FINAL Report
of
Unique FOlder app (UFO)

Team #18

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- **Akhil Beerelli - 4**
- **Abhilash Parimi - 65**
- **Avinash Sankarasetty – 81**

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INTRODUCTION

1.1 Introduction

In Windows, it’s all so easy. You’ve got File Explorer in Windows 8 and Windows Explorer in previous versions, making it a cinch to create folders and copy, move, or delete files. But although Android has a perfectly fine file system, it doesn’t come with a file management tool.

Android by delivering tons of great features that work well together to make your life easier in the long run. You'll see the usual features like moving, sharing and deleting the files on your phone, as well as less common features like compressing files, and streaming files located in cloud storage. Of course you'll also find the ability to easily browse your files, and manage your files with their cadre of useful disk tools.

When you open it, you get a screen of folders and files displayed as touch-friendly icons. You can configure the display via the View option at the bottom of the screen. Tap a folder or file to open it.

To move, copy, or delete files, tap and hold a file. That selects the file, and changes. The file you tapped and held is now selected, and you can tap other files and folders to select them as well.

1.2 Scope and Objective

Android File Manager delivers a great experience with all of the features you didn't realize that you wanted. From managing files, to storage, their features all work well together delivering a simple and easy to use app.

The application will connect with online database to store the user uploaded files.

1.3 Problems with Existing System

- In traditional file explorer system, there was no such security for the uploaded data.
- The files were not categorized, which may lead to unstructured data.
- Data duplication may also exist which increases the disk size which may lead to slow the outcome process.
- No file search over voice command.
- Performance of device may become slow due to consuming huge storage area.

2.Project Proposal

2.1 Introduction

Unique Folder App is an application using which the user can store his/her files, photos, payment card details, etc. The application has security features to keep the documents of the user secure. The application also avoids duplication of the files. Also the user can retrieve a file using a speech recognition principle.

2.2 Project Goal & objectives

- **Goal**
  The goal of this project is to create an android application which stores important documents of the user securely and avoids duplication of those documents.

- **Objectives**
  - Stores important files, documents, card details, etc.
  - The app has security feature.
  - Need to avoid duplication (same document should not be there more than once).
  - Speech recognition, we should be able to open the required document by using speech.

- **Specific Features**
  - Avoids Duplication
  - Retrieves files by speech

- **Significance**
  The application prevents the duplication of the files in the gallery and the files in the gallery can be extracted using speech recognition.

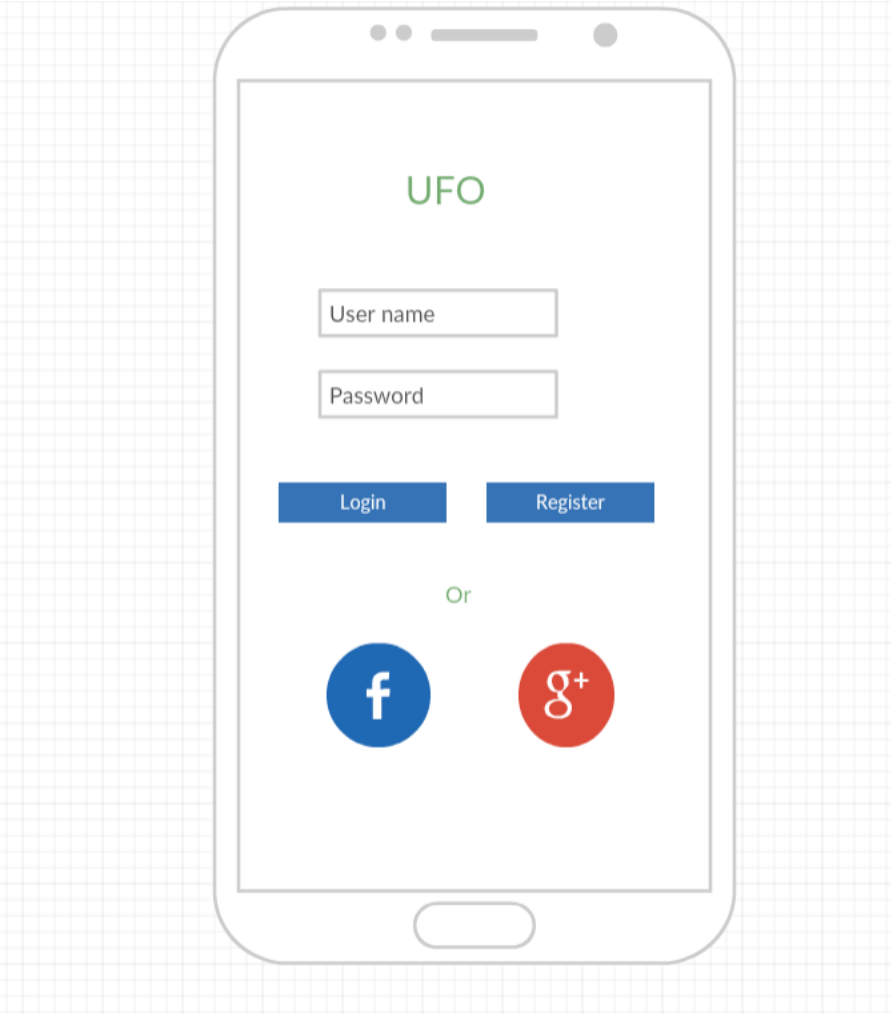
3 First Increment Report

❖ Existing services / REST API

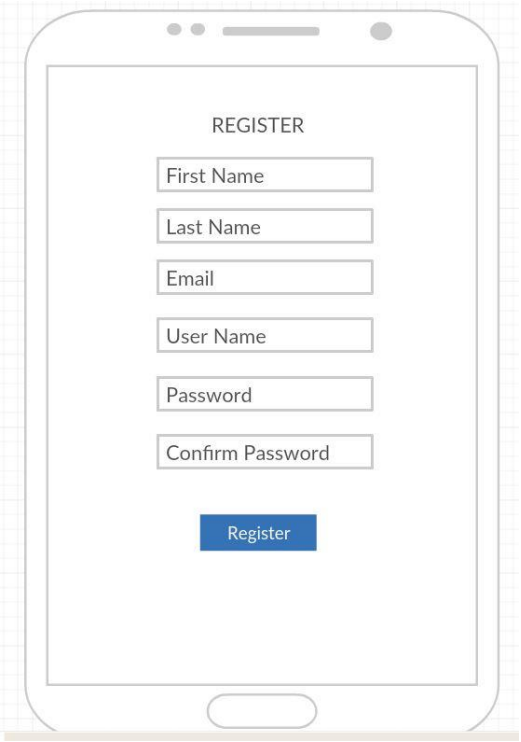
Did not use any API's in the first increment but will be using Camera API and Speech Recognition API.

❖ Design Details

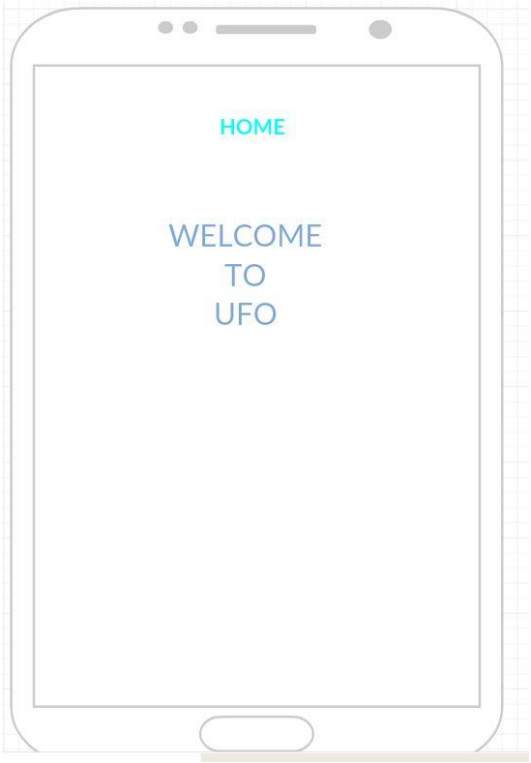
- ➢ Wire frames
  - This is the first page



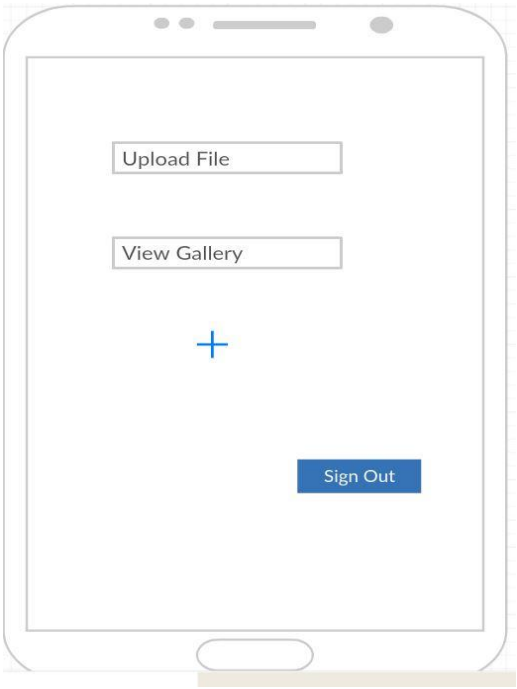
- This is the registration page



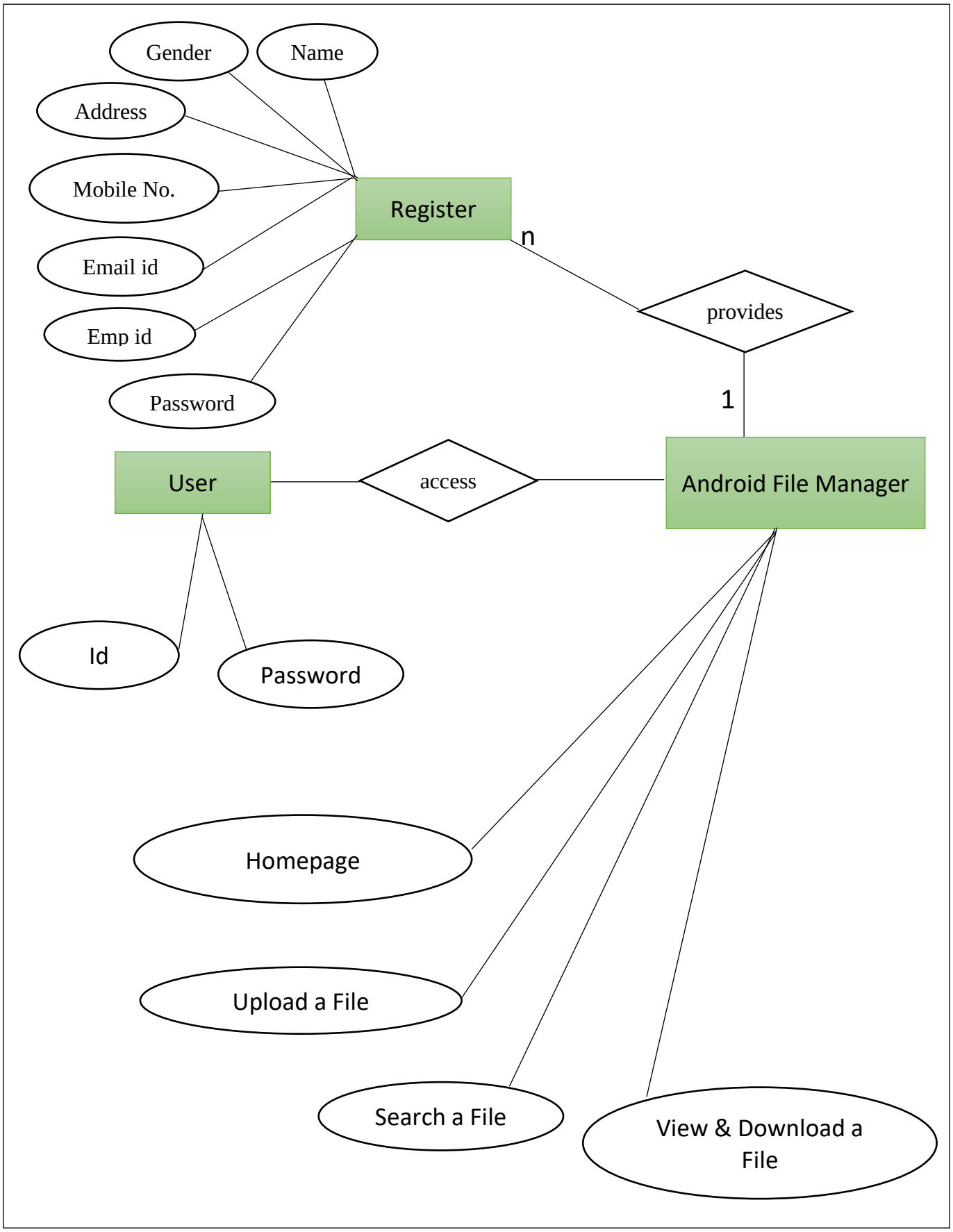
- After successful registration or login the user is directed to the welcome page



- After pressing continue button the user is asked either to upload a file or retrieve a file.



E-R Diagram


Gender
Name
Address
Mobile No.
Email id
Emp id
Password
Register
n
provides
1
User
access
Android File Manager
Id
Password
Homepage
Upload a File
Search a File
View & Download a File

Use Case Diagram

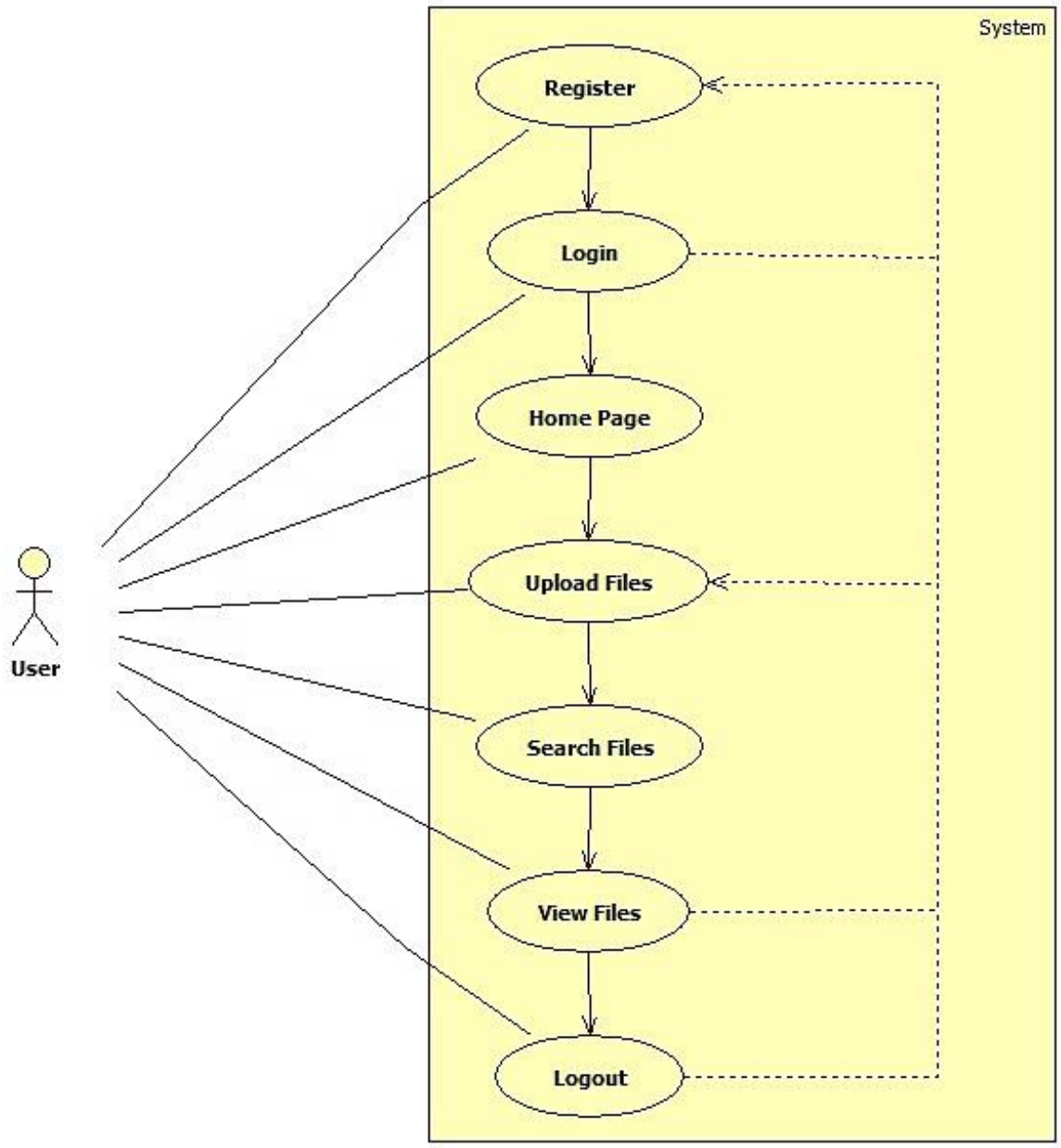


Fig. Use Case Diagram of User

Sequence Diagram

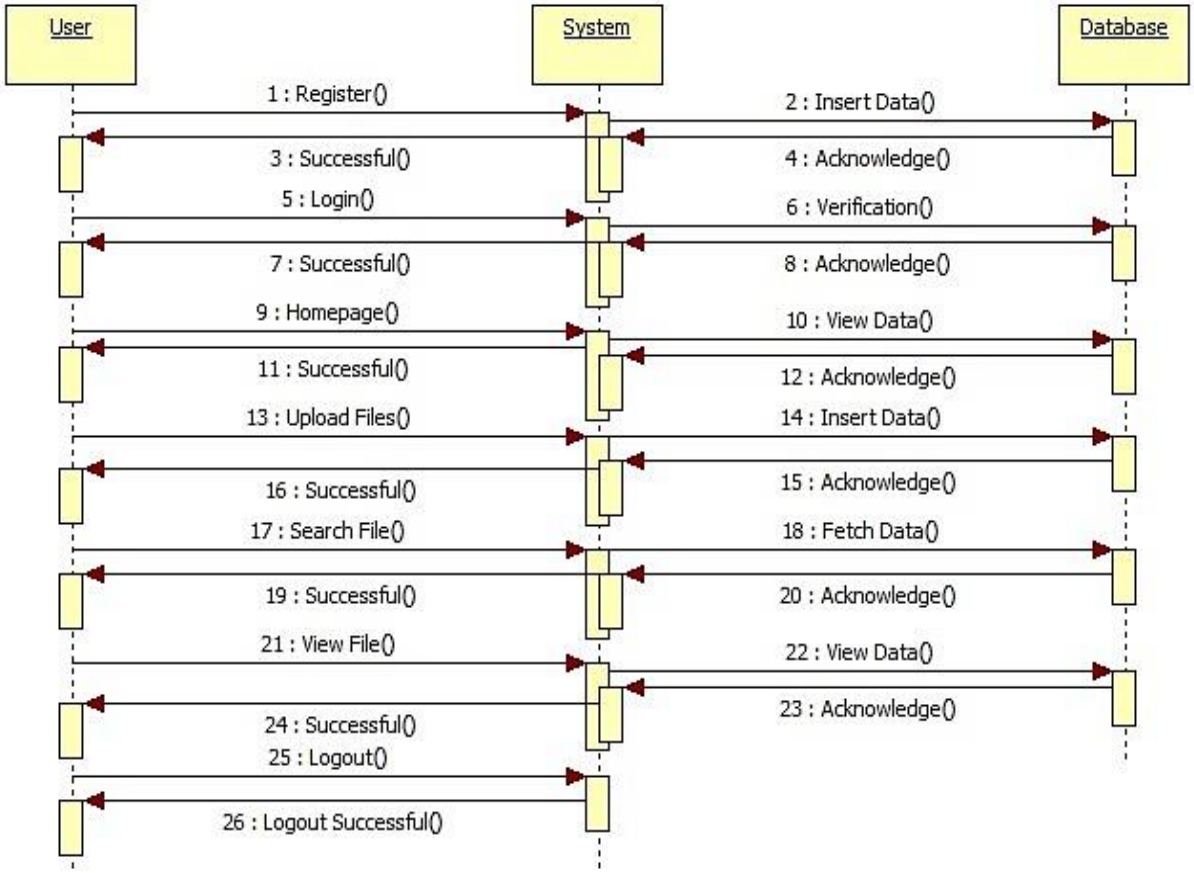


Fig. Sequence Diagram of User

Activity Diagram

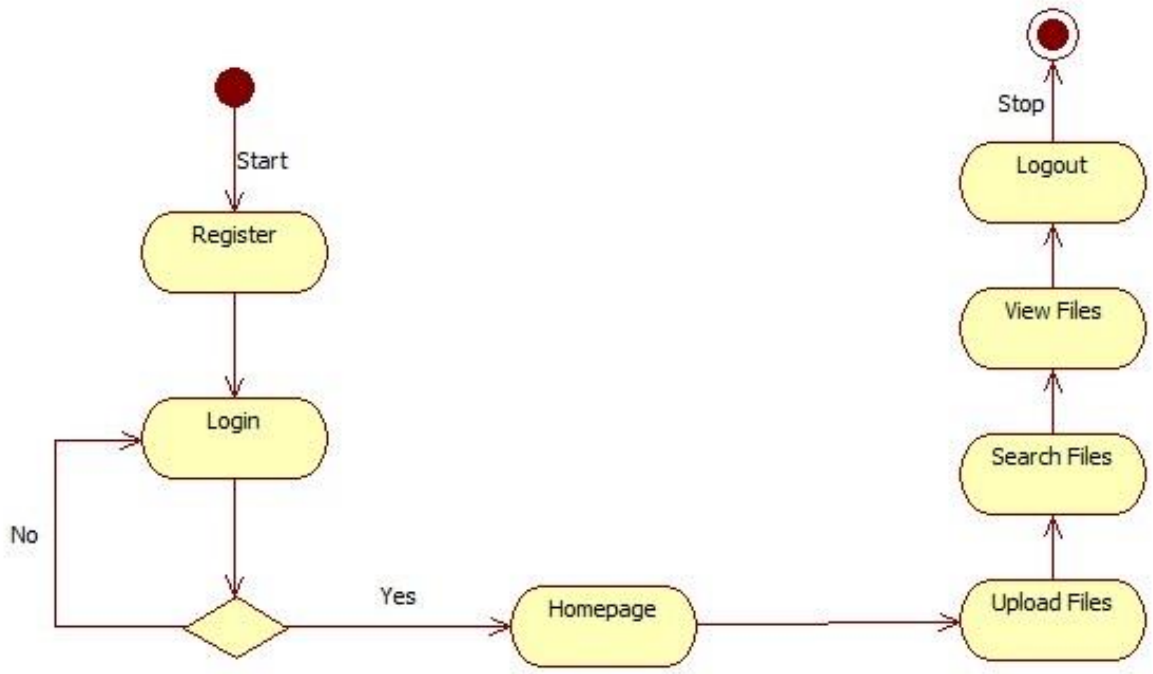
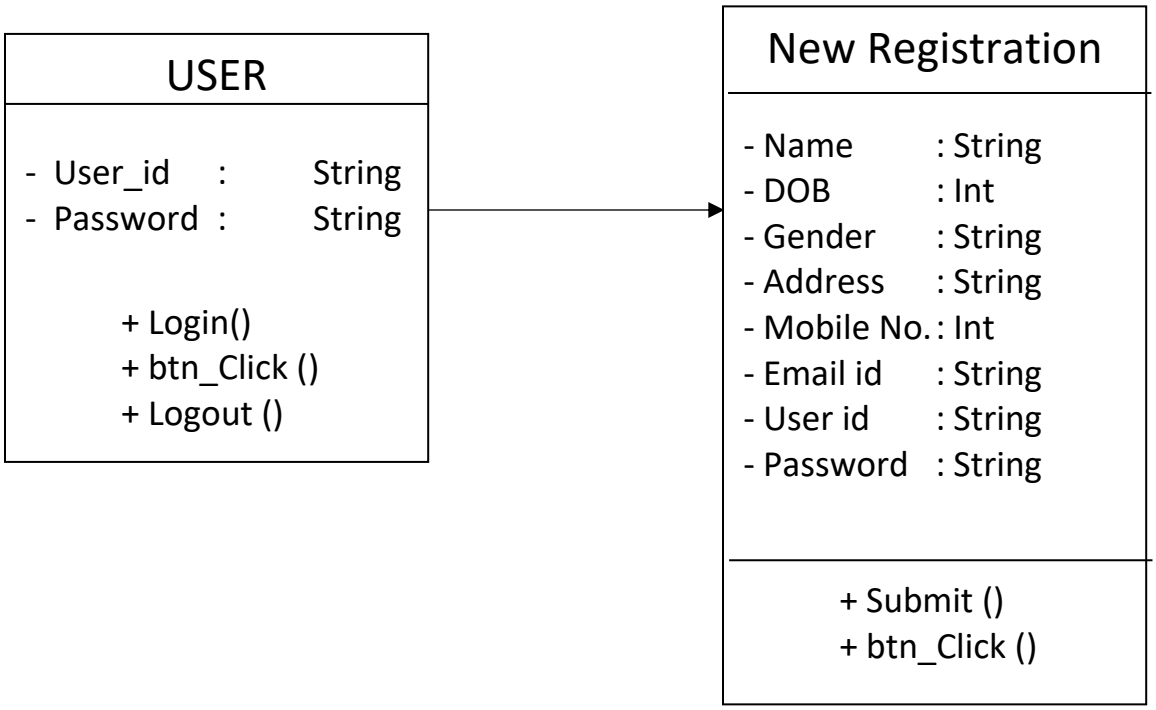
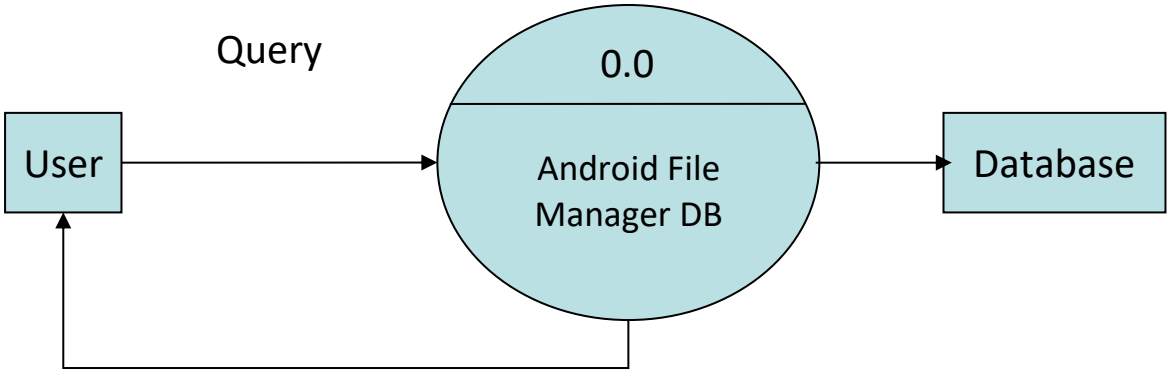


Fig. Activity Diagram of User

Class Diagram

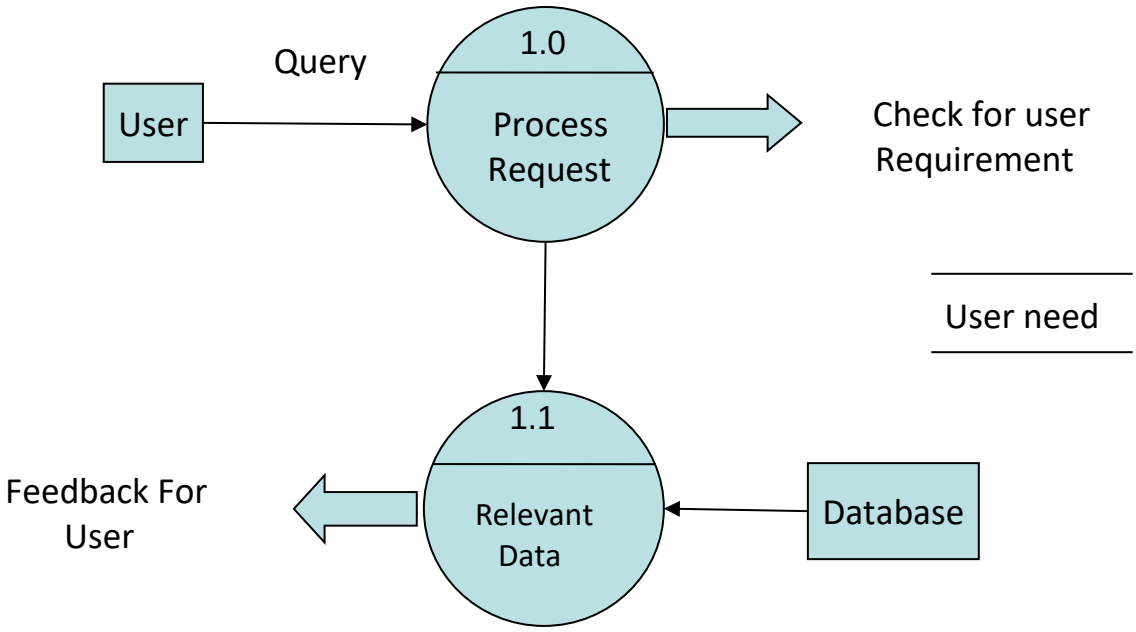


Data Flow Diagrams

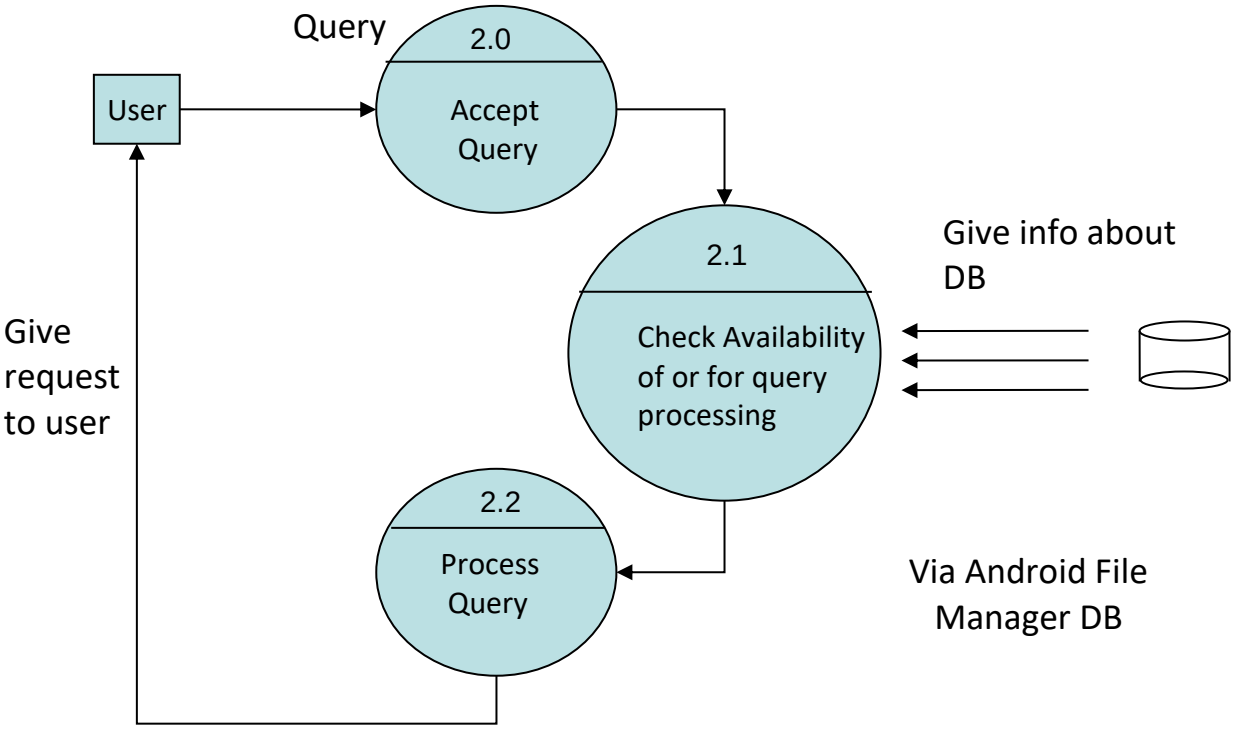


DATABASE DETAIL

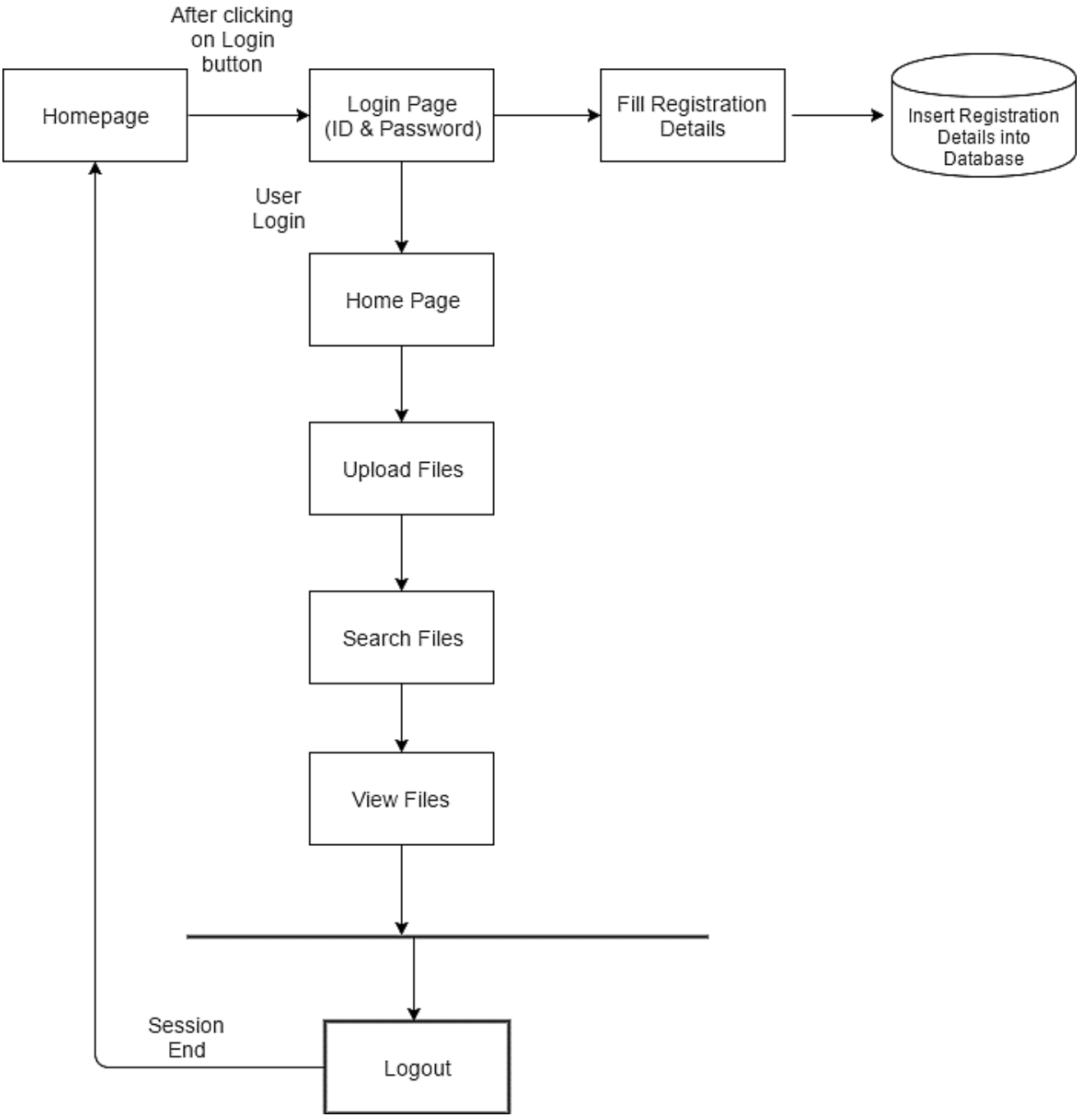
LEVEL 1 DFD


1.0
Query
User
Process Request
Check for user Requirement
User need
1.1
Feedback For User
Relevant Data
Database

LEVEL 2 DFD: PREDICTION



System Architecture

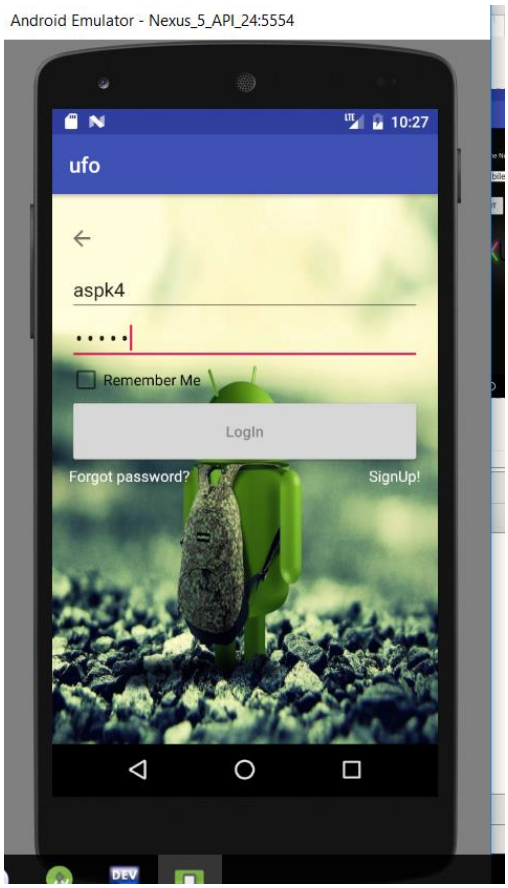


❖ Implementation :

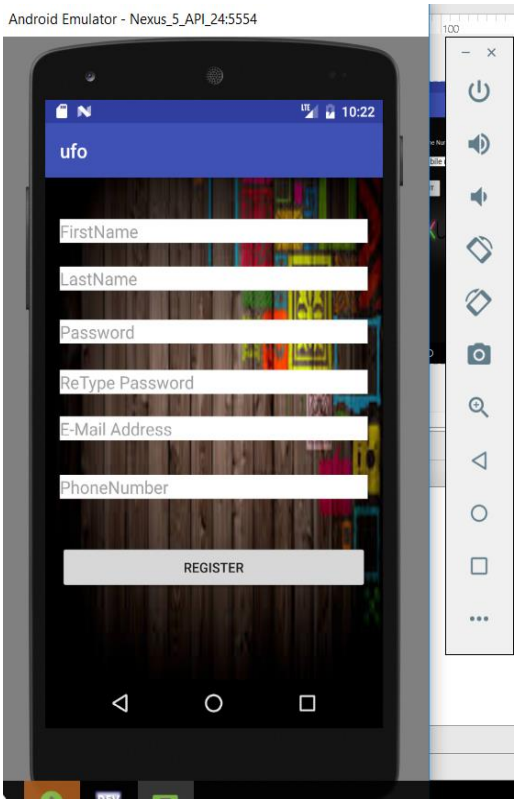
Use of Android Studio to deploy an android app in an android mobile.

❖ Deployment :

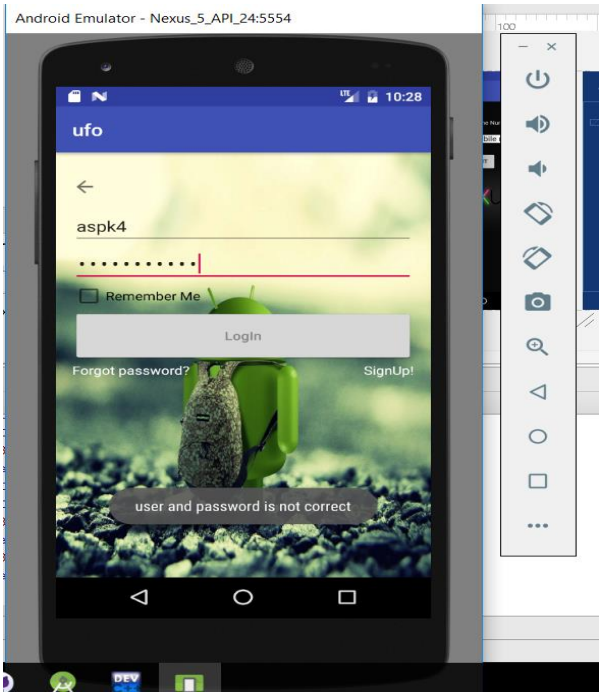
- This is the first page or the login page of the app



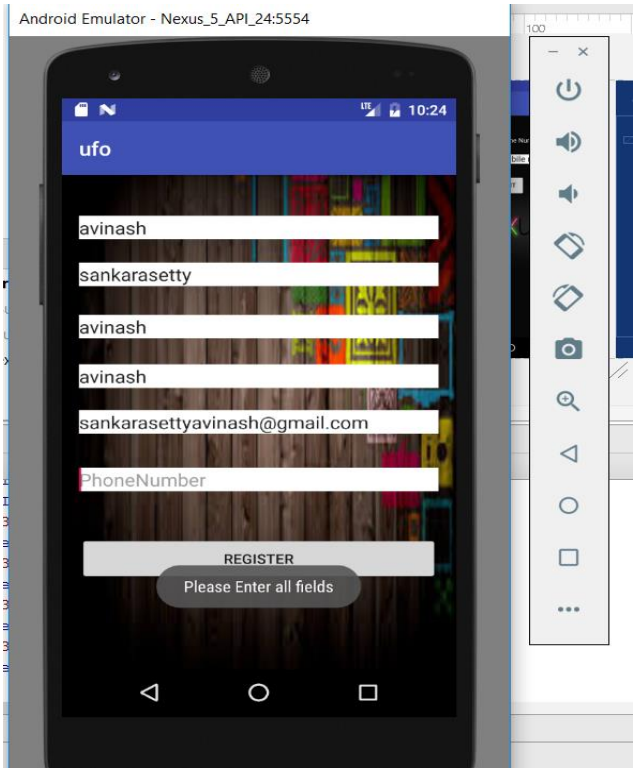
- This is the registration page



- When the entered password is wrong then this will be displayed

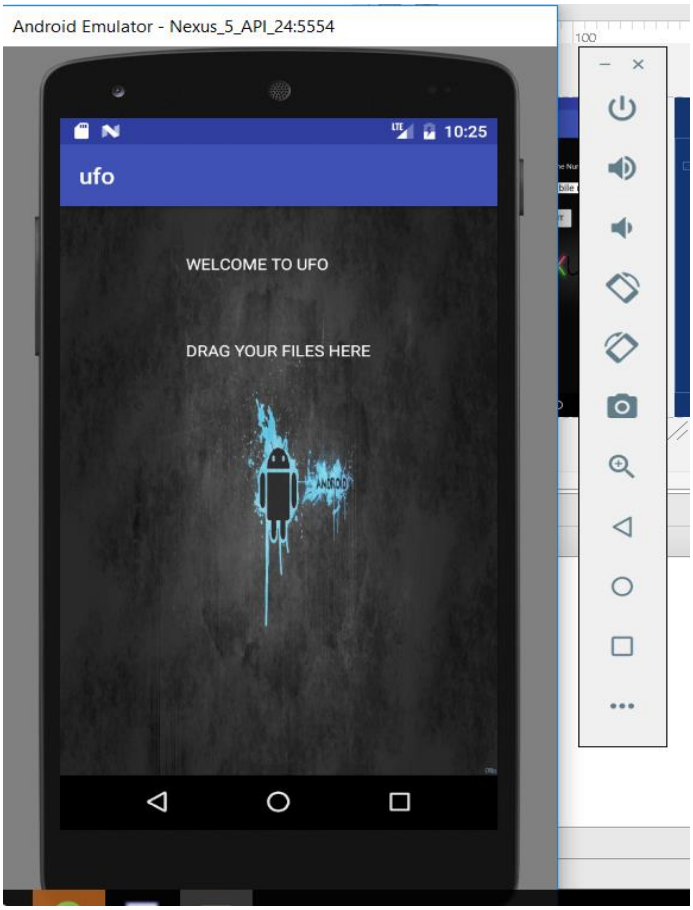


- If the user did not enter all the details then this will be displayed



- Incase the user forgets the password a link will be sent to his mobile number to reset the password

- This is the home page of the UFO after successful login or successful registration



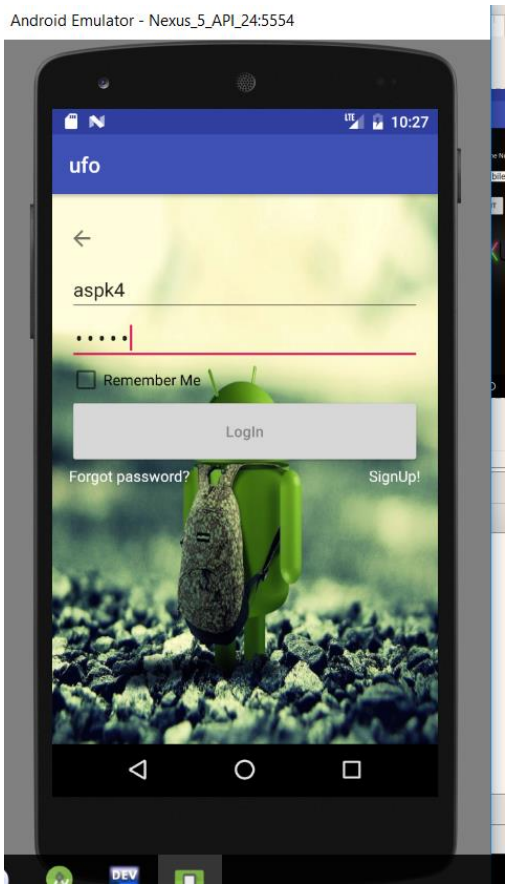
4.SECOND INCREMENT REPORT

❖ Implementation :

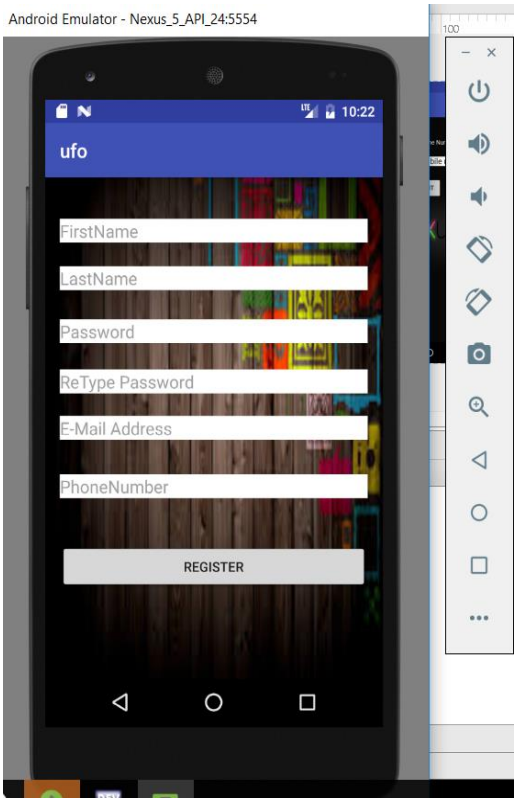
Use of Android Studio to deploy an android app in an android mobile.

❖ Deployment :

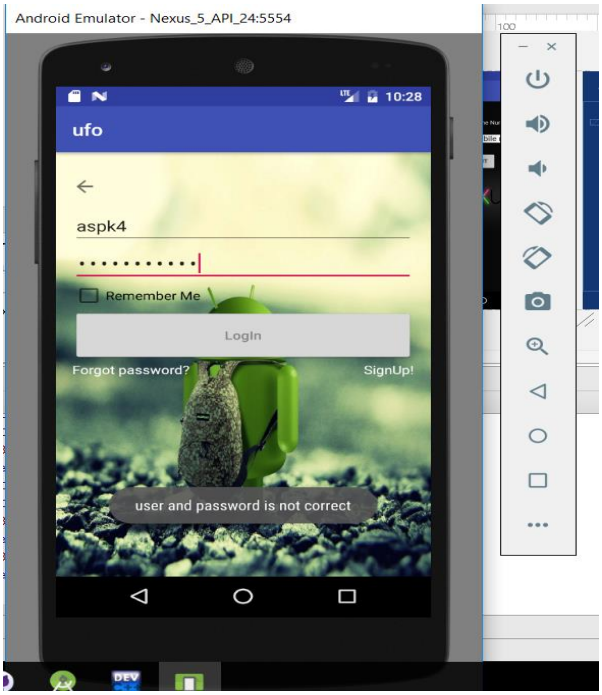
- This is the first page or the login page of the app



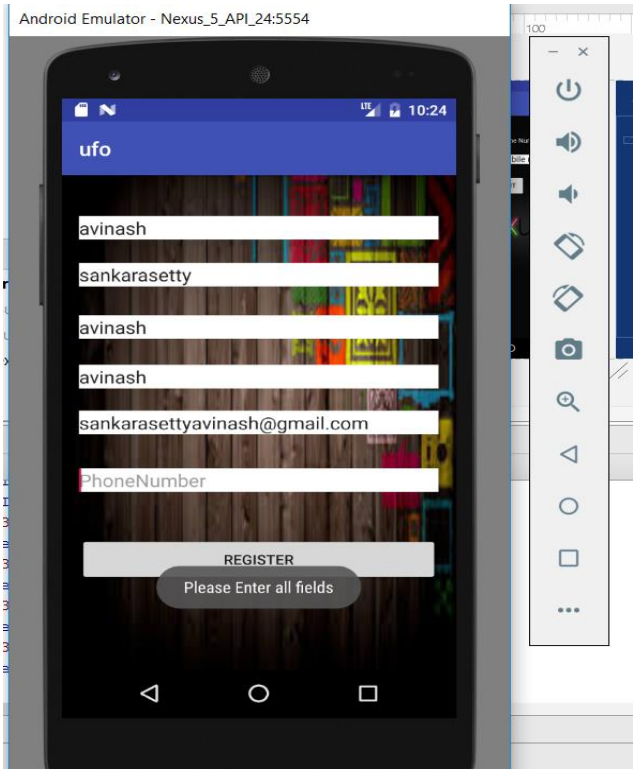
- This is the registration page



- When the entered password is wrong then this will be displayed



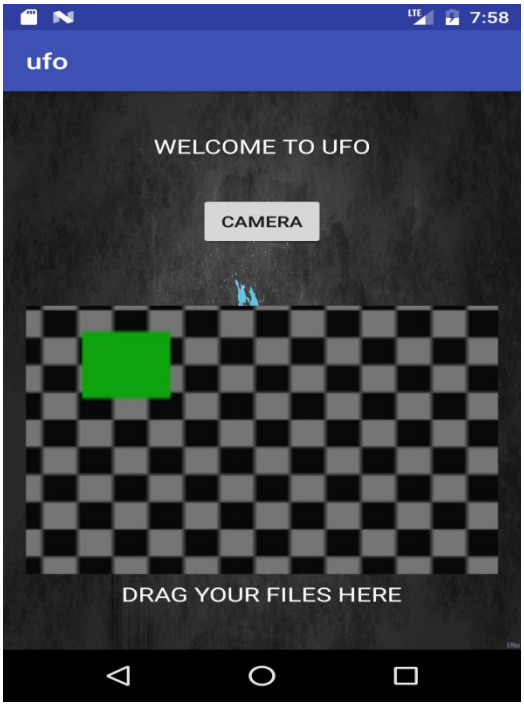
- If the user did not enter all the details then this will be displayed



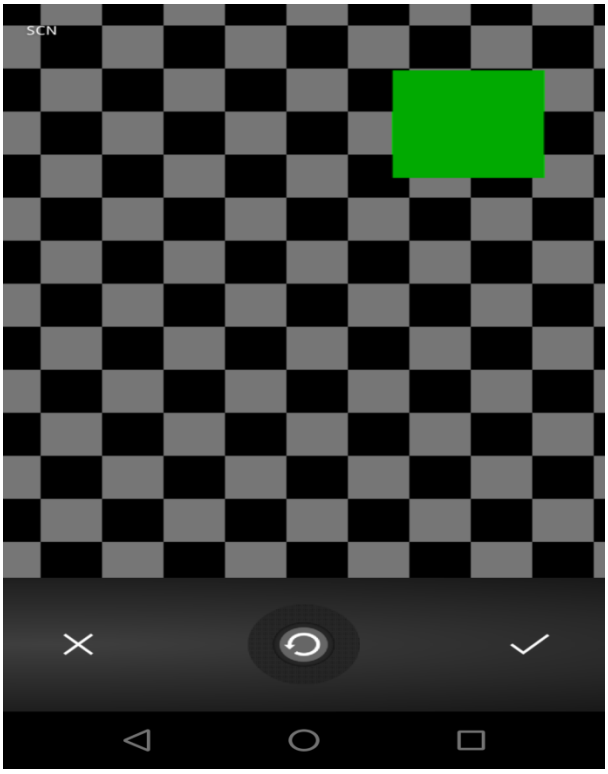
- Incase the user forgets the password a link will be sent to his mobile number to reset the password

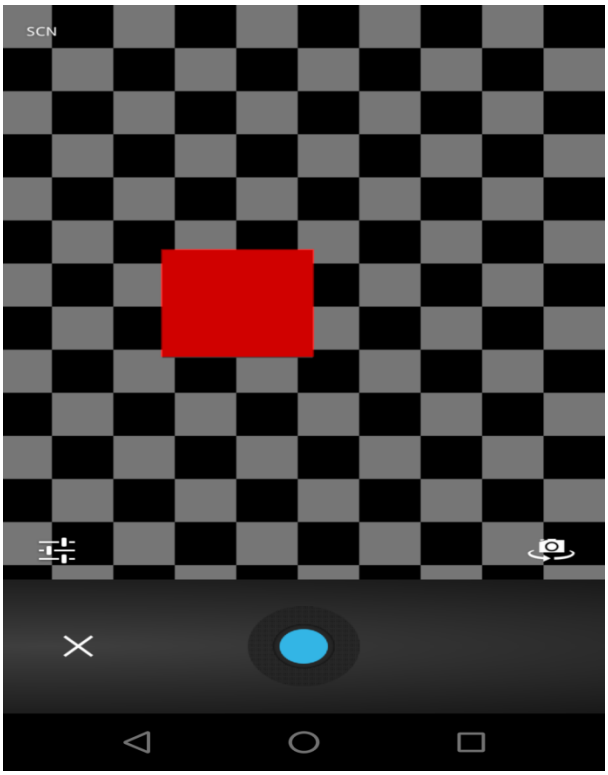
- This is the home page of the UFO after successful login or successful registration.

- After opening the camera app this is the screenshot.

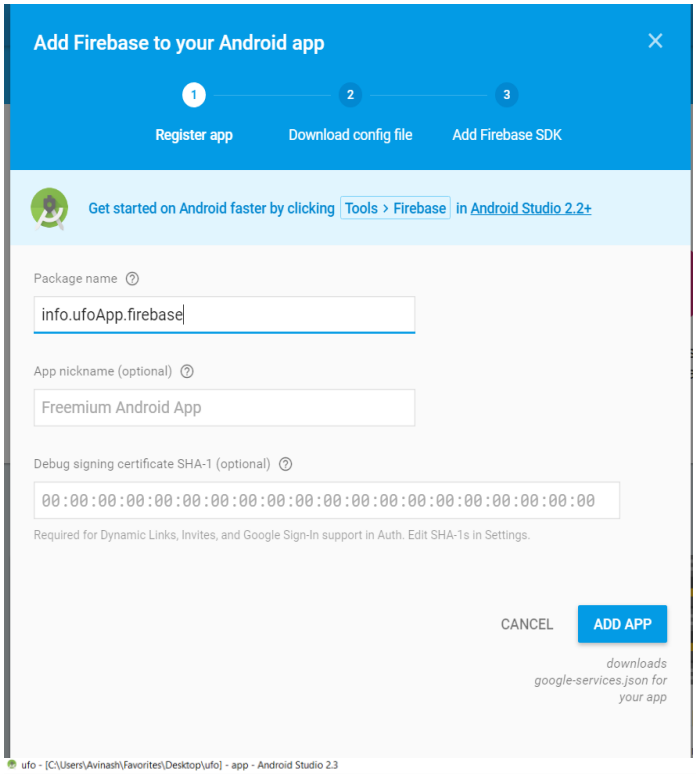


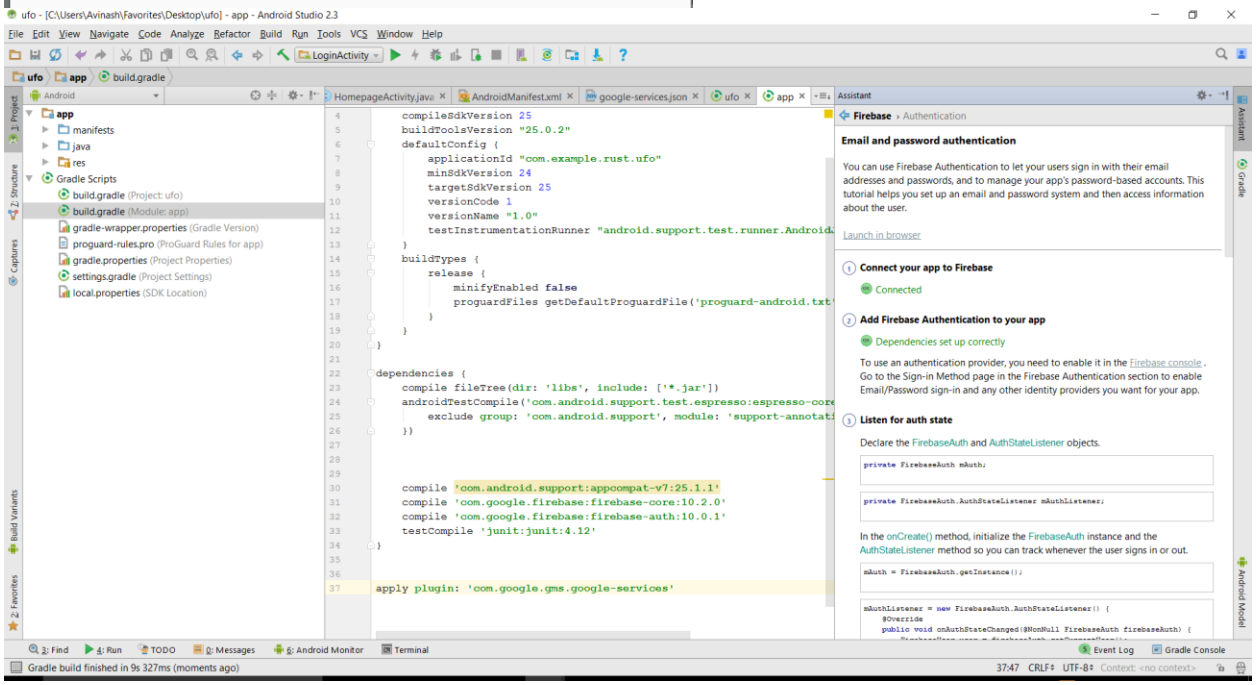
- This is the photo and video taken from the camera.


SCN


SCN

- Creation of database





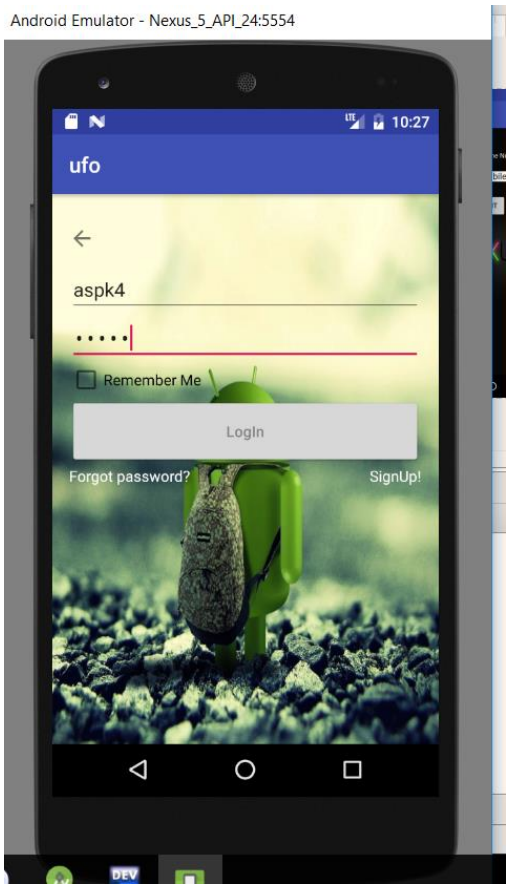
5.INCREMENT THREE REPORT

❖ Implementation :

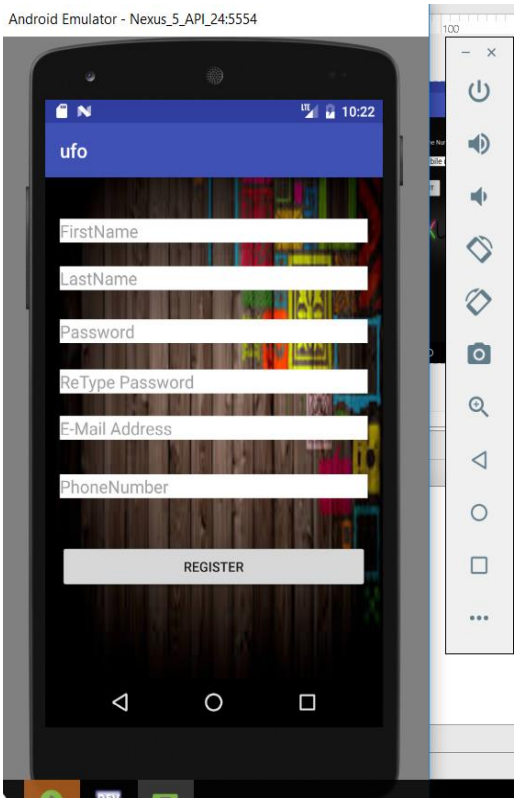
Use of Android Studio to deploy an android app in an android mobile.

❖ Deployment :

- This is the first page or the login page of the app



- This is the registration page



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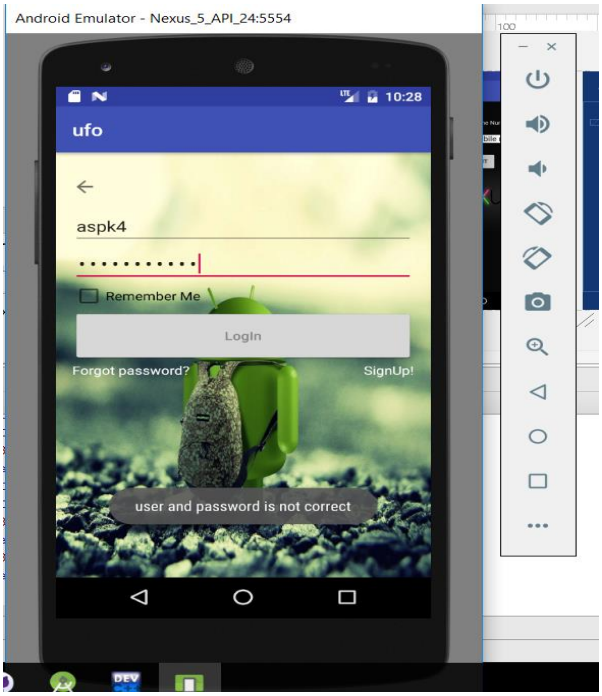
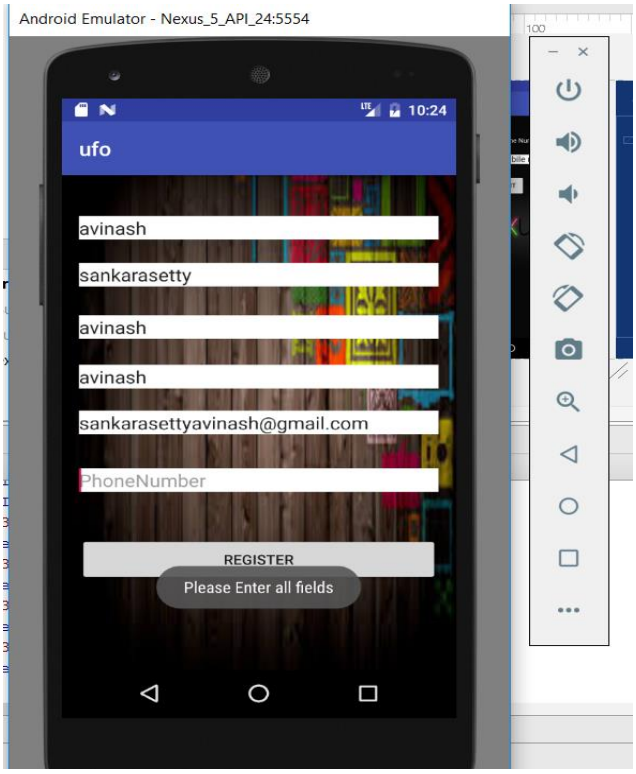
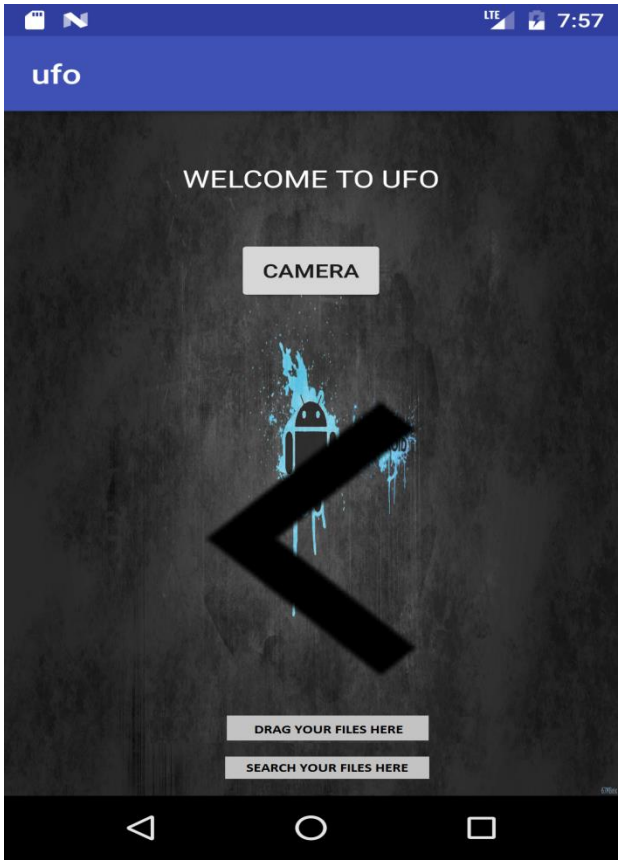


- If the user did not enter all the details then this will be displayed

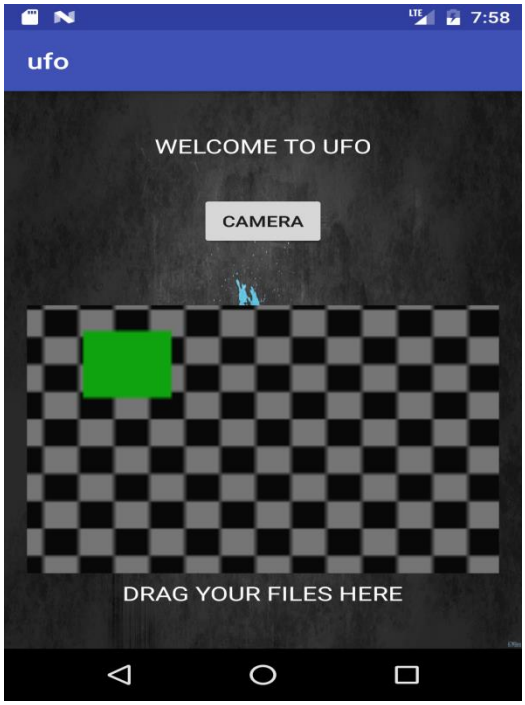


- Incase the user forgets the password a link will be sent to his mobile number to reset the password

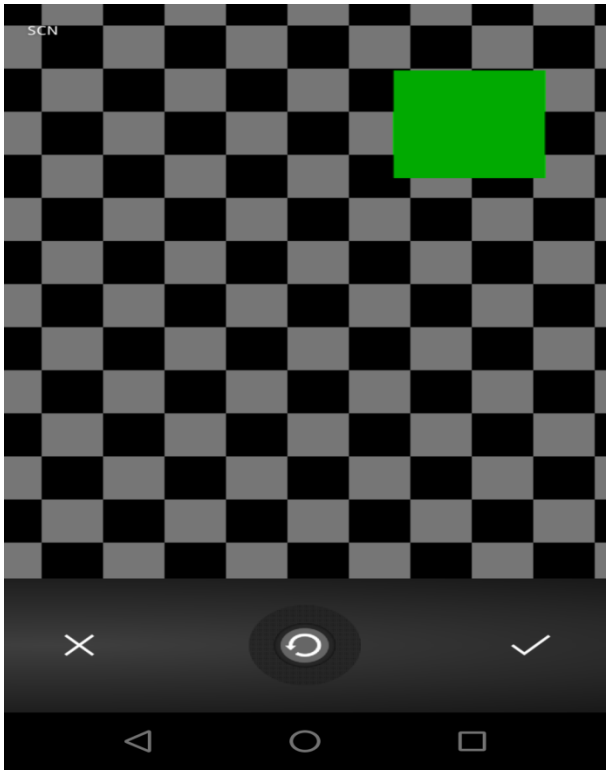
- This is the home page of the UFO after successful login or successful registration.

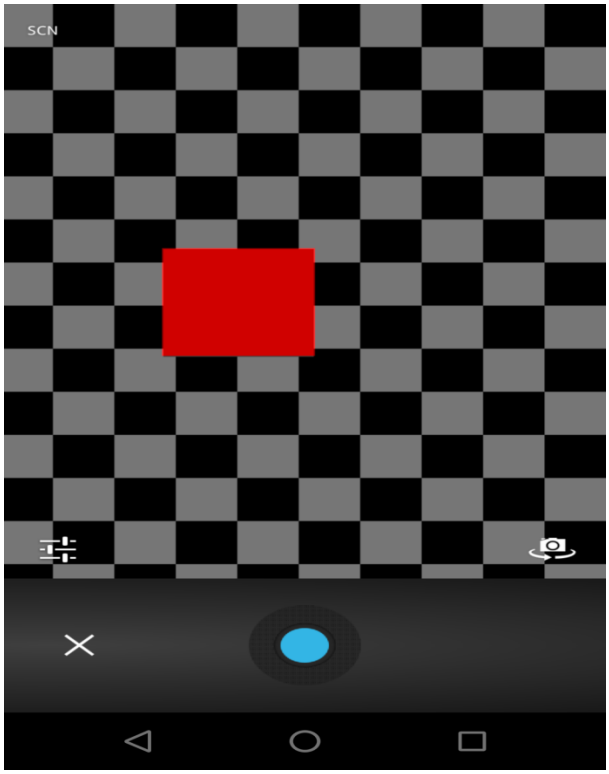


- After opening the camera app this is the screenshot.

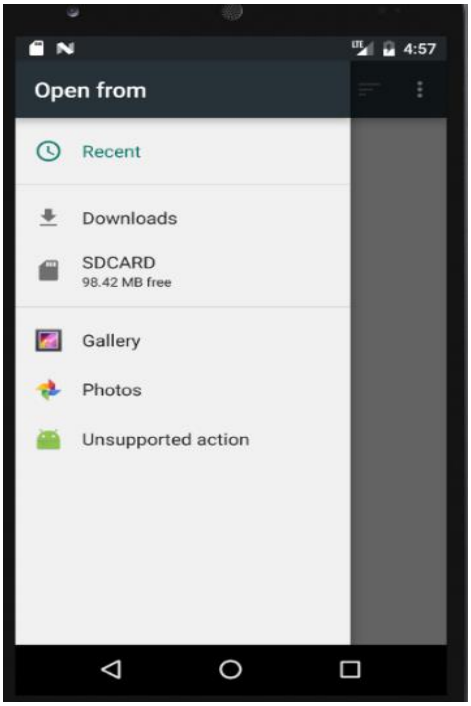


- This is the photo and video taken from the camera.



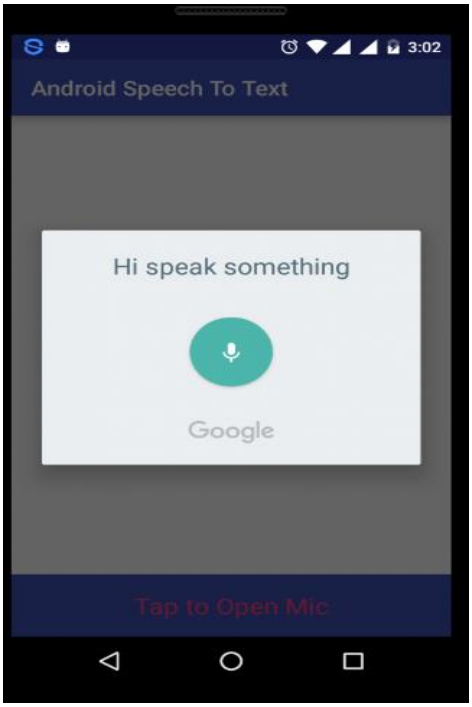


- When clicked on drag your files



- Then clicking on gallery we can select the required file

- When clicked on search your file the text to speech API is obtained


3:02
Android Speech To Text
Hi speak something
Google
Tap to Open Mic

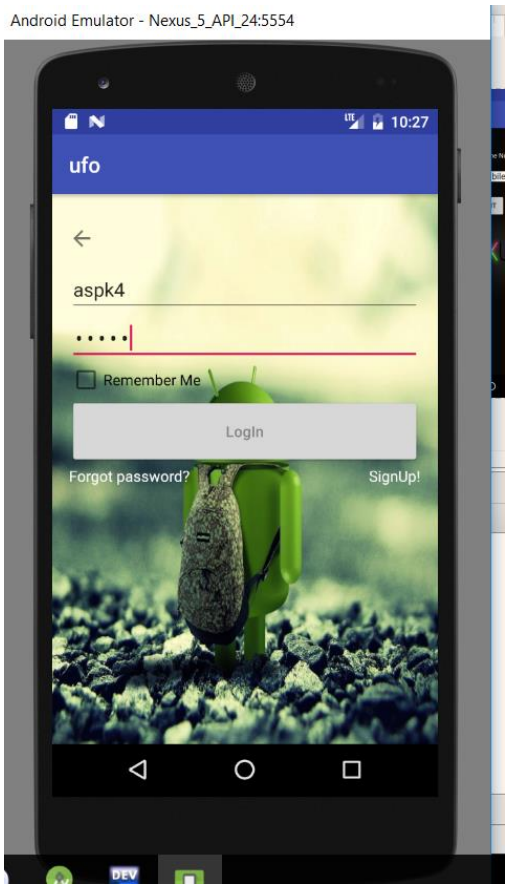
6.INCREMENT FOUR REPORT

❖ Implementation :

Use of Android Studio to deploy an android app in an android mobile.

❖ Deployment :

- This is the first page or the login page of the app



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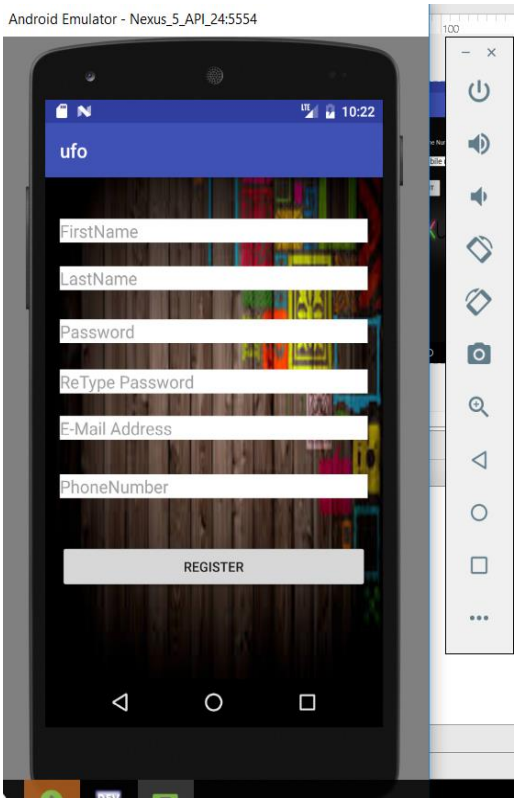

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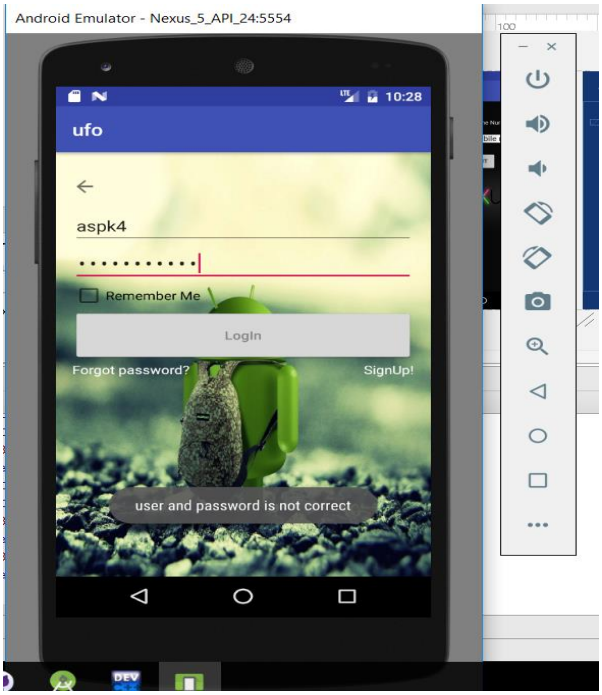

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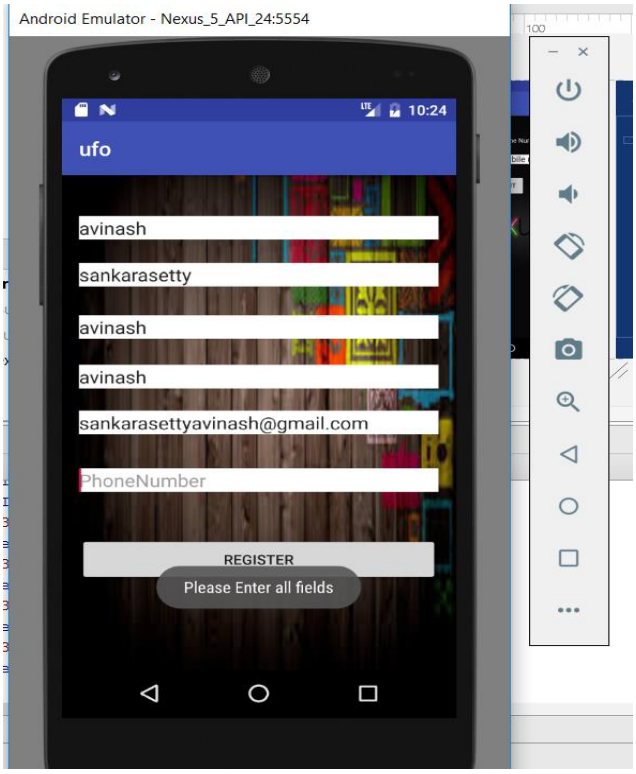
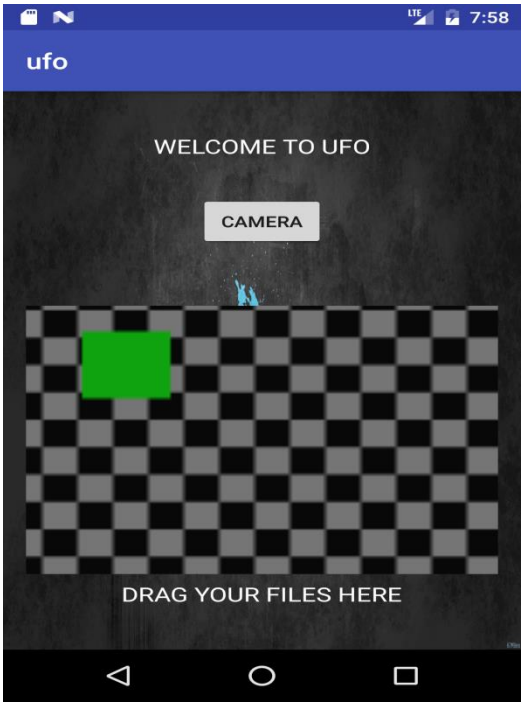


- Incase the user forgets the password a link will be sent to his mobile number to reset the password

- This is the home page of the UFO after successful login or successful registration.

- After opening the camera app this is the screenshot.



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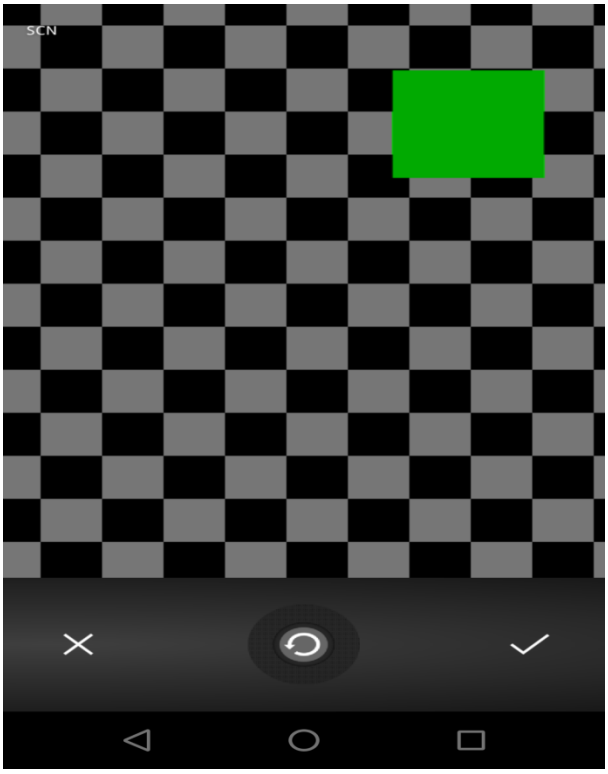
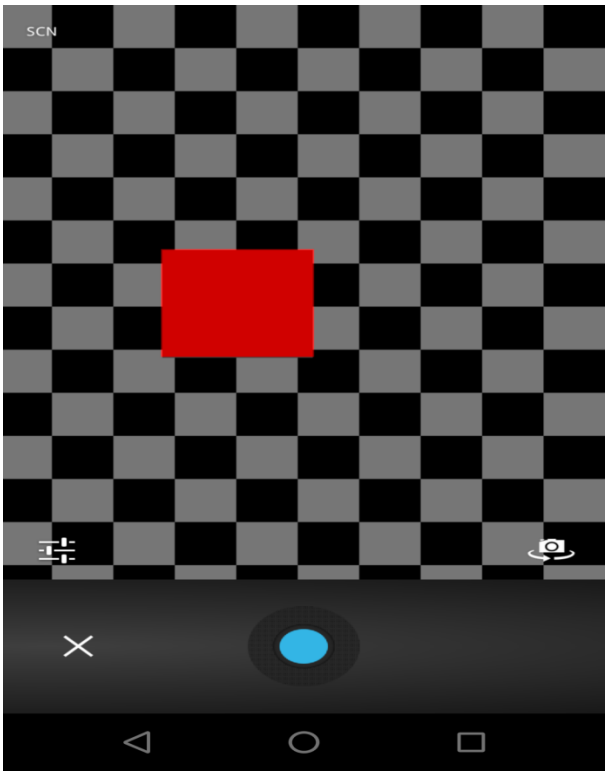

SCN


SCN

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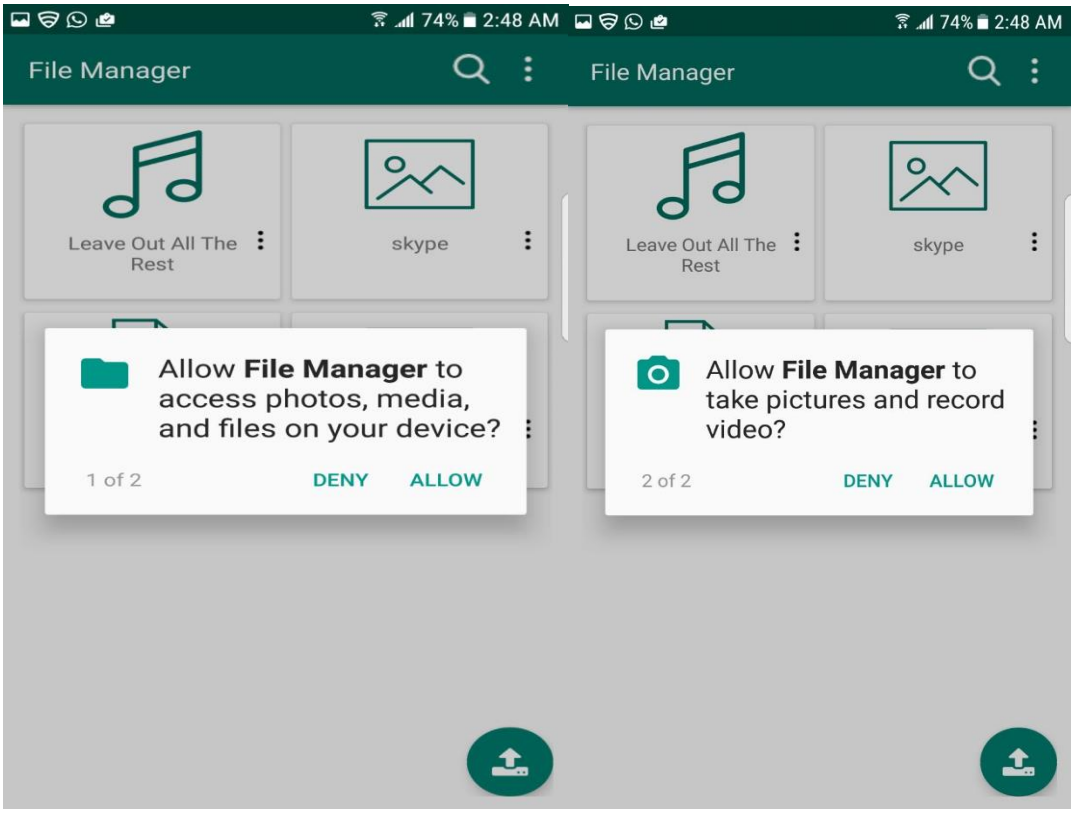
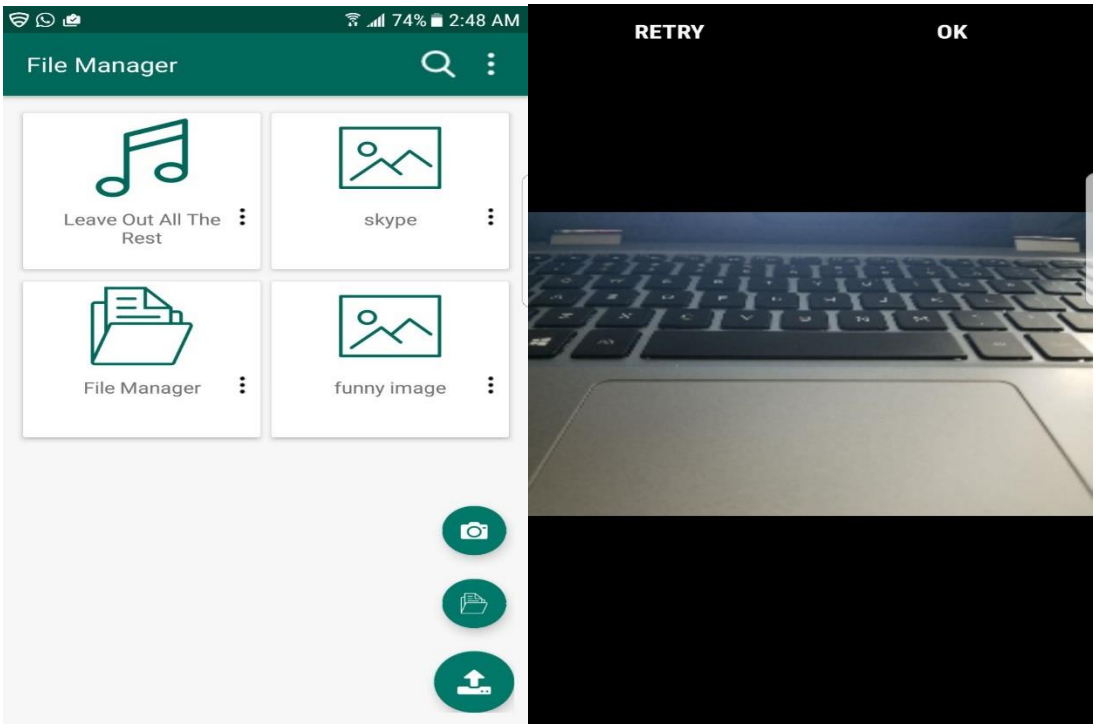
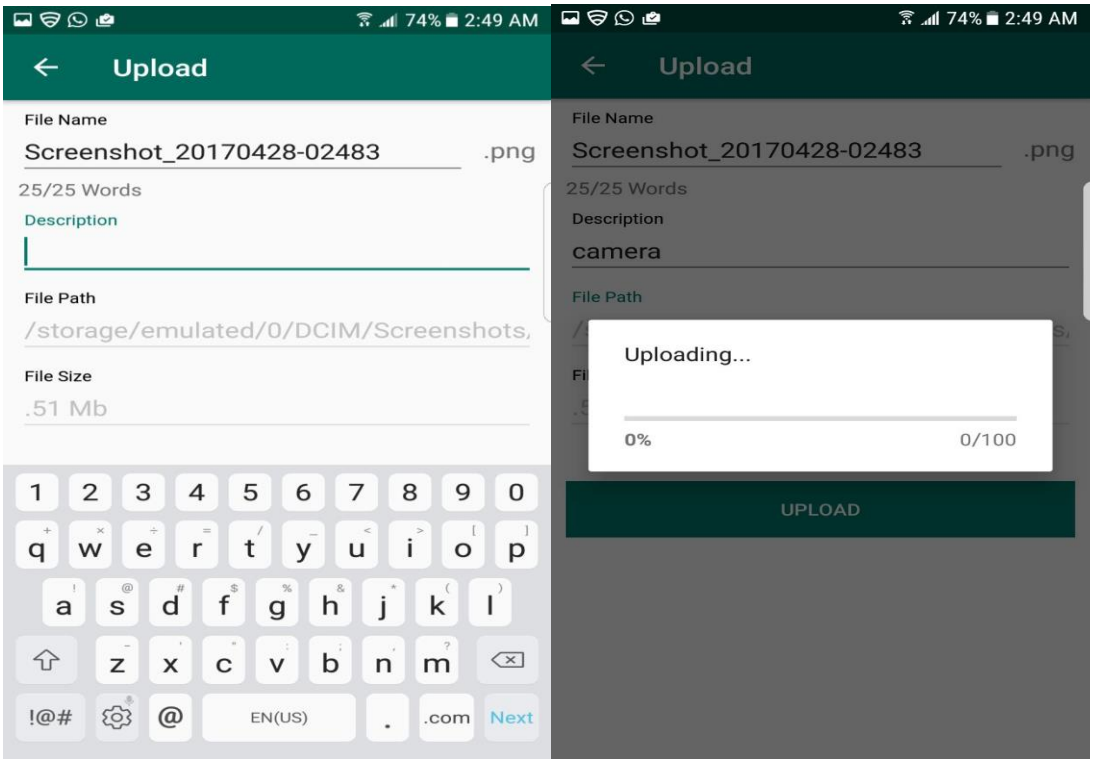
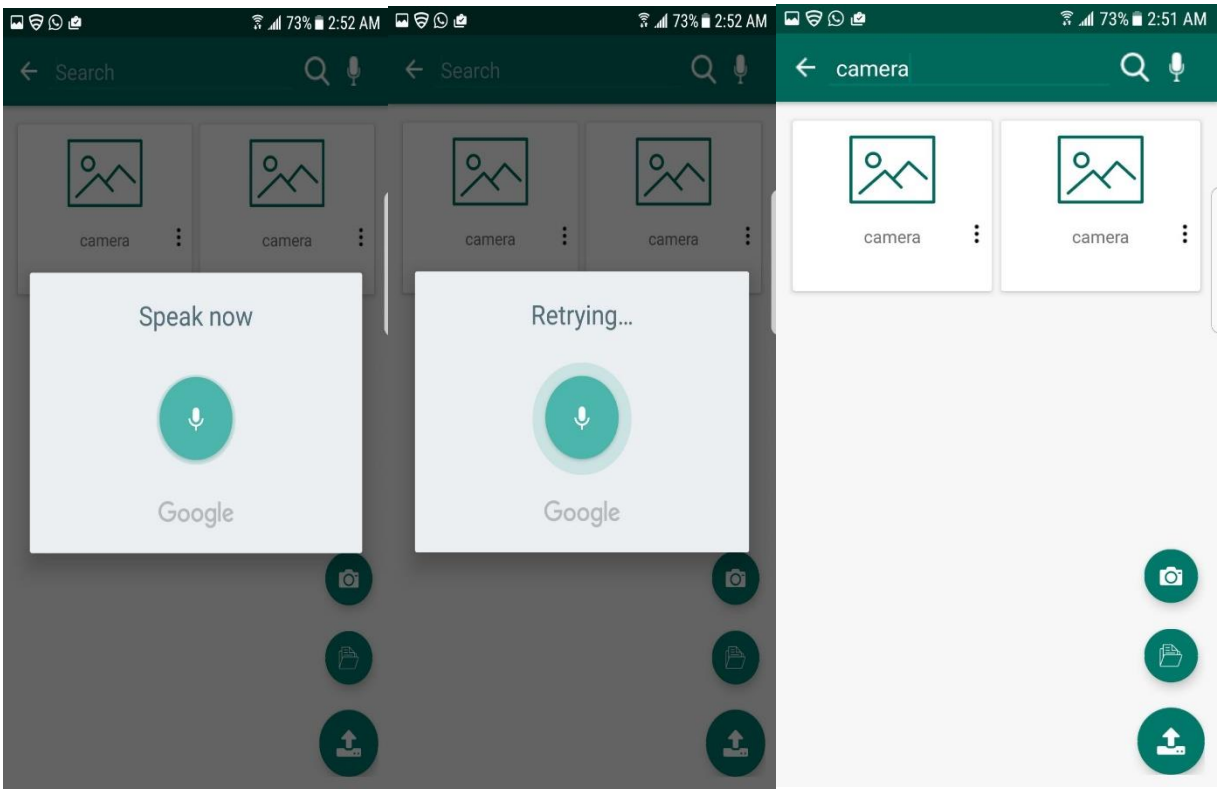


- Then clicking on gallery we can select the required file and upload it

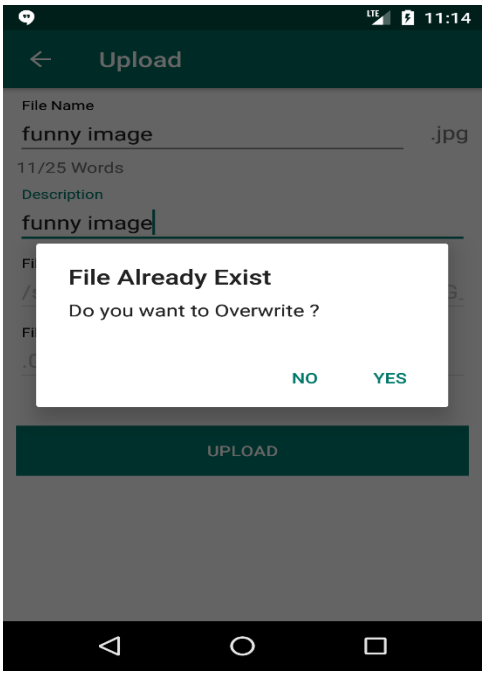




- When clicked on search your file the text to speech API is obtained

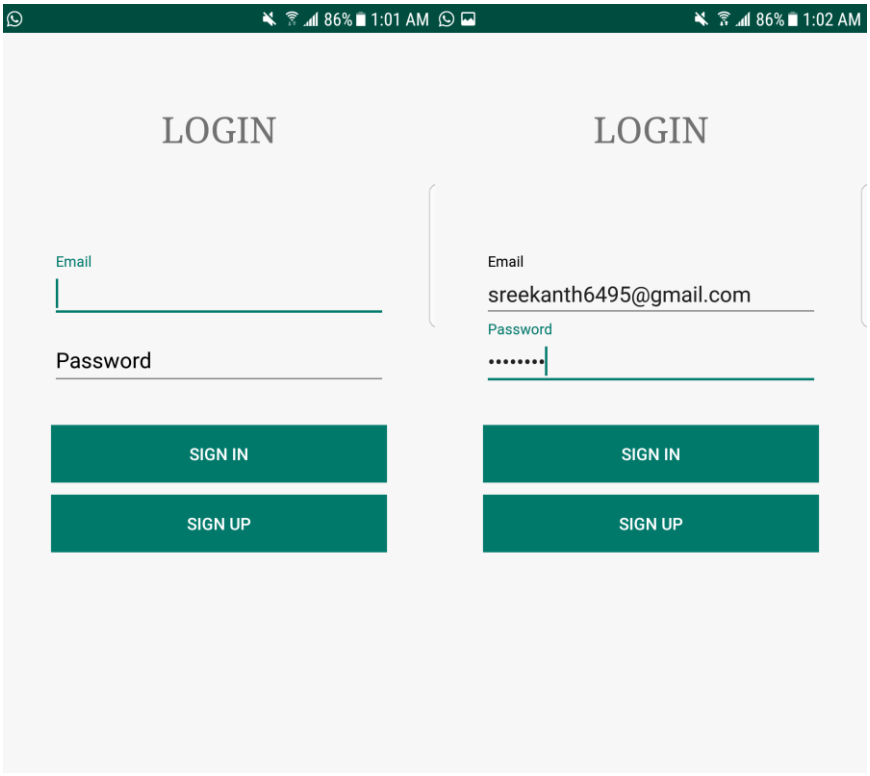


- DUPLICATION FEATURE

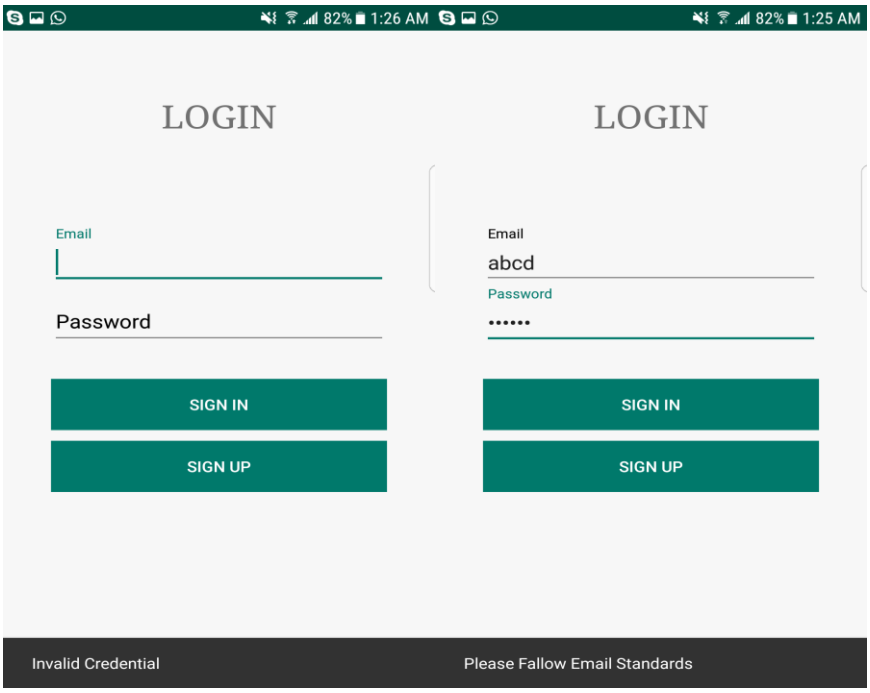


7. PROJECT DEPLOYMENT

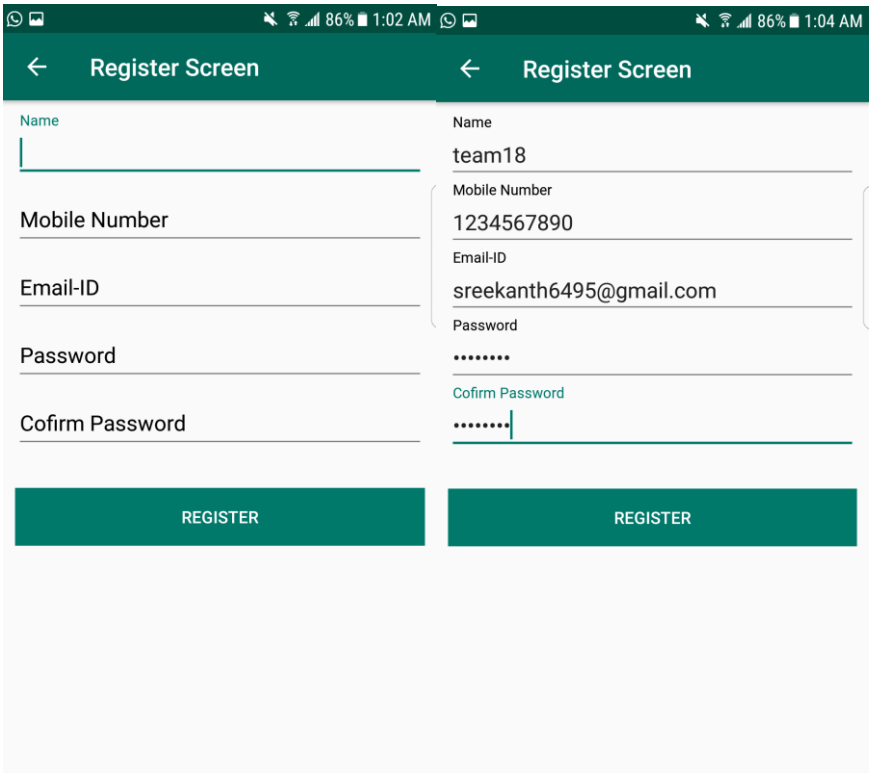
This is how the user logs into the login page



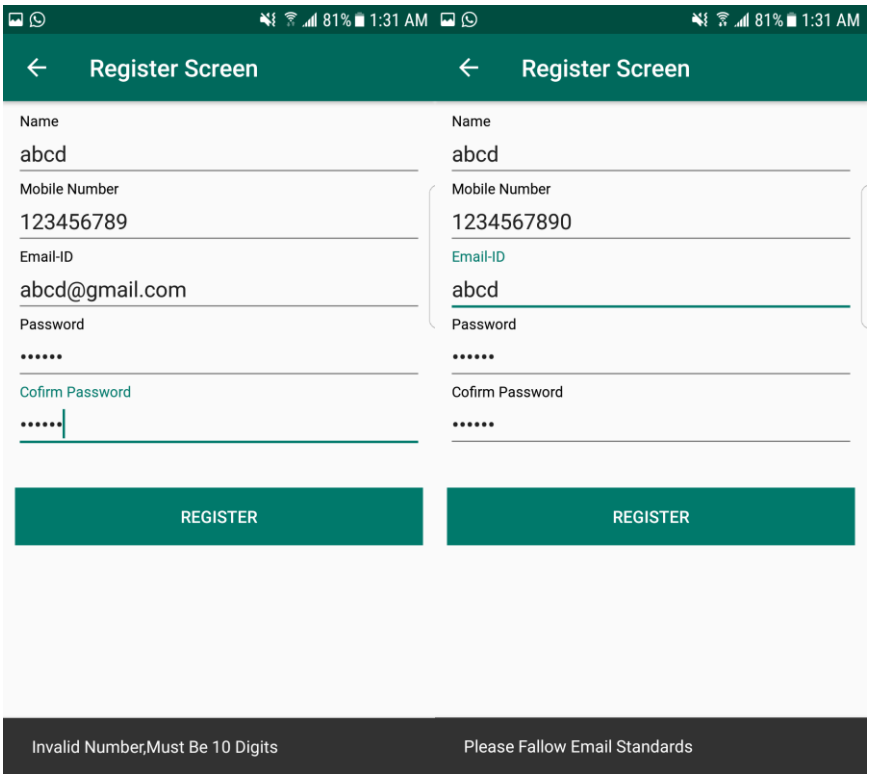
- If the user enter the details wrongly then these are the errors which are the occurred



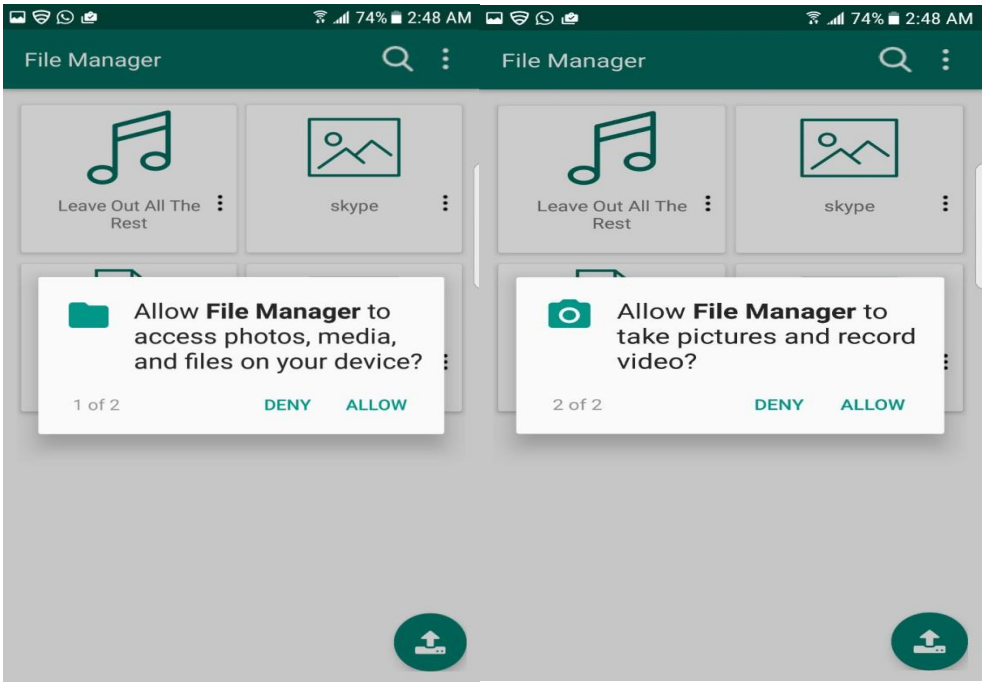
- This is how the user registers



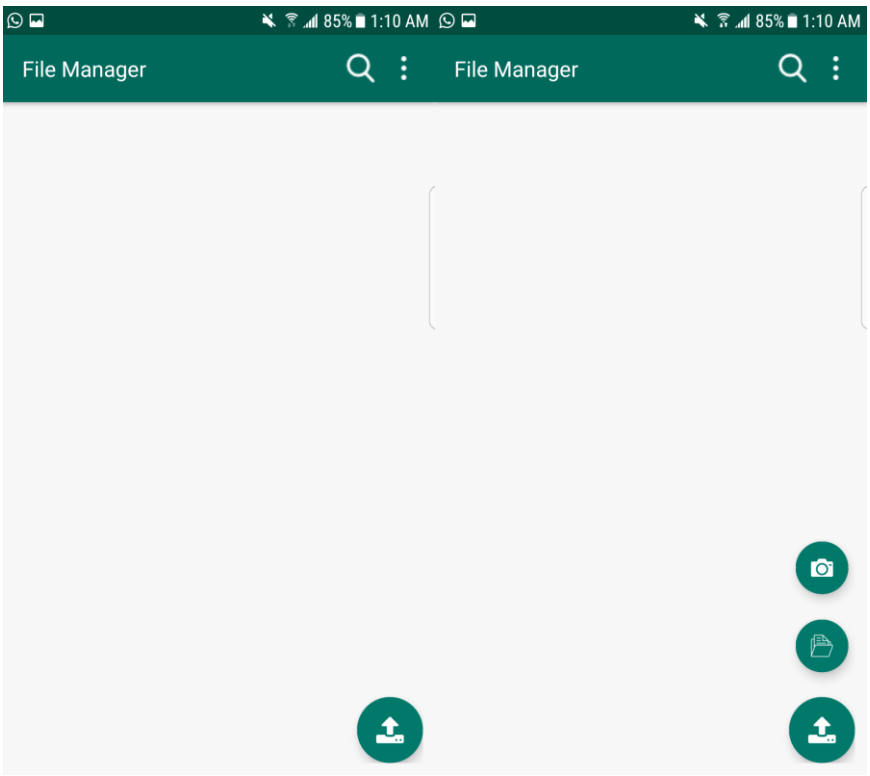
- Errors which occur when wrong details are entered



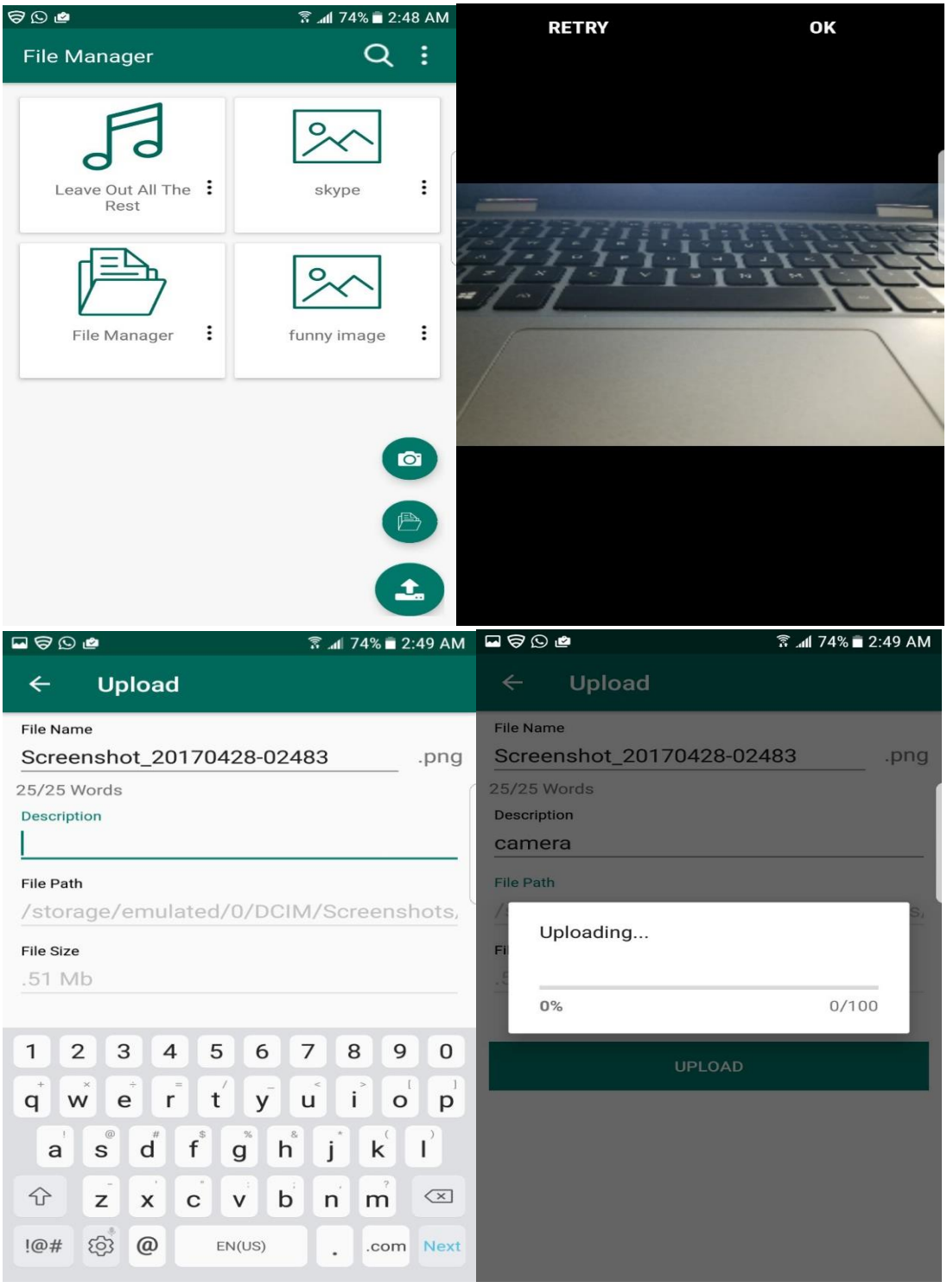
- Permissions which are asked by the application when logged in



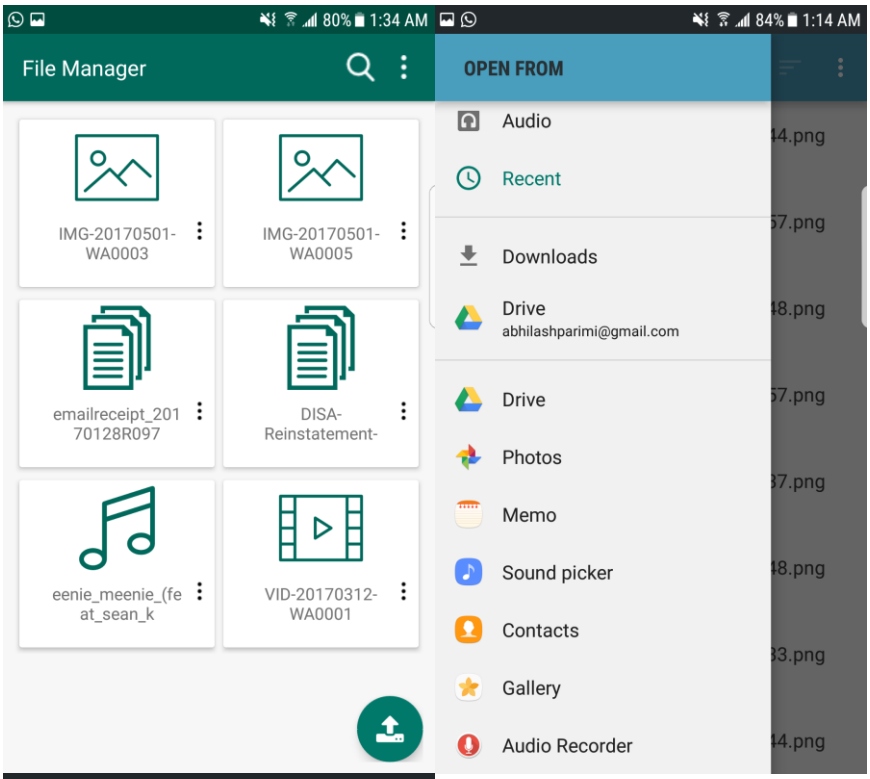
- THIS is the home page of the application with upload button on the right bottom

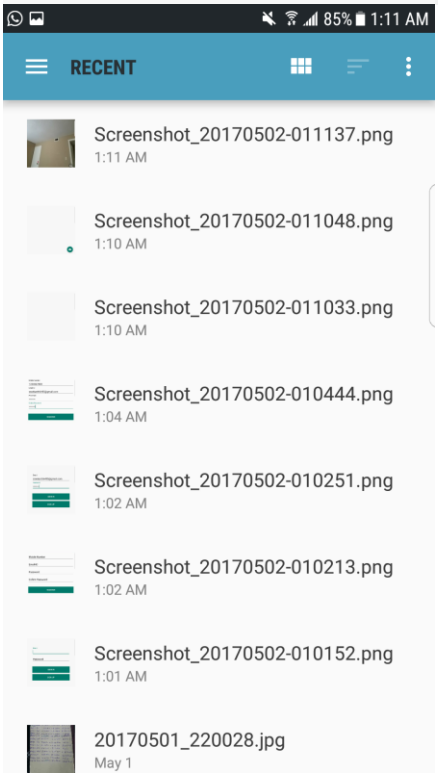


- The user can upload either by camera or by selecting the gallery

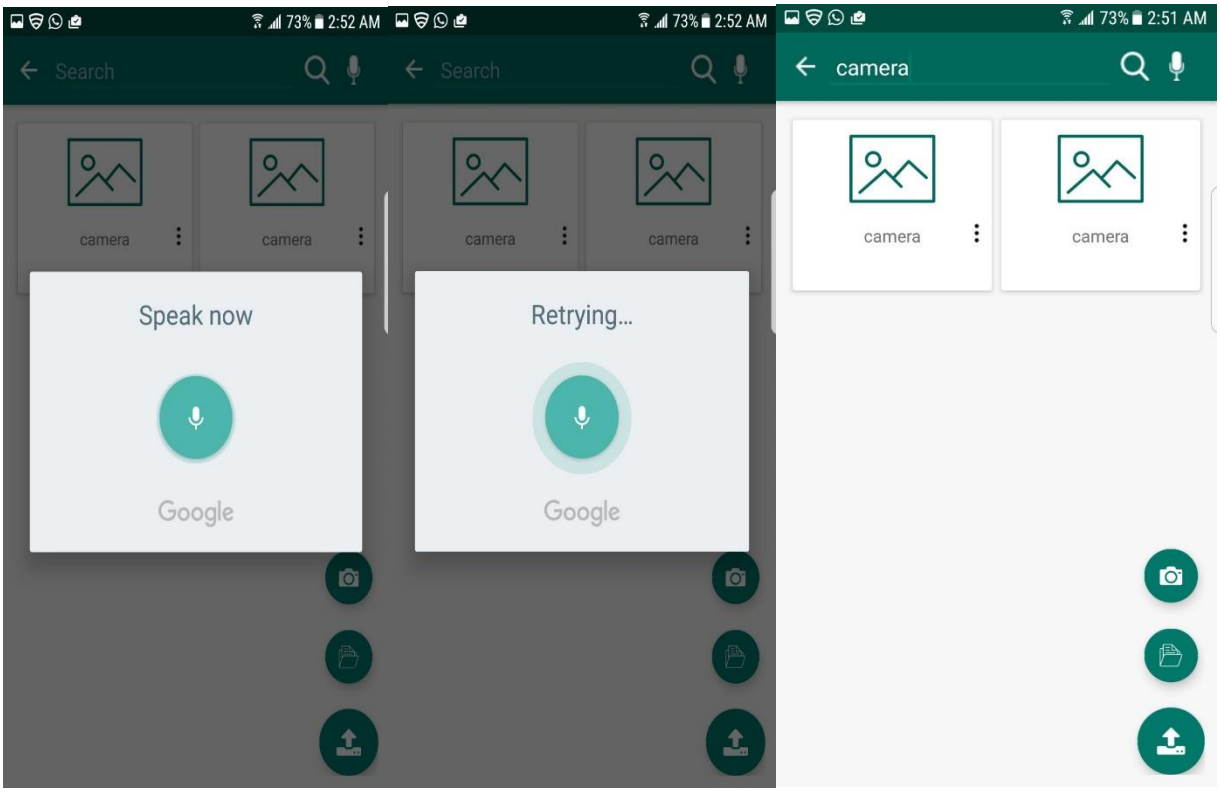


- All media and files are displayed to the user and he can upload any type of media of filee example : Photo , Video , Pdf's, Word docs , music files etc.

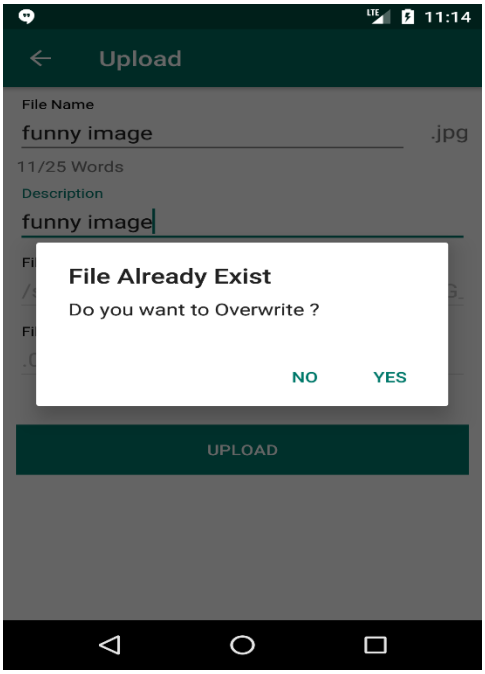




- When clicked on search your file the text to speech API is obtained



- DUPLICATION FEATURE



Test Cases

User Login/Registration: To begin with login, user need to register by filling up basic registration details. There are multiple fields in registration page and every field has to fill by user. User cannot use character in the login id field.

Admin Login: - Admin login id and password is kept compulsory fields, and if the admin id or password doesn't match then it will show an error message.

VALIDATION CRITERIA

1. In each form, no field which is not null able should be left blank.
2. All numeric fields should be checked for non-numeric values. Similarly, text fields like names should not contain any numeric characters.
3. All primary keys should be automatically generated to prevent the user from entering any existing key.
4. Use of error handling for each Save, Edit, delete and other important operations.
5. Whenever the user Tabs out or Enter from a text box, the data should be validated and if it is invalid, focus should again be sent to the text box with proper message.

ADVANTAGES OF PROJECT

- The application keeps the user files safe and secured.
- Application allows user to search a file over voice command.
- Maintains the files in a categorized and in a structured manner.
- It avoids the data duplication which prevents re-writing the similar file.

Disadvantages:

- Requires an active internet connection.
- Application may provide inaccurate results is data or voice command not recognized properly.

Features

1) Load Balancing:

Since the system will be available only the admin logs in the amount of load on server will be limited to time period of admin access.

2) Easy Accessibility:

Records can be easily accessed and store and other information respectively.

3) User Friendly:

The application will be giving a very user friendly approach for all user.

4) Efficient and reliable:

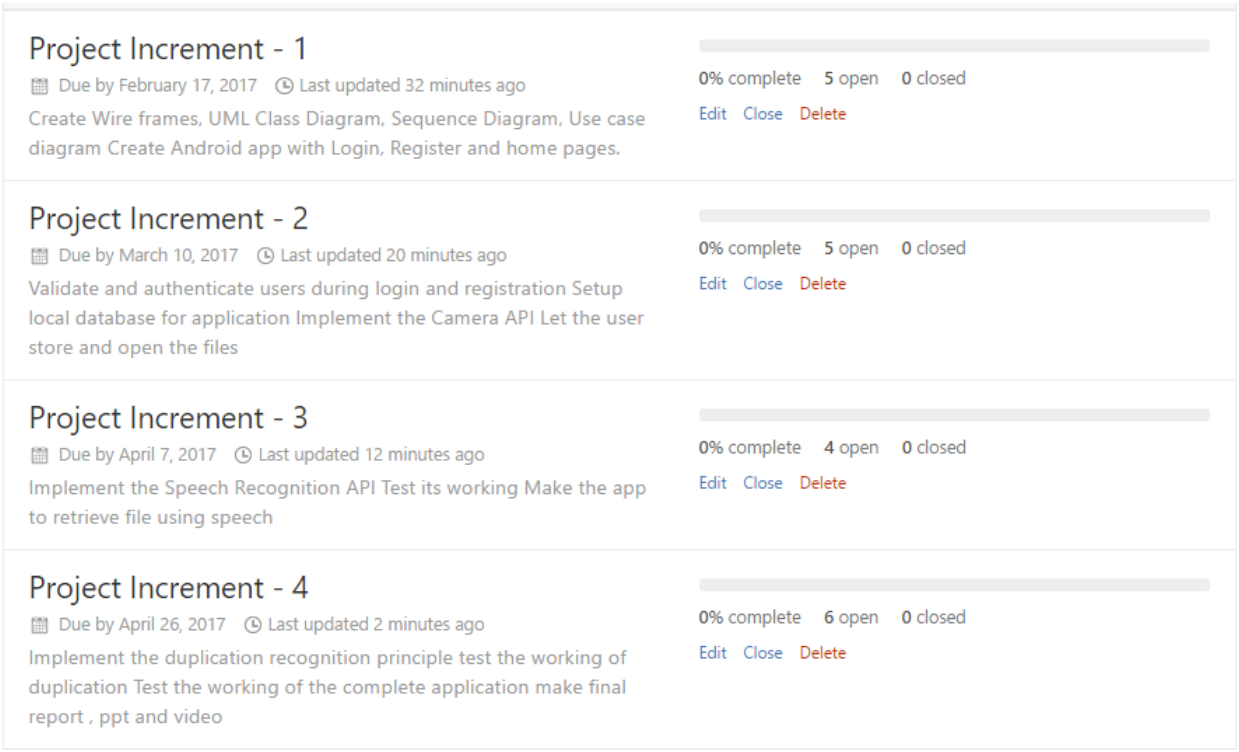
Maintaining the all secured and database on the server which will be accessible according the user requirement without any maintenance cost will be a very efficient as compared to storing all the customer data on the spreadsheet or in physically in the record books.

5) Easy maintenance:

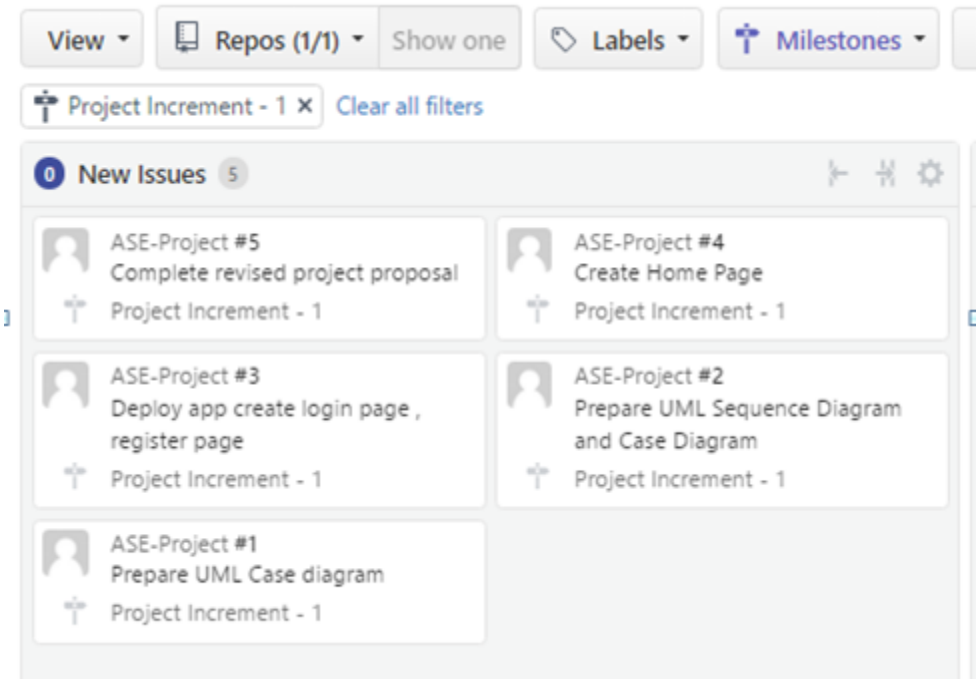
Android File Manager is design as easy way. So maintenance is also easy.

8.PROJECT MANAGEMENT

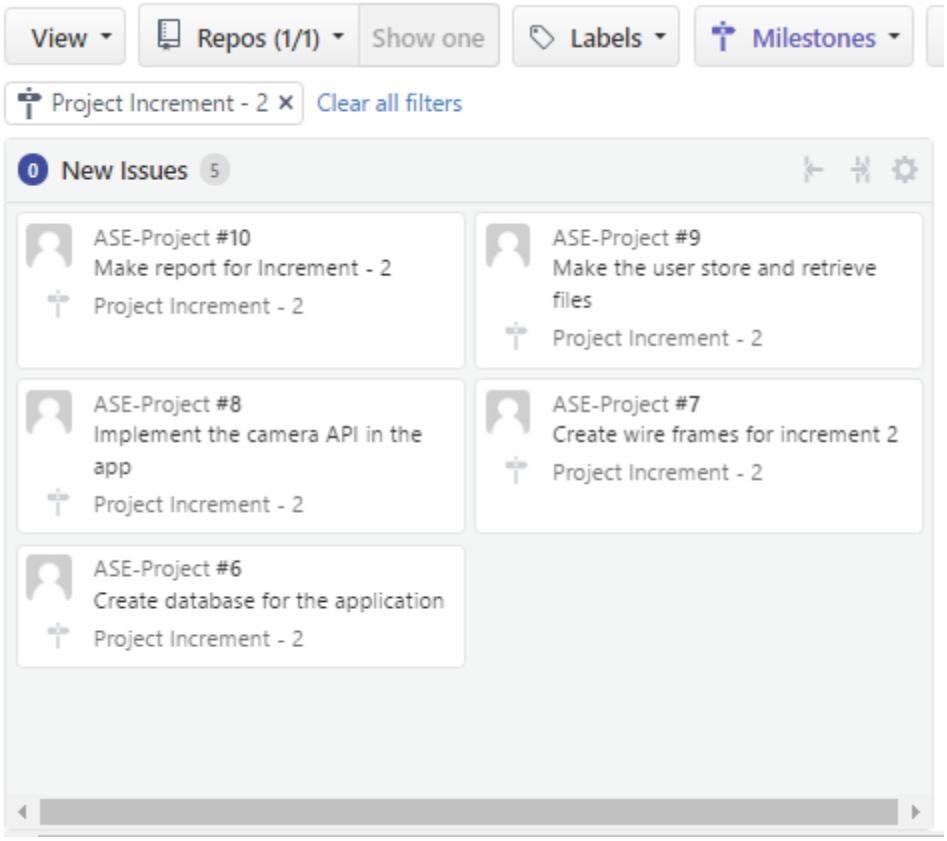
❖ Schedule for four different implementations.



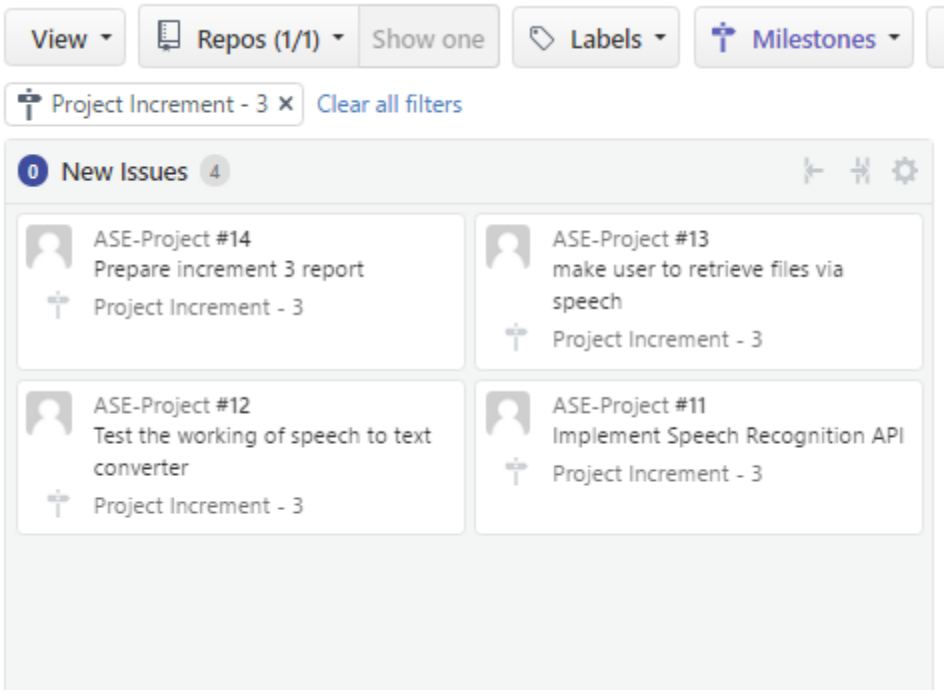
❖ Issues for increment 1



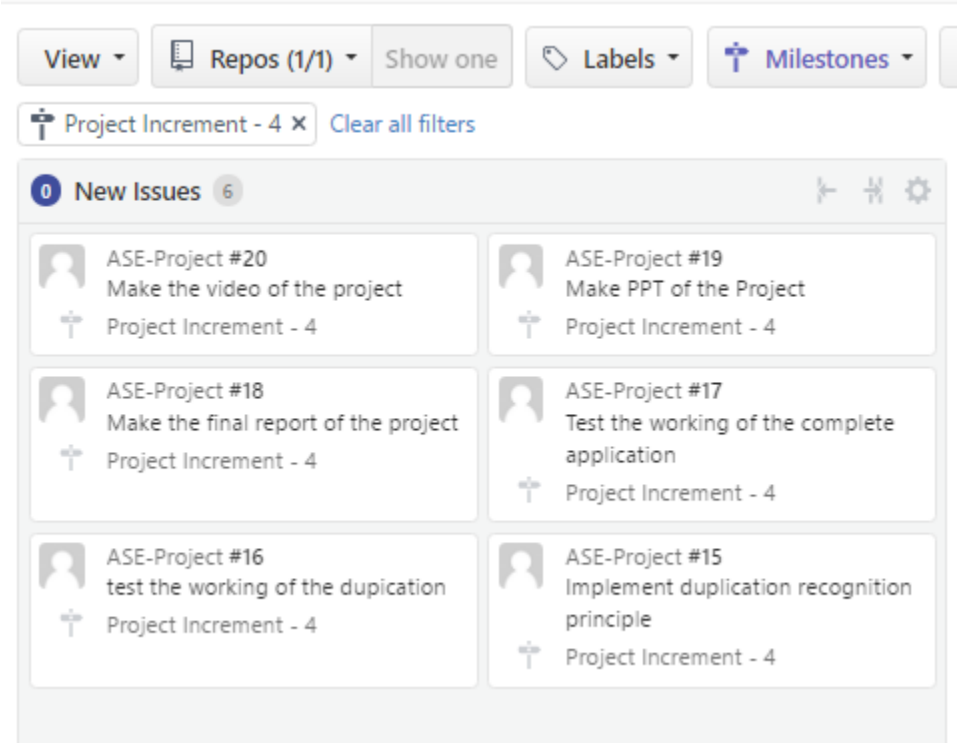
❖ Issues for increment 2



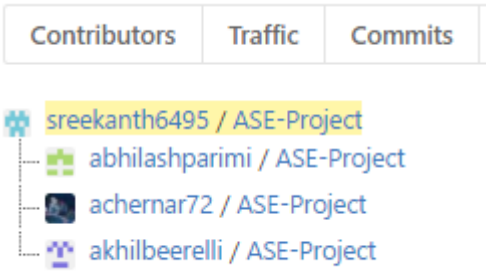
❖ Issues for increment 3



❖ Issues for increment 4



❖ Team members



➢ Responsibilities Increment-1

- Introduction & Revised project proposal : Sreekanth & Avinash
- Project planning : Sreekanth & Abhilash
- UML Diagrams, Case Diagrams : Akhil & Abhilash
- App Deployment:
  Login page : Avinash & Akhil
  Registration Page : Avinash & Abhilash
  Forgot password and home page : Sreekanth & Akhil
- First Increment Report : Sreekanth, Avinash, Akhil, Abhilash

¬ Responsibilities Increment-2 :

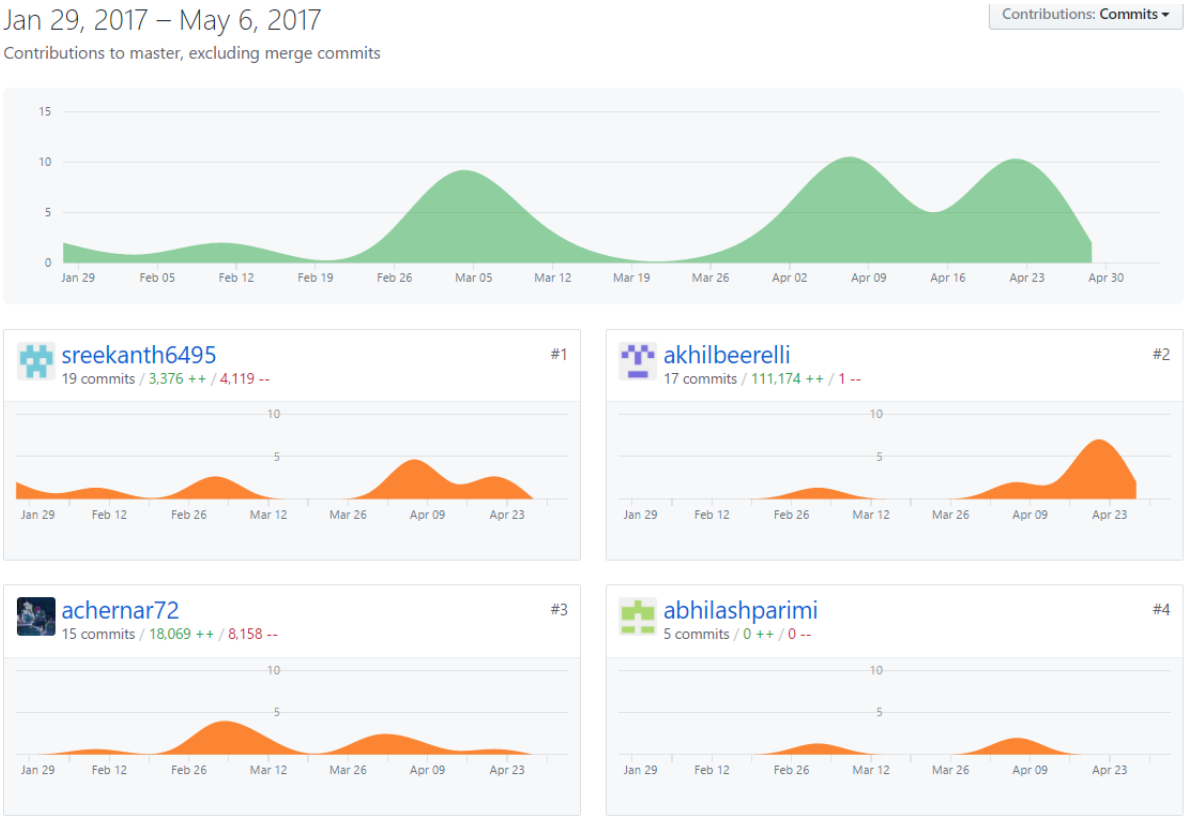
UML Diagrams, Case Diagrams : Akhil & Abhilash ¬
App Deployment: Database : Avinash & Sreekanth
Camera API : Akhil & Abhilash
Second Increment Report : Sreekanth, Avinash, Akhil, Abhilash

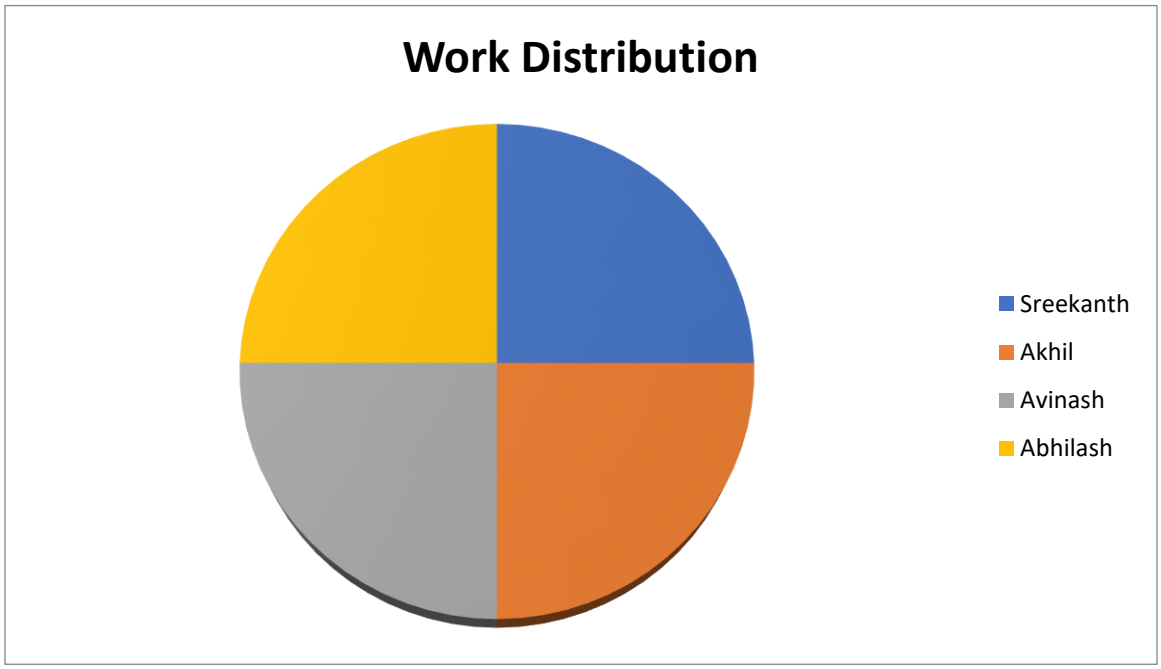
Responsibilities Increment-3 :

Speech API : Sreekanth & Avinash
Duplication : Akhil & Abhilash
Third Increment Report : Sreekanth, Avinash, Akhil, Abhilash

Responsibilities Increment-4 :

Changes in final application : Sreekanth & Avinash
Duplication : Akhil & Abhilash
Fourth Increment Report : Sreekanth, Avinash, Akhil, Abhilash


Jan 29, 2017 – May 6, 2017
Contributions to master, excluding merge commits
Contributions: Commits
15
10
5
0
Jan 29
Feb 05
Feb 12
Feb 19
Feb 26
Mar 05
Mar 12
Mar 19
Mar 26
Apr 02
Apr 09
Apr 16
Apr 23
Apr 30
sreekanth6495
#1
19 commits / 3,376 ++ / 4,119 --
akhilbeerelli
#2
17 commits / 111,174 ++ / 1 --
achernar72
#3
15 commits / 18,069 ++ / 8,158 --
abhilashparimi
#4
5 commits / 0 ++ / 0 --


Work Distribution
Sreekanth
Akhil
Avinash
Abhilash

9.PROJECT LINKS

PRESENTATION:

https://drive.google.com/file/d/0B1uDNBReTnJuVmZXVWlaZXN5TUk/view?usp=sharing

YOUTUBE VIDEO:

https://youtu.be/vqLV-dYMPfM

GITHUB LINK :

https://github.com/sreekanth6495/ASE-Project/

10. REFERENCES:

- ✓ en.wikipedia.org
- ✓ http://www.androidcentral.com/best-android-file-managers
- ✓ http://www.pcworld.com/article/2905420/the-file-manager-that-android-forgot-how-to-find-photos-and-other-data-on-your-device.html
- ✓ http://www.androidauthority.com/file-manager-explorer-apps-android-279800/