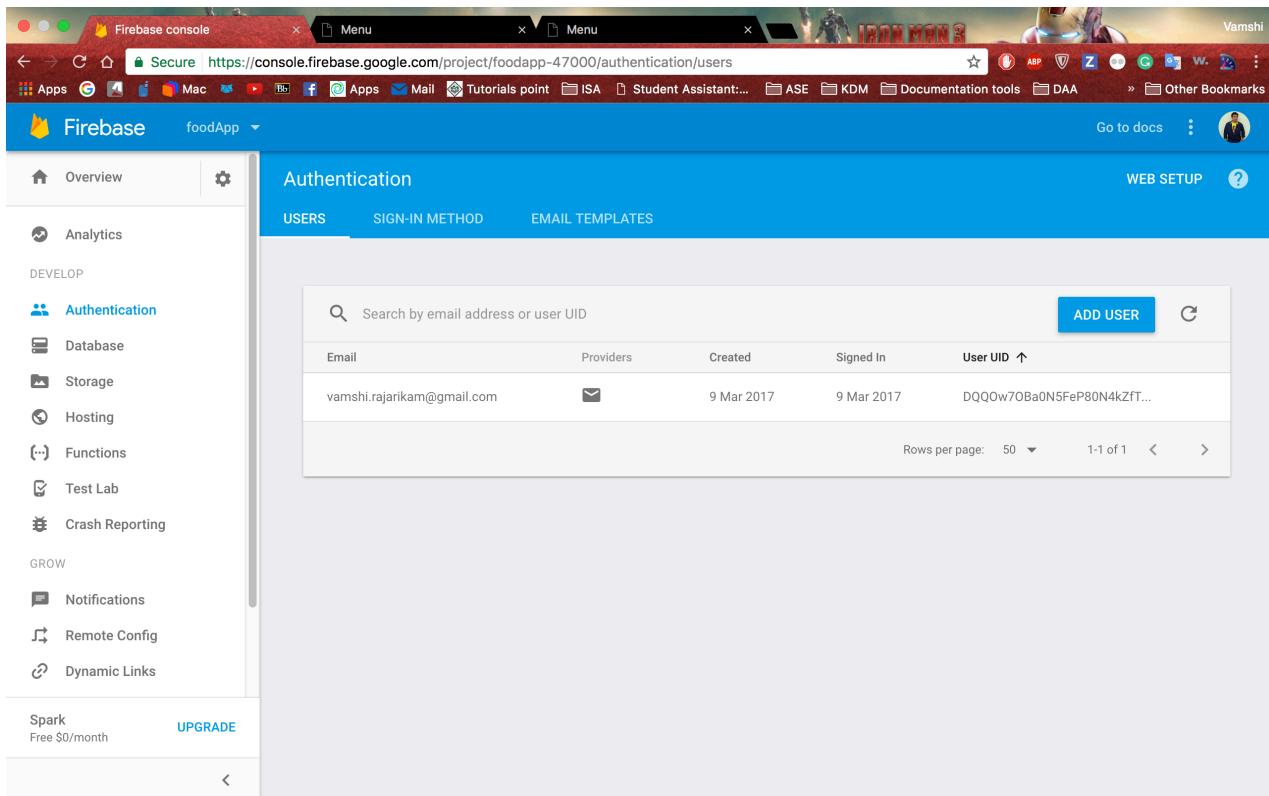
Under the Net Banking section, there is a list item "COD" with a checked mark next to it.

A large blue button at the bottom is labeled "PAY" and has a right-pointing arrow to its right.

At the very bottom of the screen, there is a black navigation bar with three white icons: a triangle pointing left, a circle, and a square.



Firebase database where the details of the user are stored and retrieved when needed. Fully functional.

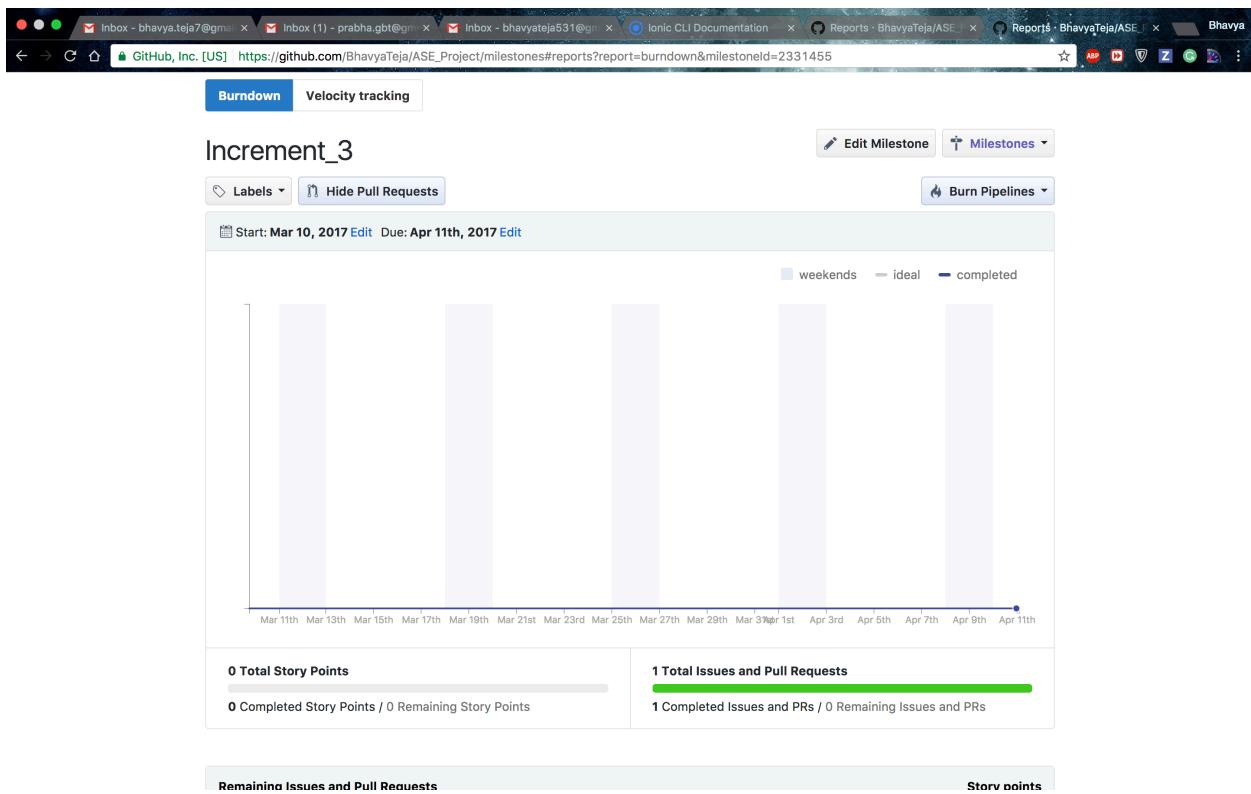


The screenshot shows the Firebase Authentication console for a project named "foodApp". The left sidebar lists various services: Analytics, Database, Storage, Hosting, Functions, Test Lab, Crash Reporting, Notifications, Remote Config, and Dynamic Links. A "Spark Free \$0/month" plan is shown at the bottom. The main panel displays the "Authentication" section with tabs for USERS, SIGN-IN METHOD, and EMAIL TEMPLATES. The USERS tab shows a table with one row of data:

Email	Providers	Created	Signed In	User UID
vamshi.rajarikam@gmail.com	✉	9 Mar 2017	9 Mar 2017	DQQQw70Ba0N5FeP80N4kZfT...

There are "ADD USER" and "C" buttons at the top right of the table. Below the table, pagination controls show "Rows per page: 50" and "1-1 of 1".

The Burndown chart for the project increment III:



PROJECT MANAGEMENT:

The Third Increment of our project is to complete the following tasks.

- Facebook Authentication for Login
- Re-designing the User Interface
- Cart Functionality
- Exclusive offers tab

We have implemented them in this increment of the project.

CONTRIBUTION:

- Bhavya Teja Gurijala – Facebook Authentication for Login
- Sai Mohith Reddy Chagamreddy – Connecting to Firebase & Retrieving the credentials.
- Vamshi Rajarikam – Speech to text input handling
- Arun Kumar Reddy – Re-designing the user interface.

Equal individual contribution – 25% each

It took us almost 12 – 14 hours for every person to get the best output. Every member of the project contributed solely for the project. We have discussed at every stage and proceeded further. Since we have used Agile Process it would be easy for us to divide the tasks among ourselves and integrate them at the end.

V . BIBLIOGRAPHY

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<https://developer.android.com/reference/android/speech/package-summary.html>

<http://www.androidhive.info/2012/01/android-login-and-registration-with-php-mysql-and-sqlite/>

<https://firebase.google.com/docs/android/setup>