A
Project Report
On
"Extol - Recommendation Android App"

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CHARUSAT
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CERTIFICATE

This is to certify that the report entitled "**Extol - Recommendation Android App**" is a bonafide work carried out by **Mr. Hardik Chavda (18DCS013),Ms. Mansi Nakrani (18DCS053) and Darshan Nagda (D19DCS162)** under the guidance and supervision of **Prof. Mohammed Husain Bohara** for the subject **CS343 Summer Internship-I** of 5th Semester of Bachelor of Technology in **Department of Computer Science & Engineering, DEPSTAR** at Faculty of Technology & Engineering – CHARUSAT, Gujarat.

To the best of my knowledge and belief, this work embodies the work of candidate himself, has duly been completed, and fulfills the requirement of the ordinance relating to the B.Tech. Degree of the University and is up to the standard in respect of content, presentation and language for being referred to the examiner.

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ABSTRACT

Now-a-days recommender systems are used in our day to day life. Yet, they are far from perfection . In today's digital world where there is an endless variety of content to be consumed like apps ,books, videos, articles, movies, etc., finding the content of one's liking has become an irksome task. On the other hand digital content providers want to engage as many users on their service as possible for the maximum time. This is where recommender system comes into picture where the content providers recommend users the content according to the user's liking. In this paper we have proposed a app recommender system EXTOL - Recommendation app. The objective of EXTOL is to provide accurate apps recommendations to users.

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Chapter 1 : PROJECT DEFINITION

A recommendation system is a type of information filtering system which attempts to predict the preferences of a user, and make suggests based on these preferences. Recommendation systems help users find and select items (e.g., books, movies, restaurants) from the huge number available on the web or in other electronic . Given a large set of items and a description of the user's needs, they present to the user a small set of the items that are well suited to the description. Similarly, an app recommendation system provides a level of comfort and personalization that helps the user interact better with the system and find that cater to his needs. Providing this level of comfort to the user was our primary motivation in opting for app recommendation system as our Internship Project. The chief purpose of our system is to recommend apps to its users based on their needs and ratings that they provide. Personalized recommendation engines help millions of people narrow the universe of potential apps to fit their unique tastes.

Chapter 2 : DESCRIPTION

2.1 Project Summary

Our Recommendation system is an android app. A recommendation app is helps to user to find the best apps as per the category. The search result provides on the bases of searched keyword.

This app provides google sign , you can use this app after sign in through google account.

Chapter 3 : SOFTWARE & HARDWARE REQUIREMENTS

3.1 Software Requirements

3.1.1 Android Studio :

Android Studio is the official Integrated Development Environment (IDE) for Android app development, based on IntelliJ IDEA . On top of IntelliJ's powerful code editor and developer tools, Android Studio offers even more features that enhance your productivity when building Android apps, such as:

- A flexible Gradle-based build system
- A fast and feature-rich emulator
- A unified environment where you can develop for all Android devices
- Apply Changes to push code and resource changes to your running app without restarting your app
- Code templates and GitHub integration to help you build common app features and import sample code
- Extensive testing tools and frameworks
- Lint tools to catch performance, usability, version compatibility, and other problems
- C++ and NDK support
- Built-in support for Google Cloud Platform, making it easy to integrate Google Cloud Messaging and App Engine

Each project in Android Studio contains one or more modules with source code files and resource files.

Types of modules include:

- Android app modules
- Library modules
- Google App Engine modules

By default, Android Studio displays your project files in the Android project view.

Fig 3.1

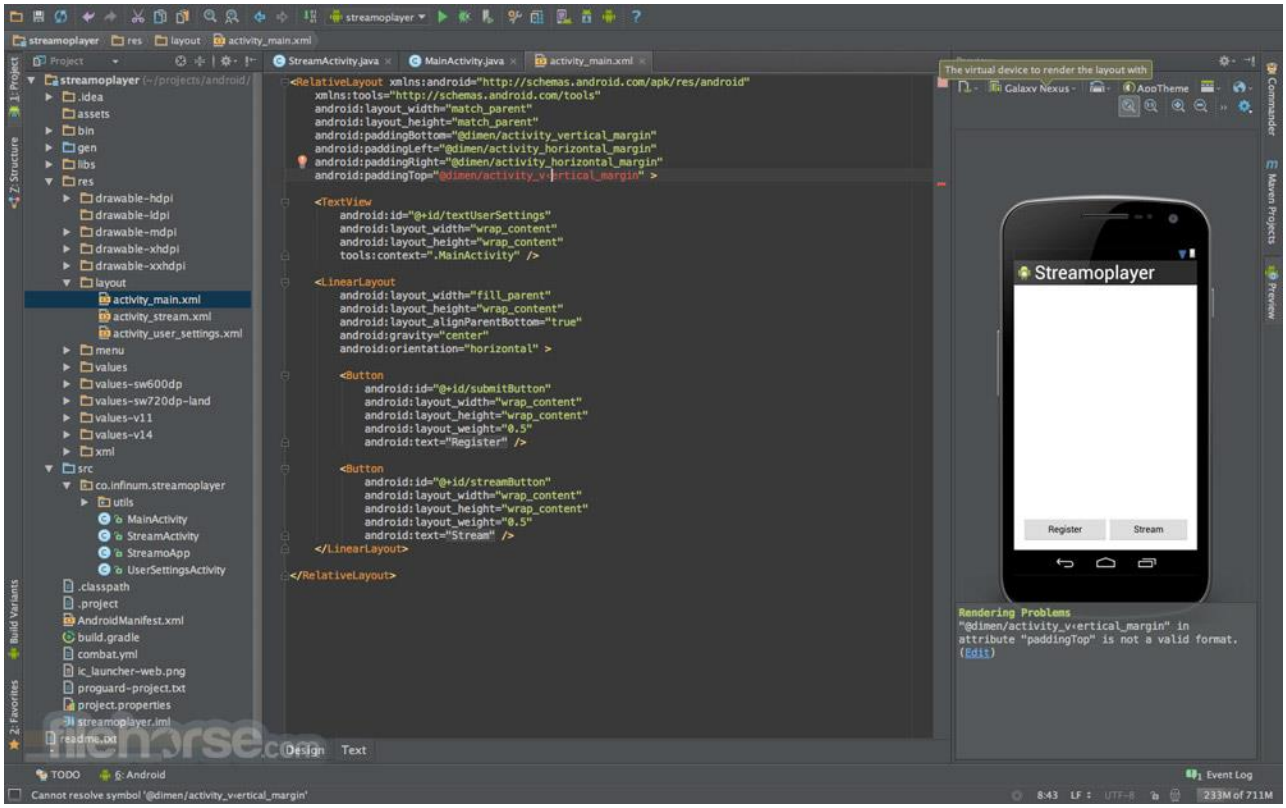


Fig 3.2

3.1.2 Adobe xd :

Adobe XD is a vector-based user experience design tool for web apps and mobile apps, developed and published by Adobe Inc. It is available for macOS and Windows, although there are versions for iOS and Android to help preview the result of work directly on mobile devices.

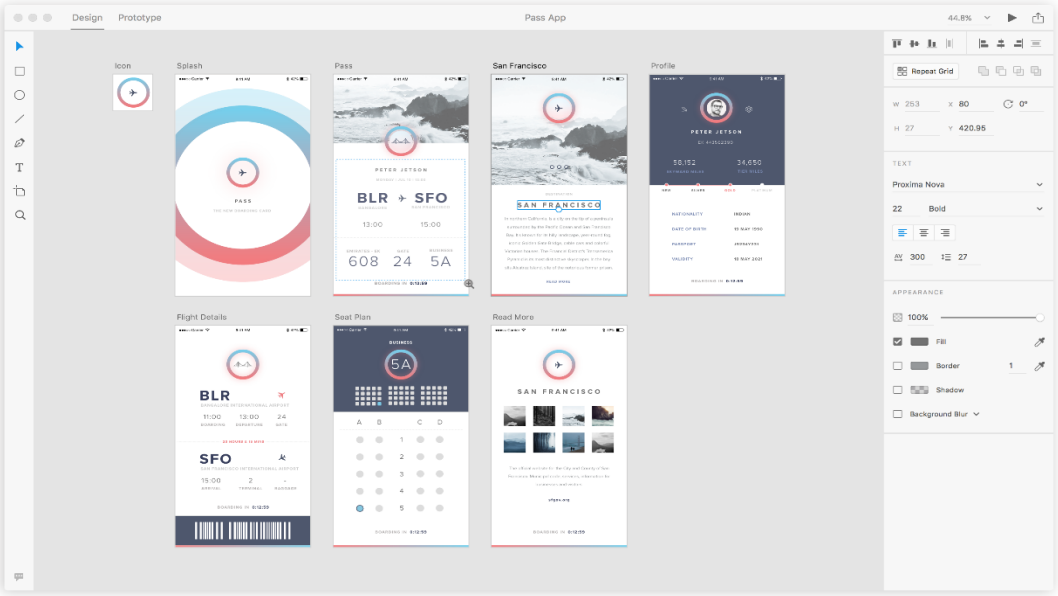


Fig 3.3

3.1.3 Flask

For create API to get the details about apps from play store we used flask with python.

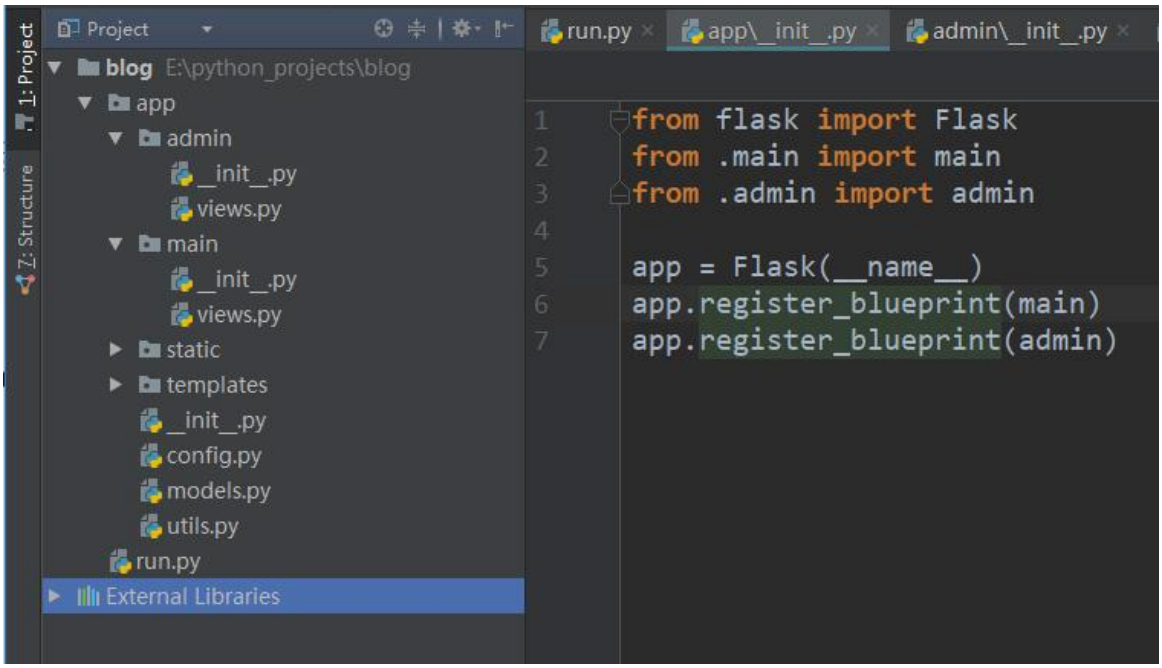


Fig 3.4

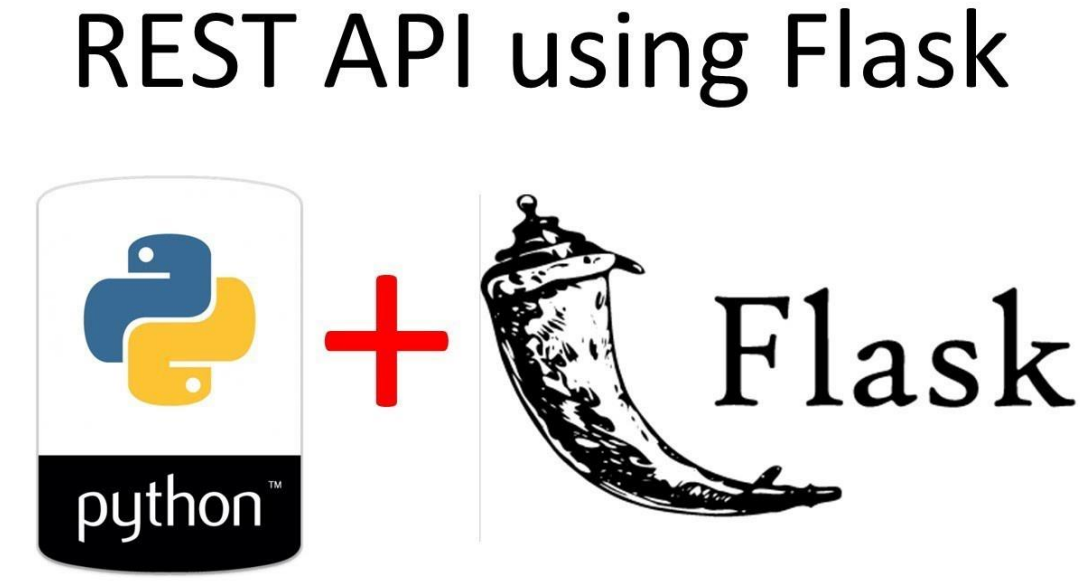


Fig 3.5

3.2 Hardware Requirements

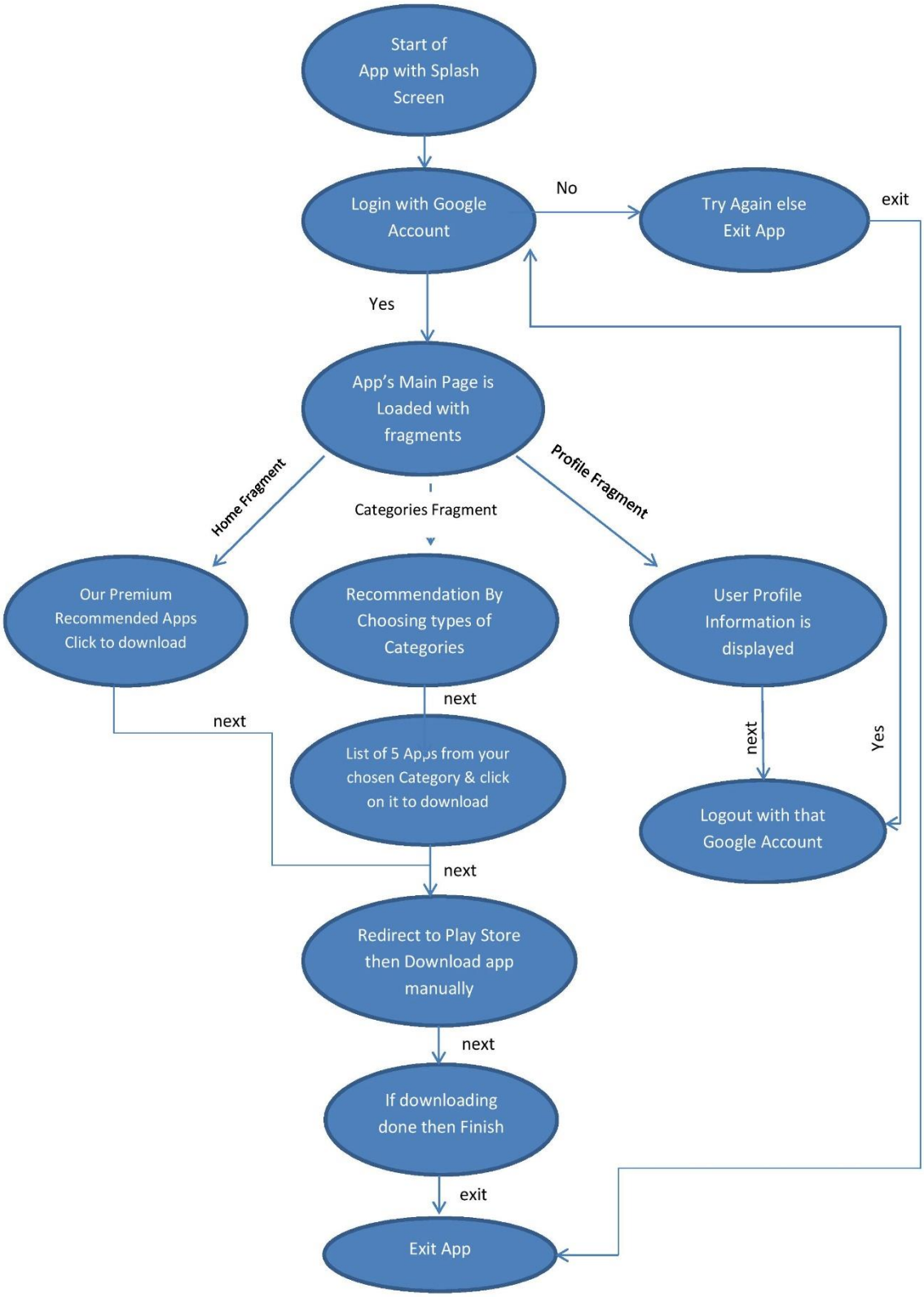
3.1.1 Android Smartphone :

Minimum version required for run this application successful is version 4.0.1

Chapter 4 : MAJOR FUNCTIONALITY

This android app recommend apps best in there category.

Chapter 5 : FLOW CHART



Chapter 6 : SCREENSHOTS OF PROJECT OUTPUT

Fig 6.1

Splash Screen

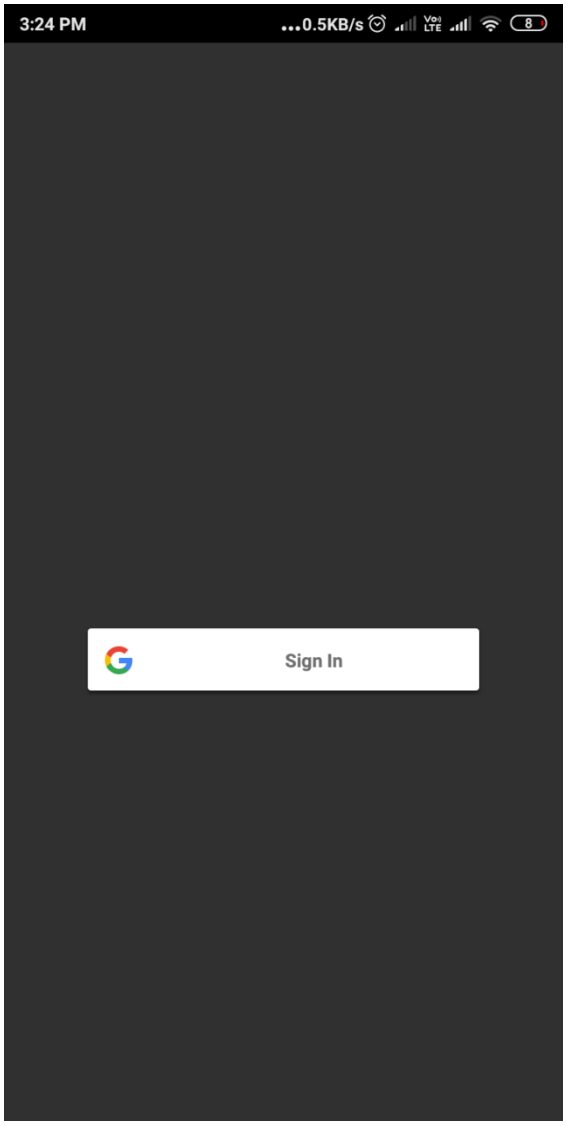


Fig 6.2

Log in Page

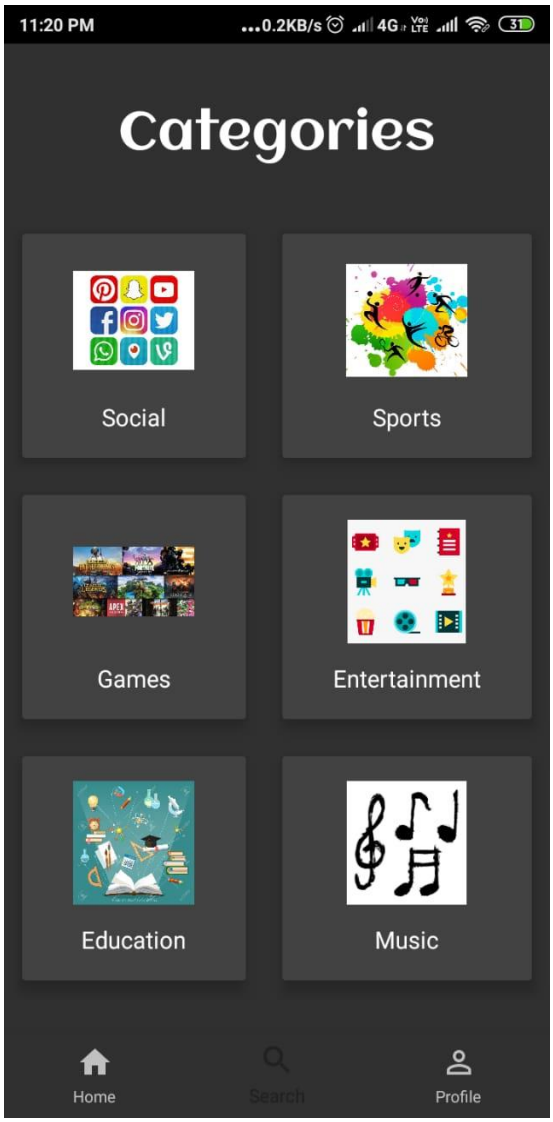


Fig 6.3

Search Screen

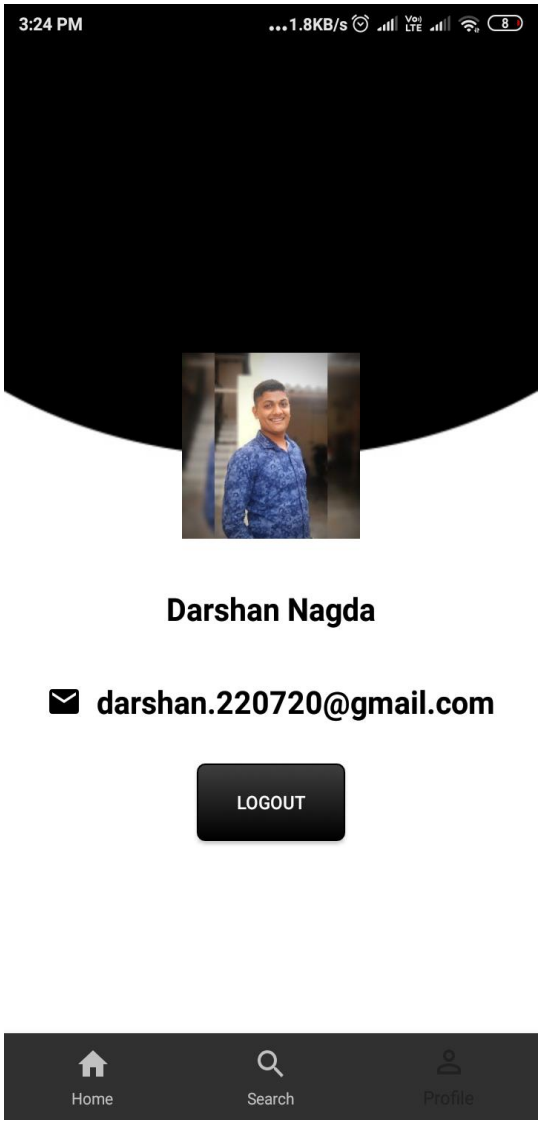


Fig 6.4

User Profile

Chapter 7 : LIMITATIONS OF PROJECT

This application is run only on android devices not supported for IOS/Apple user. This application is inly recommend the apps not recommend movies, music and books. It’s provide log in through only google account.

Chapter 8 : OUTCOME

It’s helps user to find their interest app based on their tastes and this app displays the result in sorting manner which helps a lot to user to find which app is better for them to use.

Chapter 9 : FUTURE ENHANCEMENT

- We can add features for recommendation of music , movies , books ,etc.
- Also we can provide create profile function for login through mobile number.
- To add more recommendation categories in the app
- To add more filters in search, so the users gets more precise recommendations .
- To Decrease the response time of the REST API.

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