

FINAL Report of Unique FOlder app (UFO)



Team #18

- Sreekanth Bhamidipati - 5
- 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.

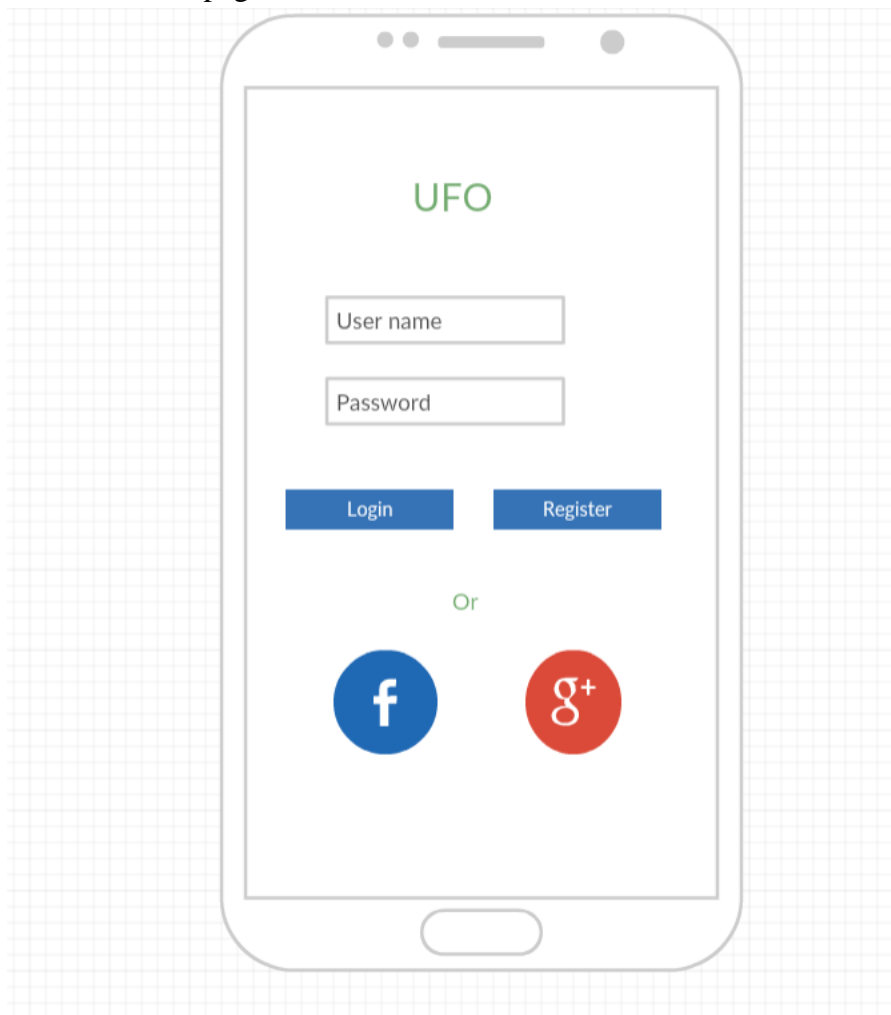
3 First Increment Report

❖ Existing services / REST API

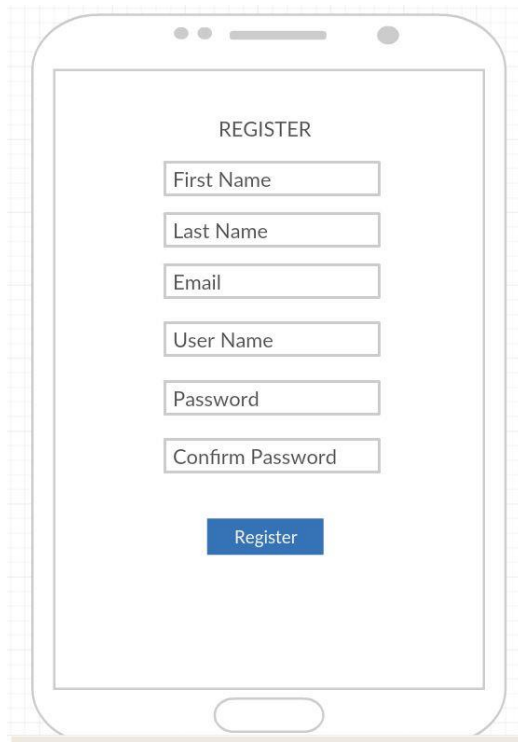
Did not use any API's in the first increment but will be using Camera API and Speech Recognition API.

❖ Design Details

- Wire frames
 - This is the first page

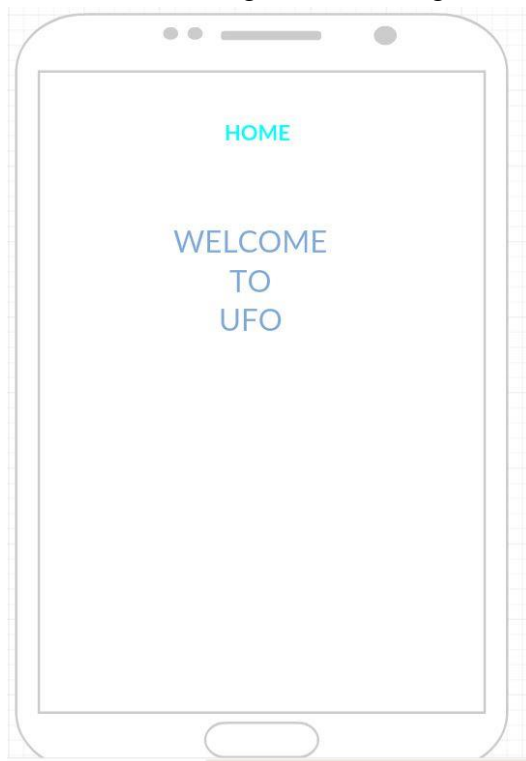


- This is the registration page

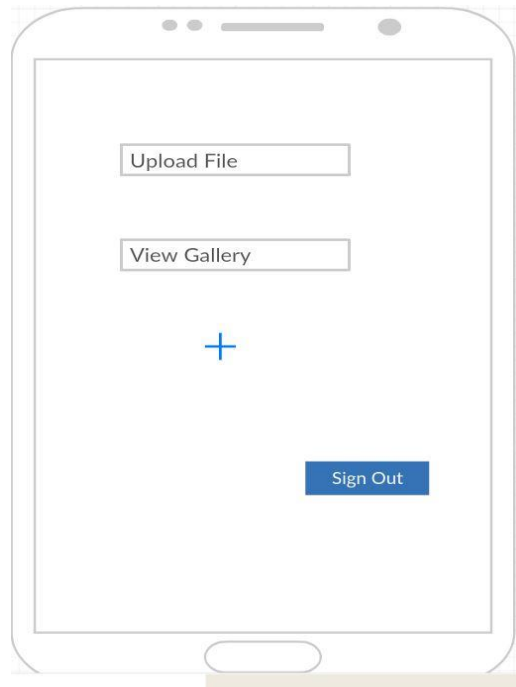


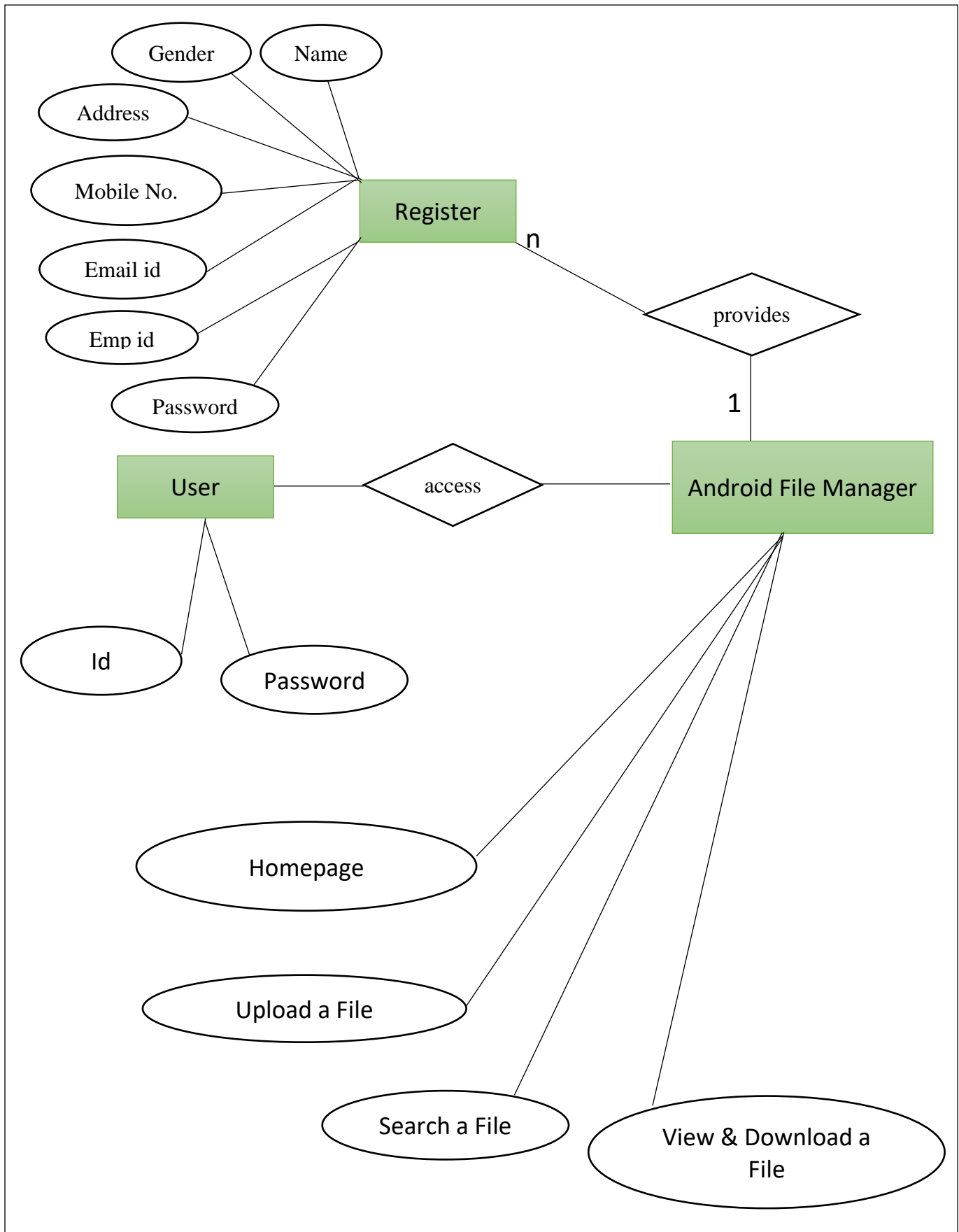
A wireframe of a mobile application registration screen. The screen is titled "REGISTER" in a bold, sans-serif font. Below the title are six input fields, each with a placeholder label: "First Name", "Last Name", "Email", "User Name", "Password", and "Confirm Password". The fields are arranged vertically and are rectangular with rounded corners. Below the input fields is a blue button with the text "Register" in white. The entire screen is framed by a light gray border, and the background is a light gray grid.

- 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

Use Case Diagram

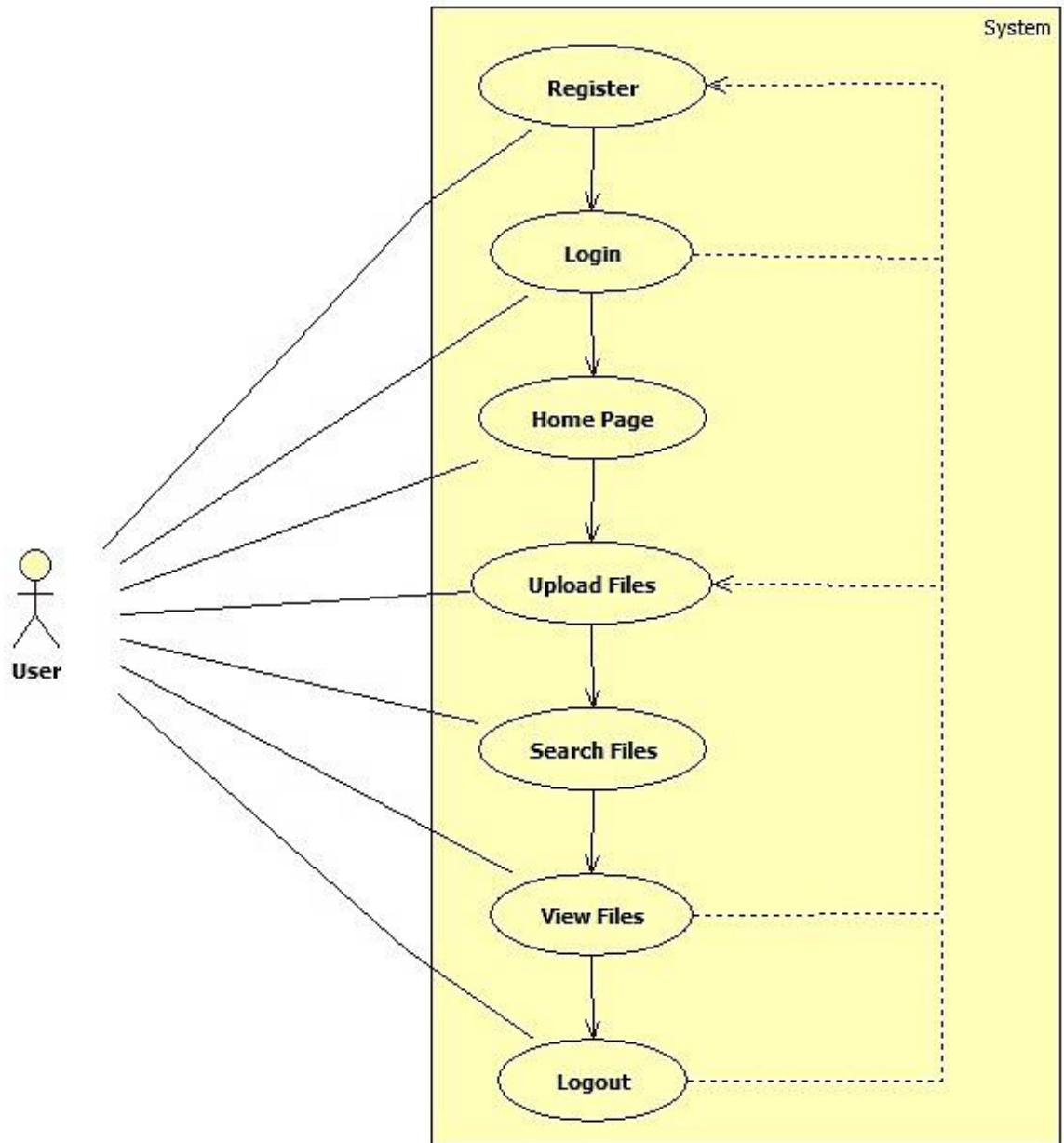


Fig. Use Case Diagram of User

Sequence Diagram

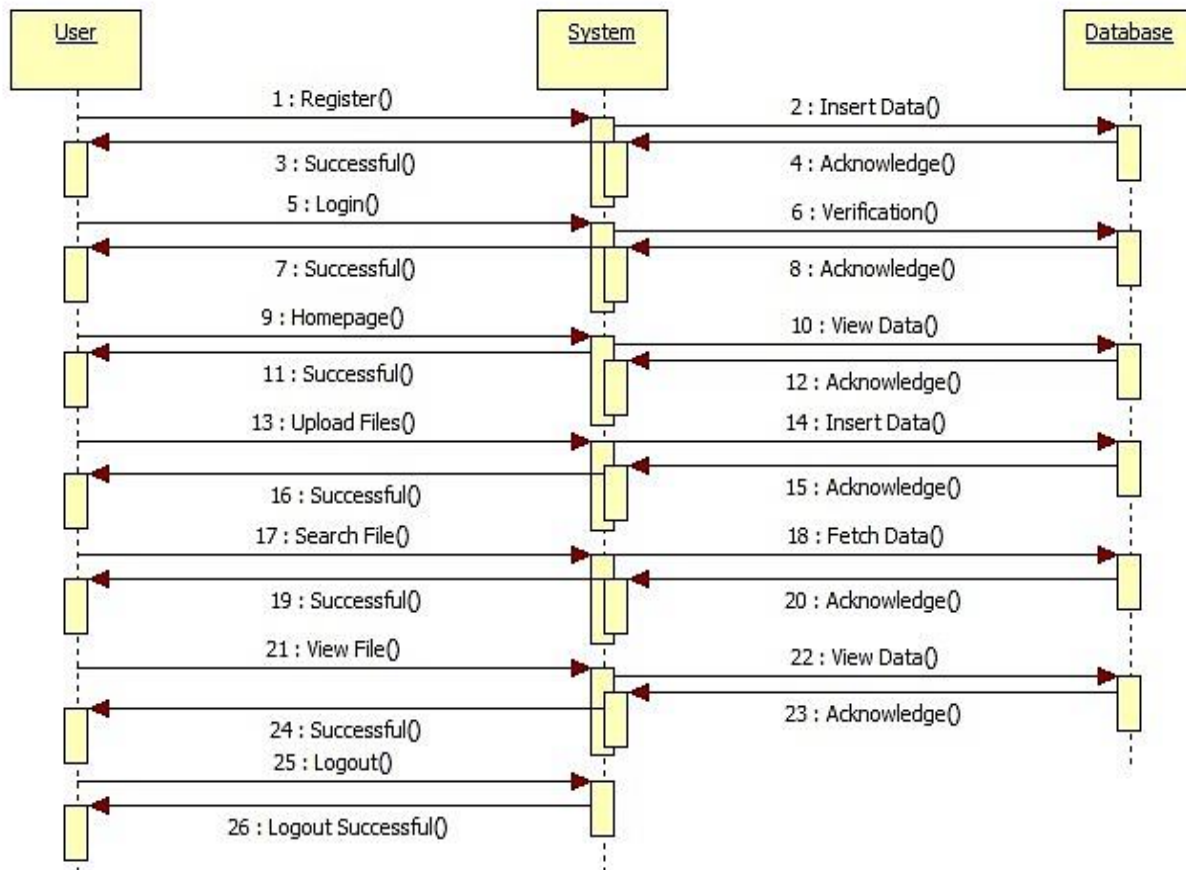


Fig. Sequence Diagram of User

Activity Diagram

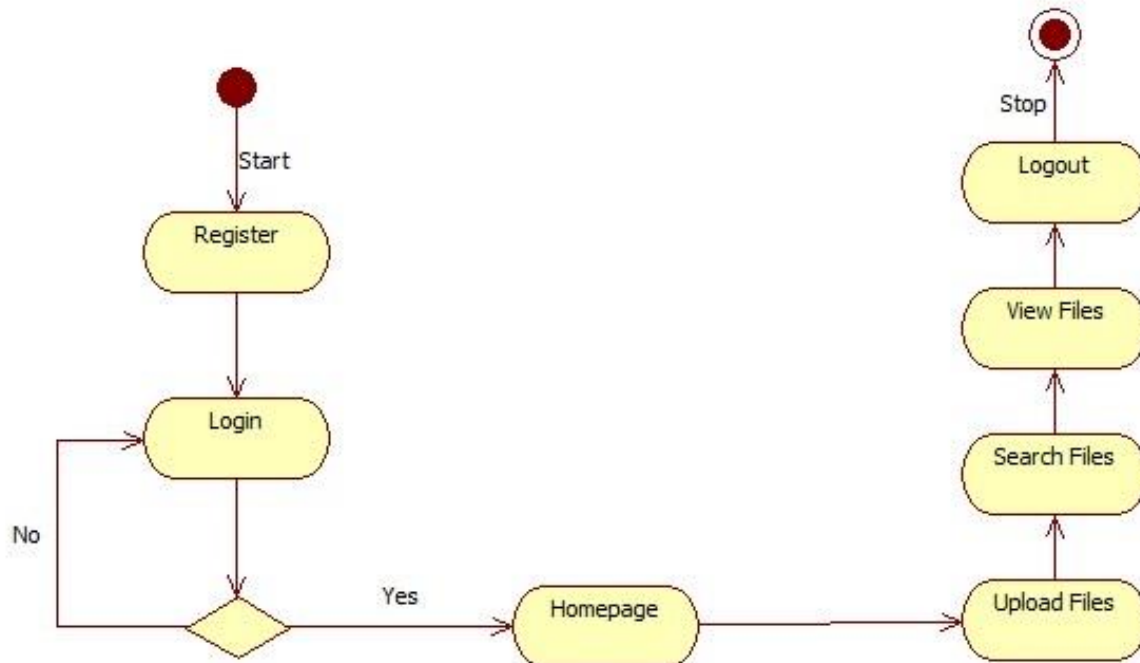
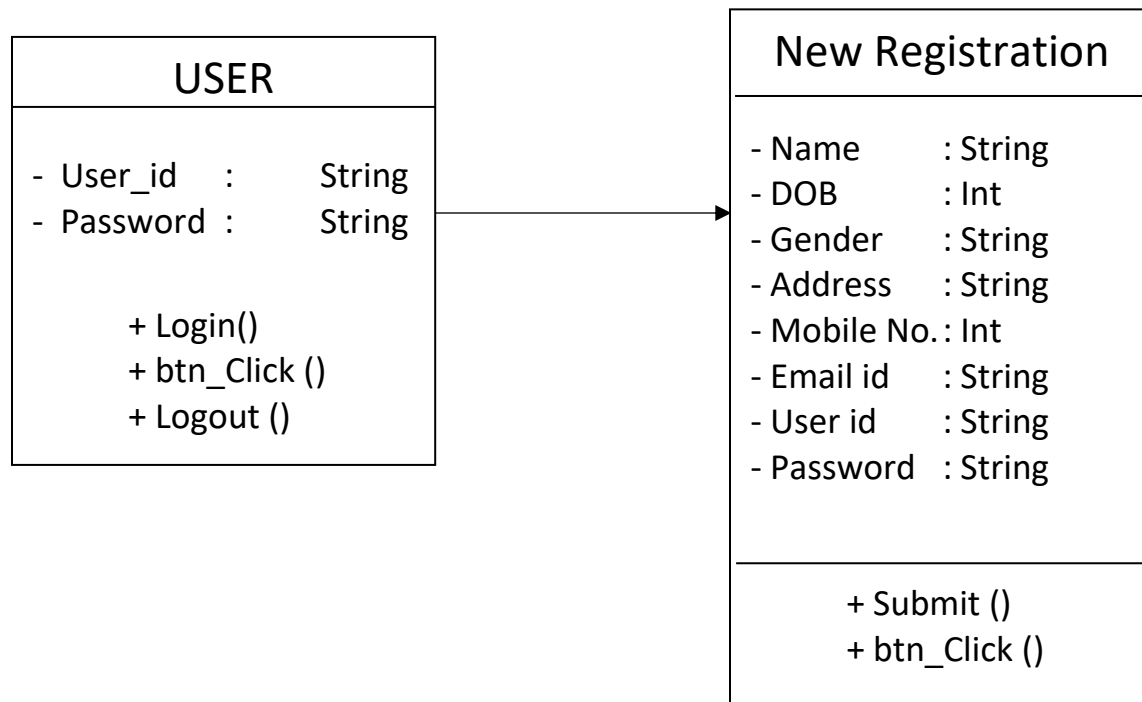
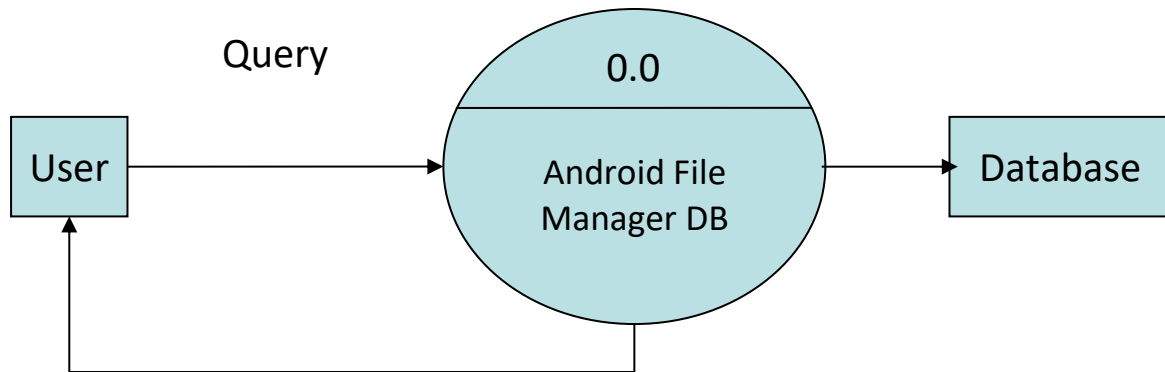
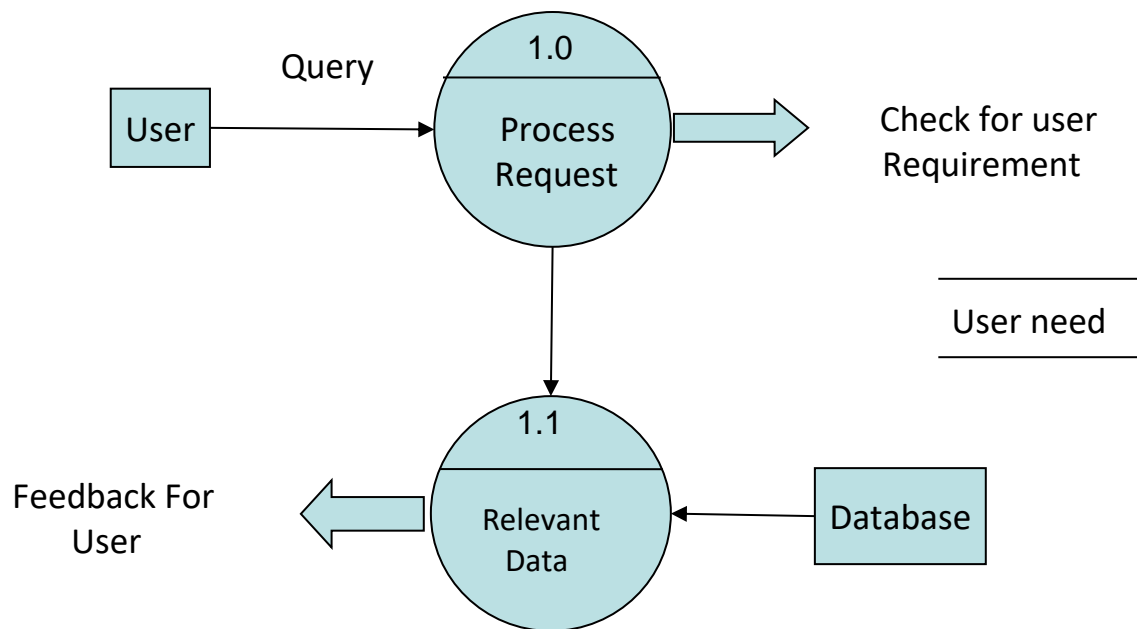
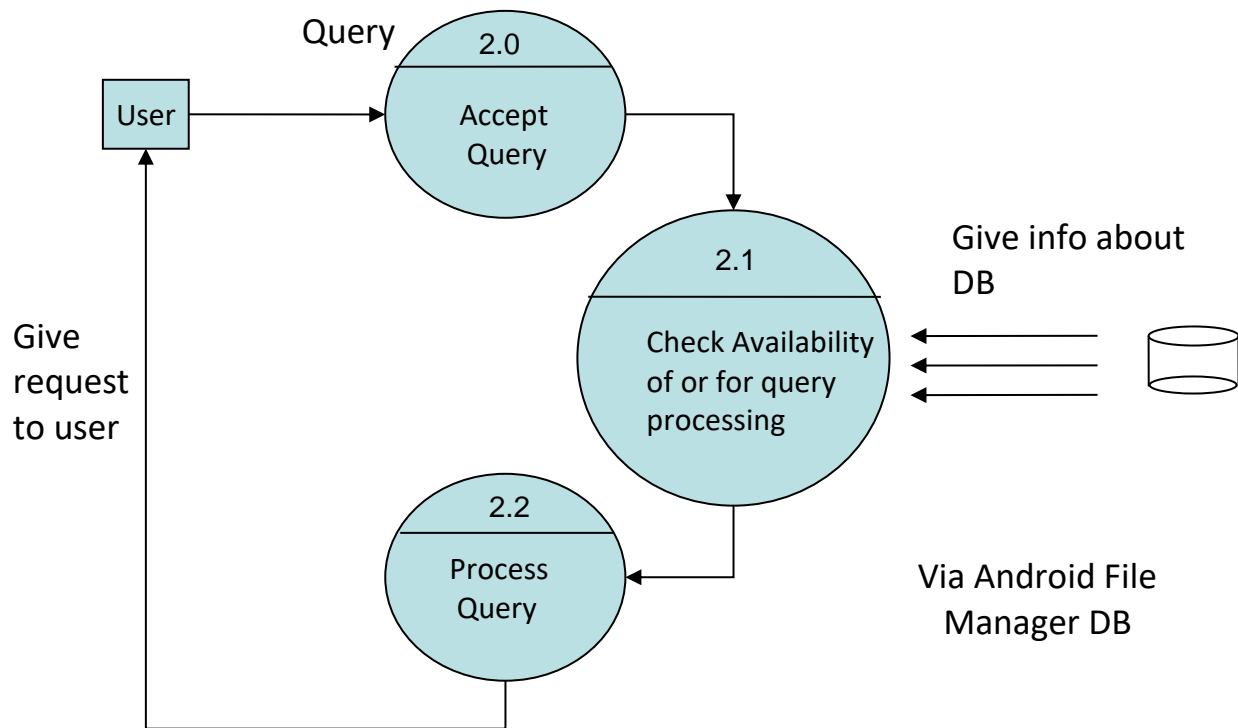


Fig. Activity Diagram of User

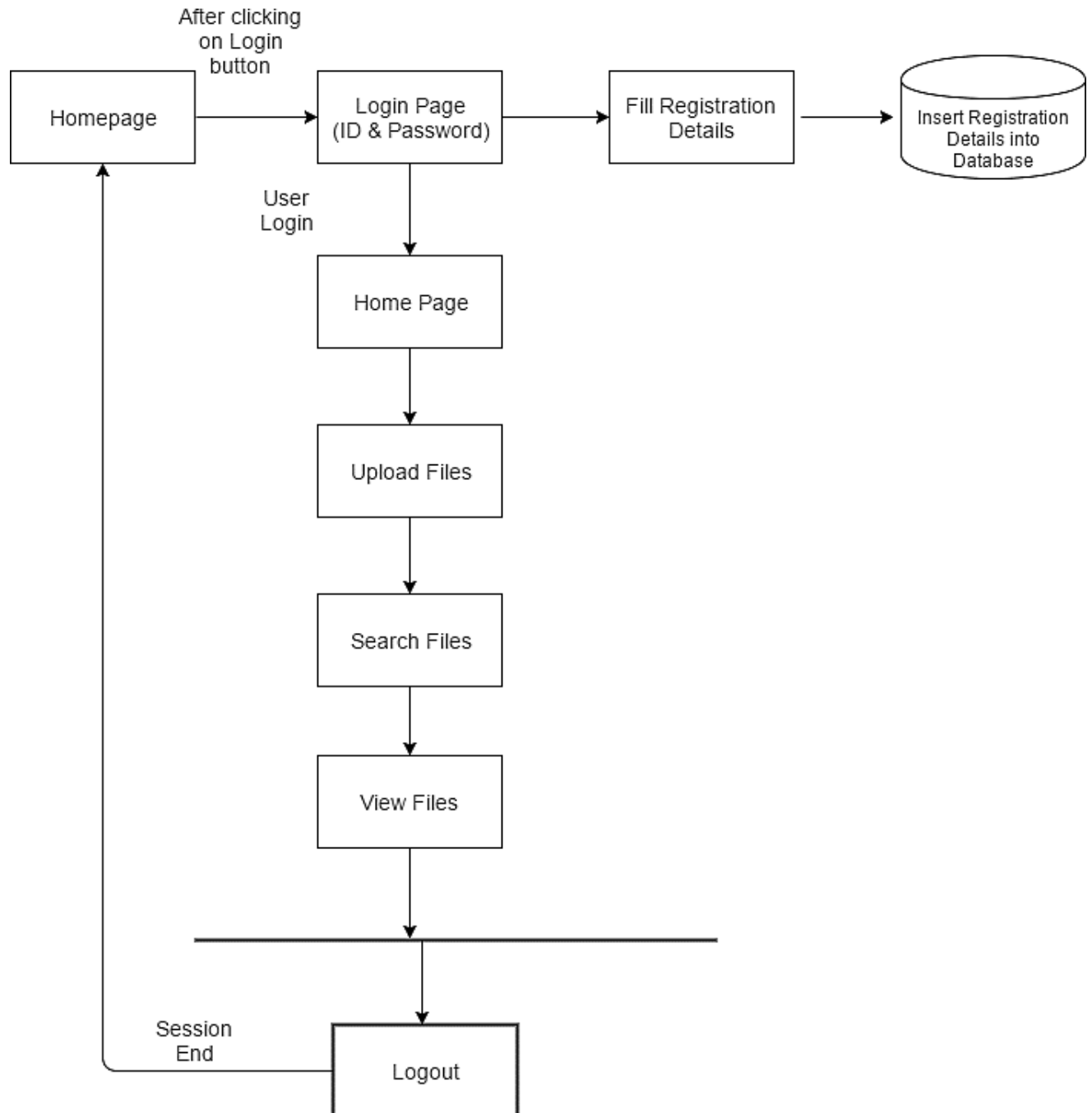
Class Diagram

Data Flow DiagramsDATABASE DETAIL

LEVEL 1 DFD

LEVEL 2 DFD: PREDICTION

System Architecture

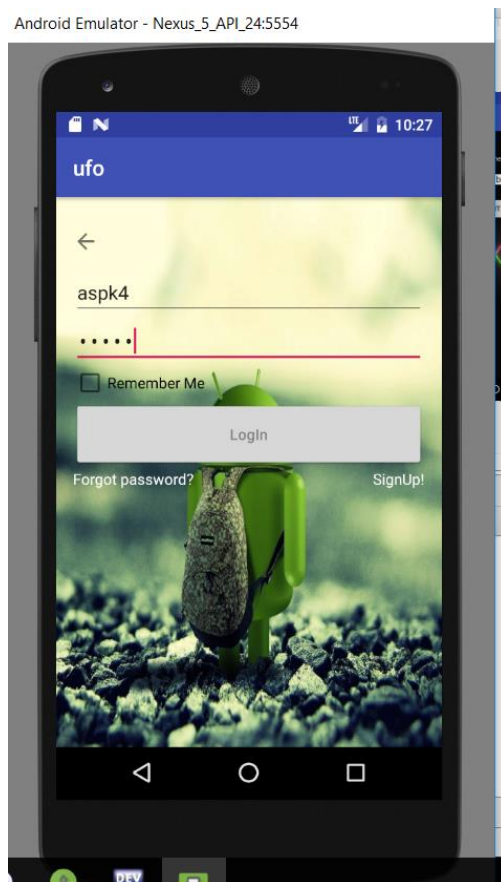


❖ Implementation :

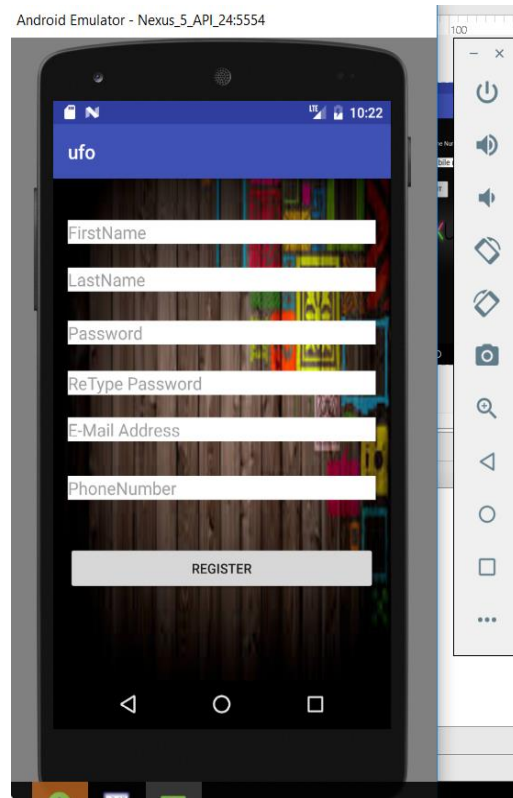
Use of Android Studio to deploy an android app in an android mobile.

❖ Deployment :

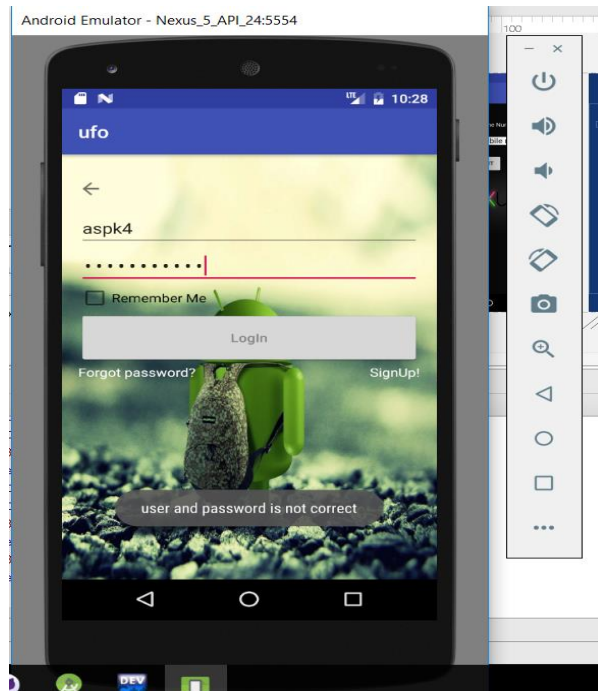
- This is the first page or the login page of the app



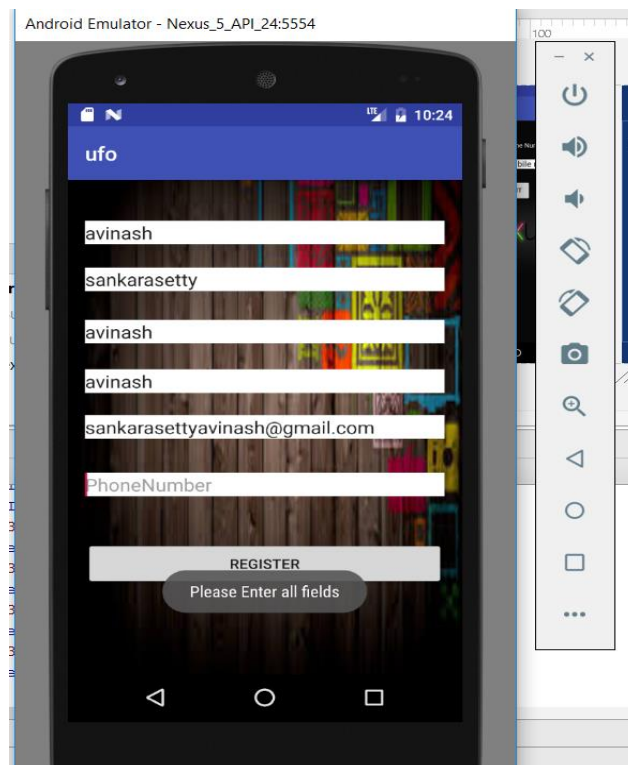
- This is the registration page



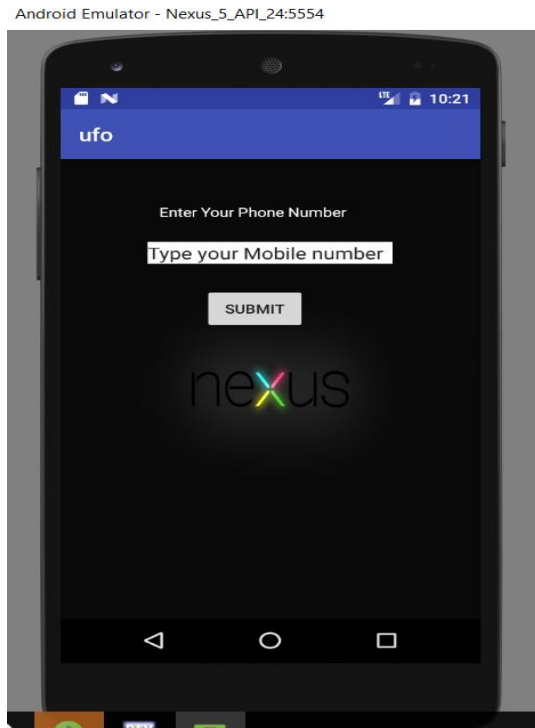
- When the entered password is wrong then this will be displayed



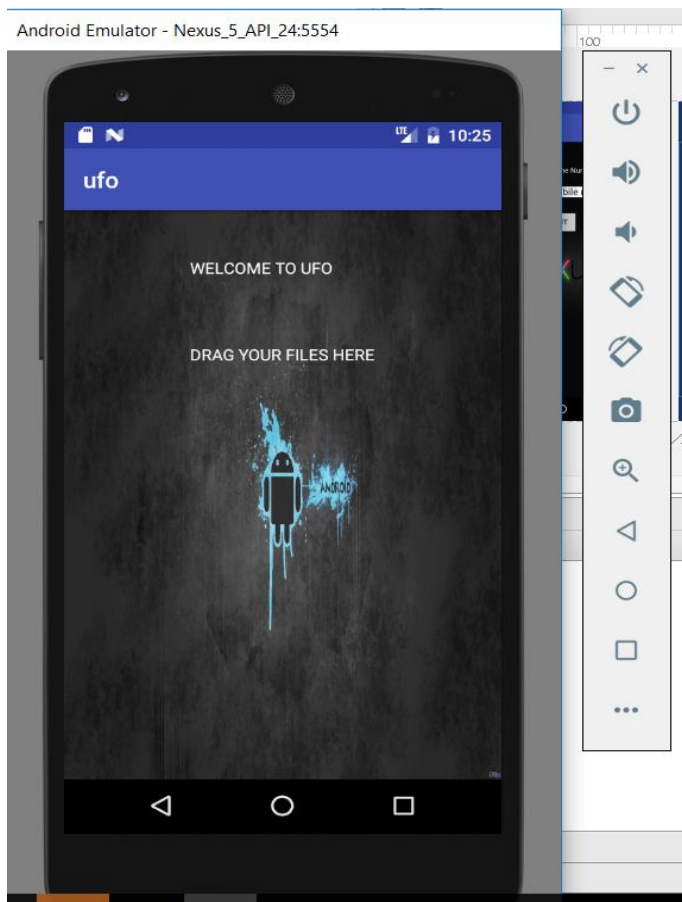
- If the user did not enter all the details then this will be displayed



- 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



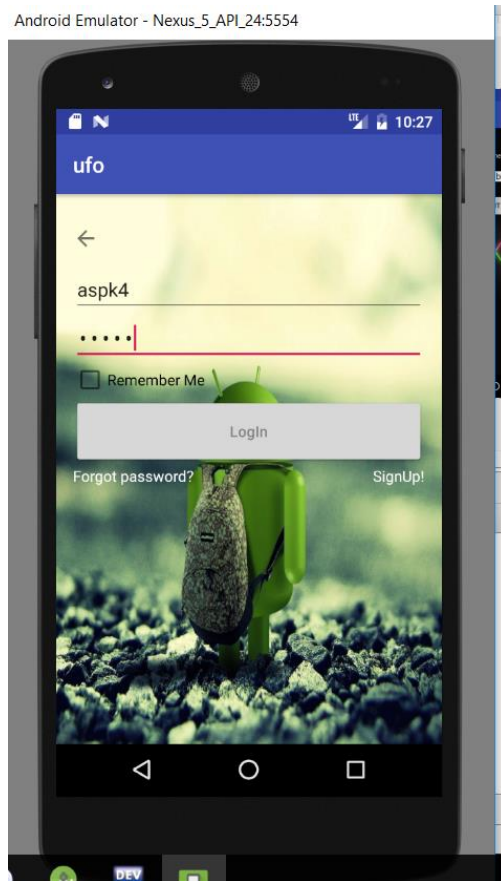
4.SECOND INCREMENT REPORT

❖ Implementation :

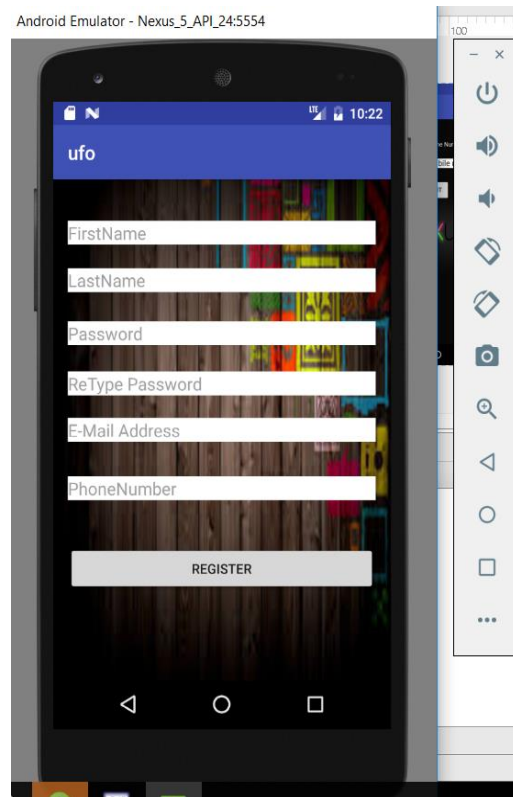
Use of Android Studio to deploy an android app in an android mobile.

❖ Deployment :

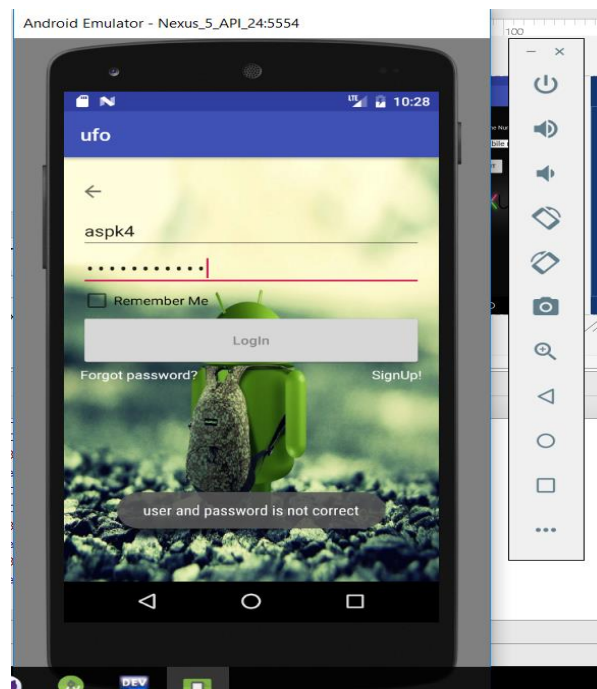
- This is the first page or the login page of the app



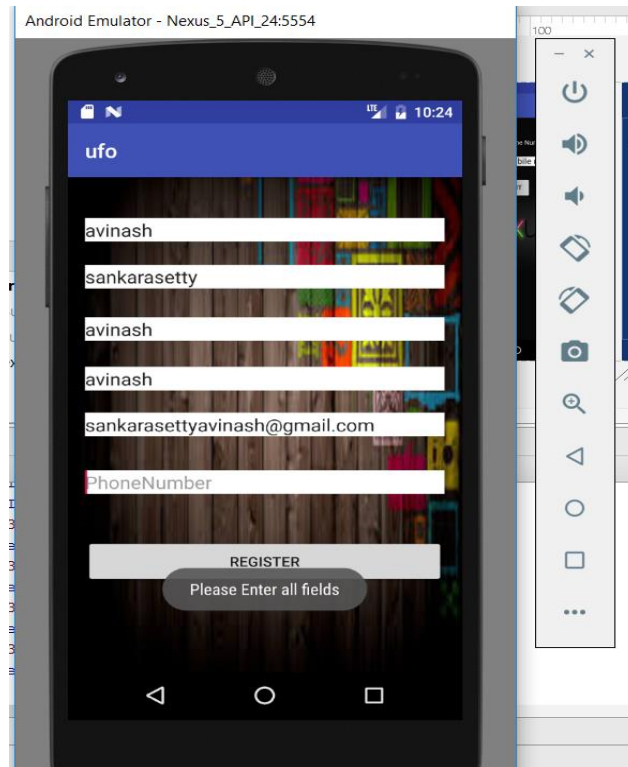
- This is the registration page



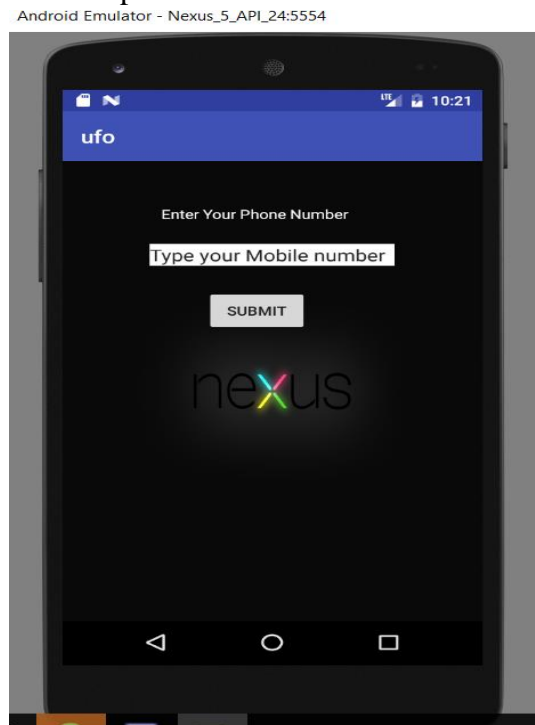
- When the entered password is wrong then this will be displayed



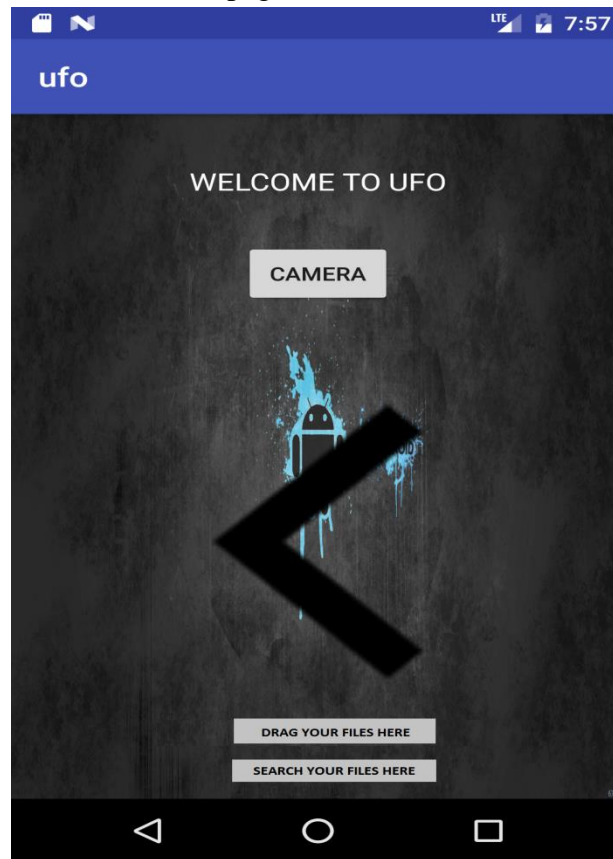
- If the user did not enter all the details then this will be displayed



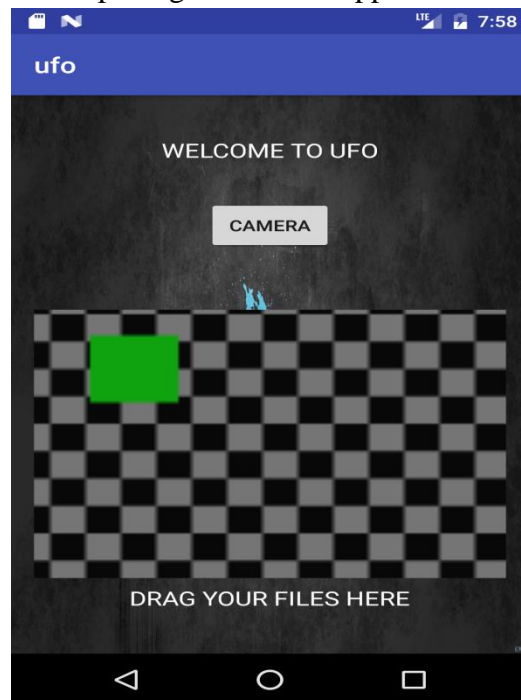
- Incase the user forgets the password a link will be sent to his mobile number to reset the password



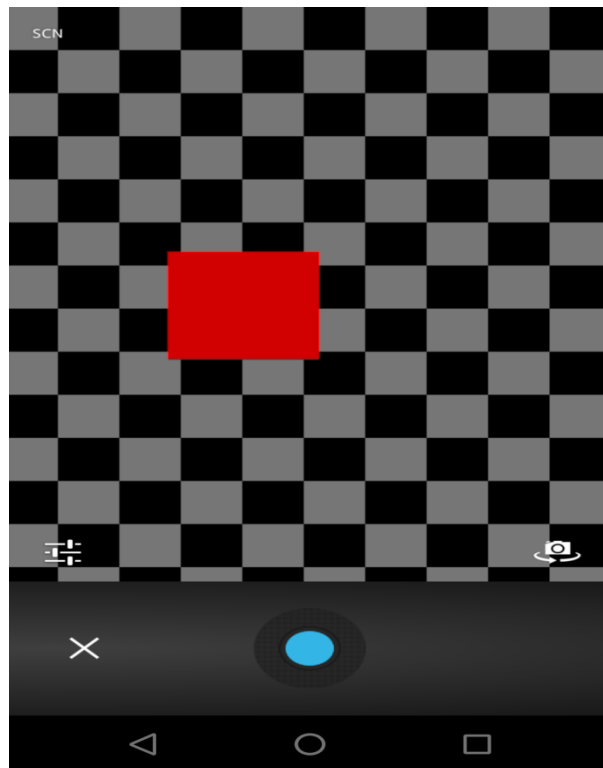
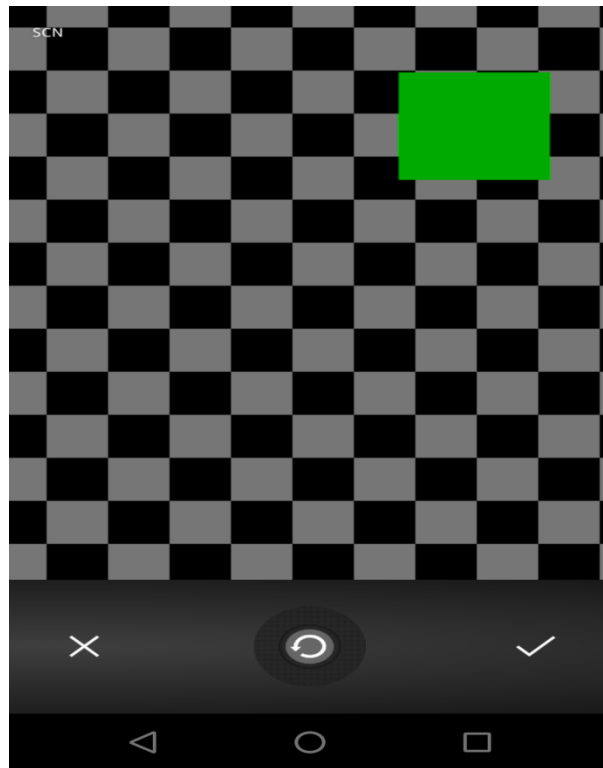
- This is the home page of the UFO after successful login or successful registration.



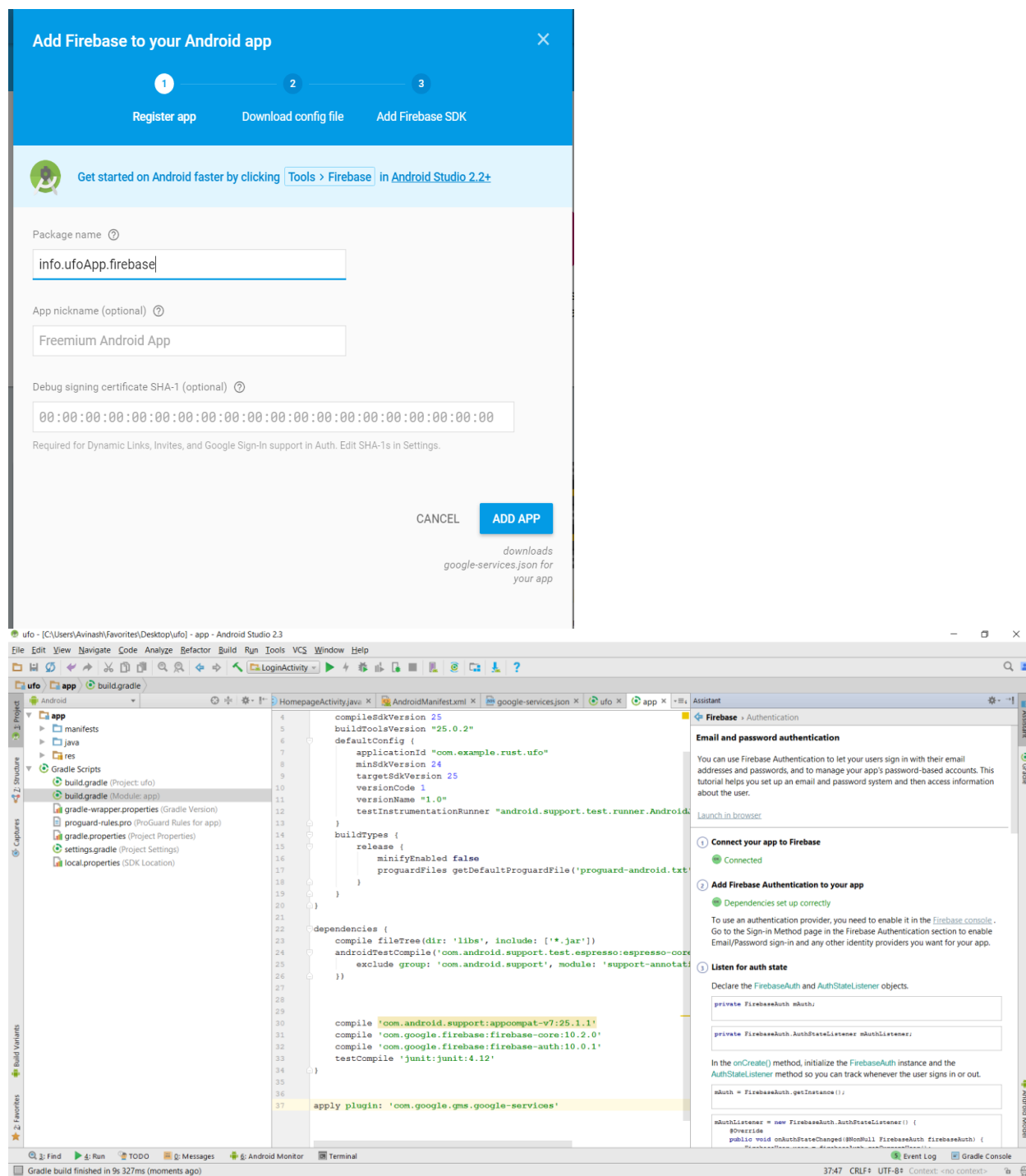
- After opening the camera app this is the screenshot.



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



❖ Creation of database



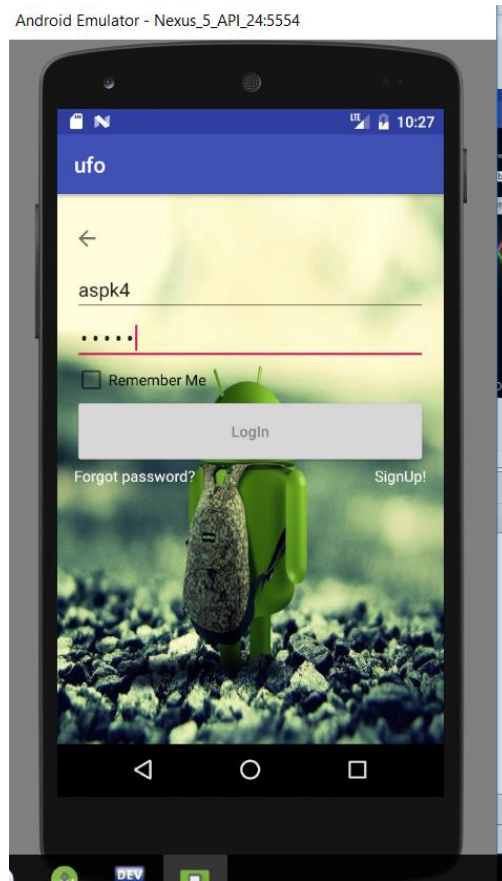
5.INCREMENT THREE REPORT

❖ Implementation :

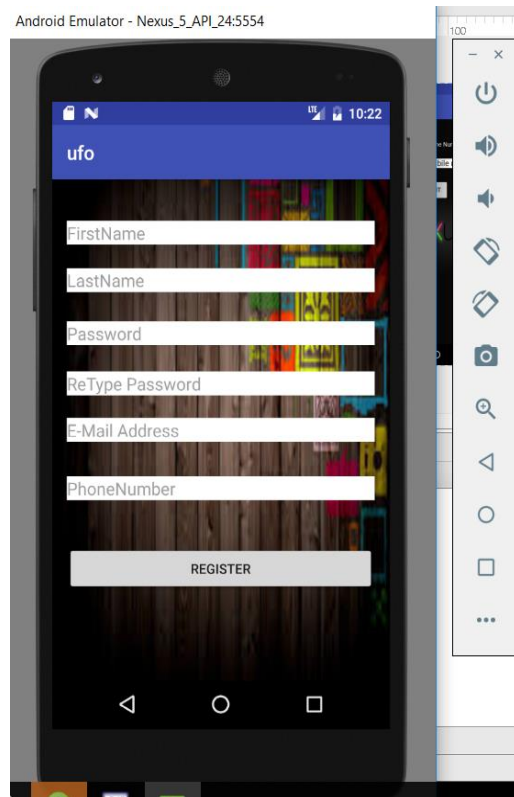
Use of Android Studio to deploy an android app in an android mobile.

❖ Deployment :

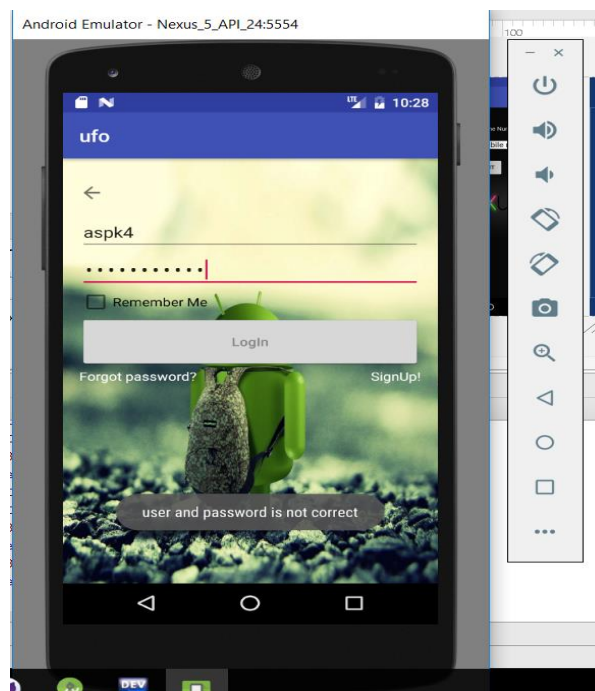
- This is the first page or the login page of the app



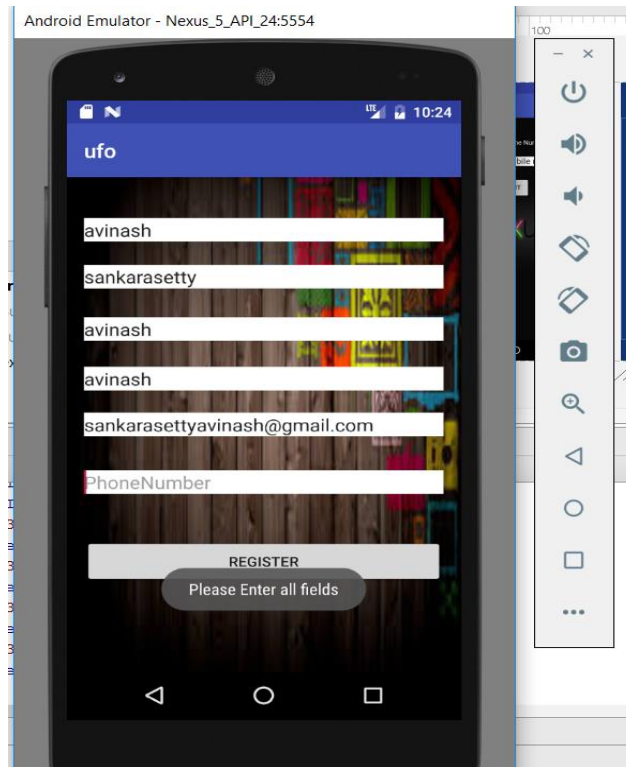
- This is the registration page



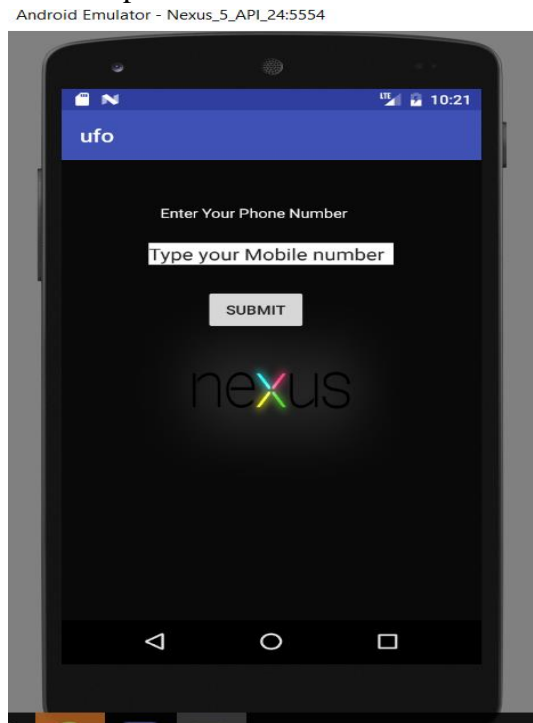
- When the entered password is wrong then this will be displayed



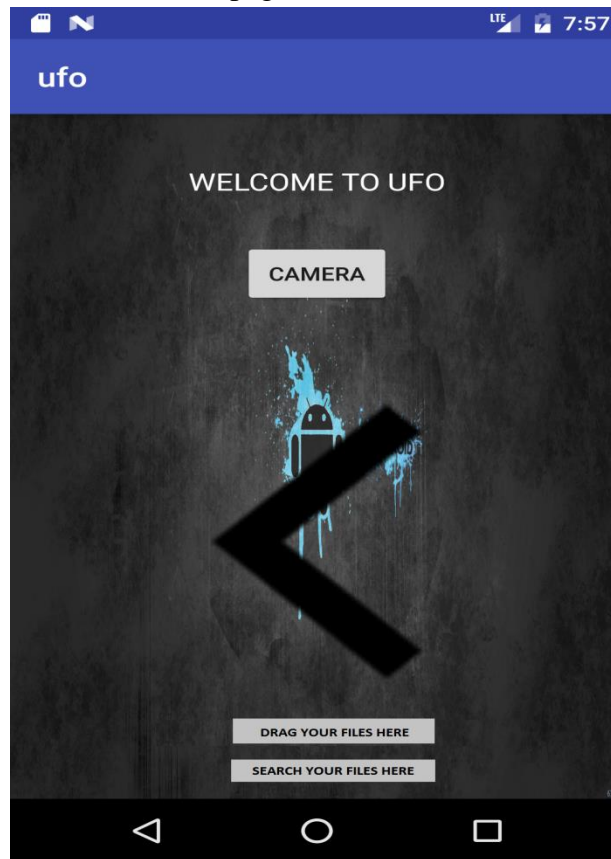
- If the user did not enter all the details then this will be displayed



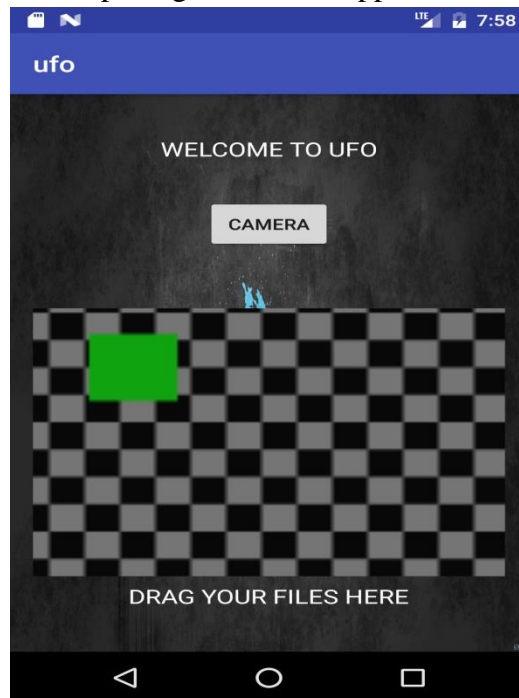
- Incase the user forgets the password a link will be sent to his mobile number to reset the password



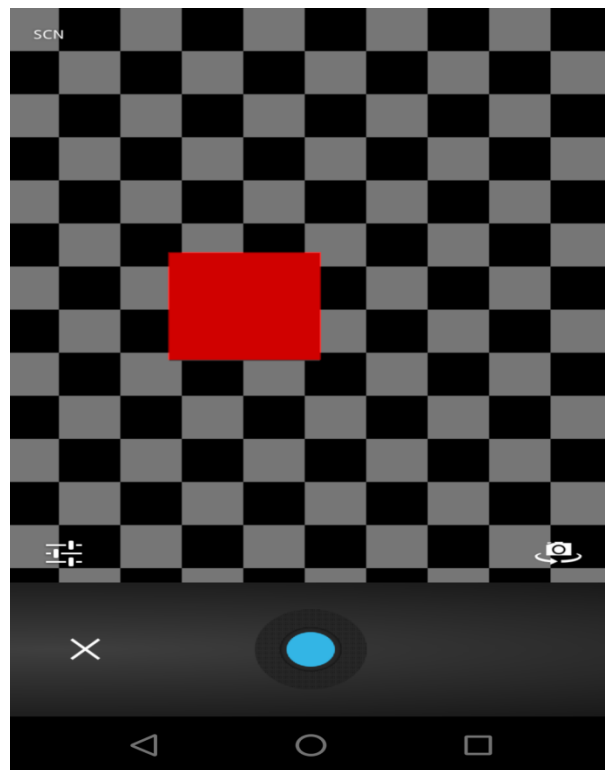
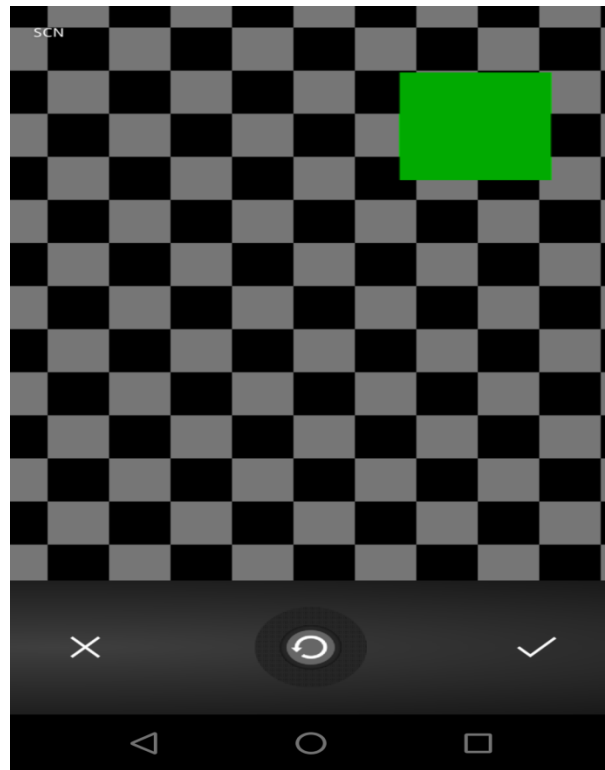
- This is the home page of the UFO after successful login or successful registration.



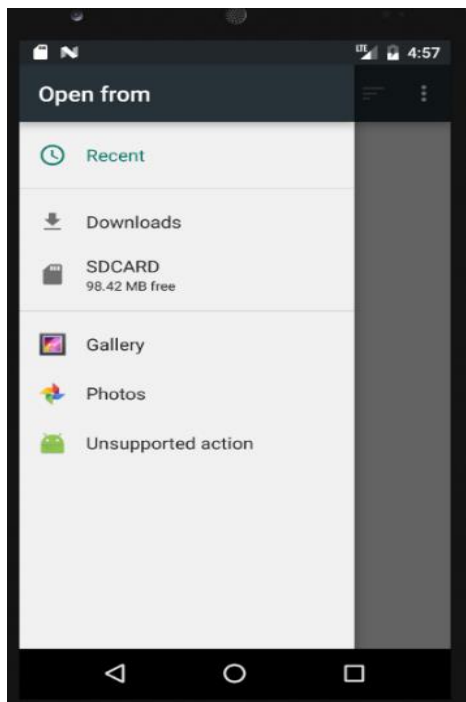
- After opening the camera app this is the screenshot.



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



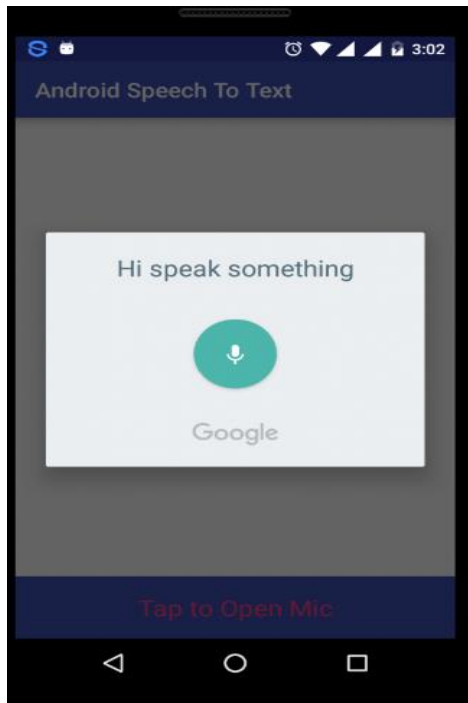
❖ When clicked on drag your files



- ❖ Then clicking on gallery we can select the required file



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



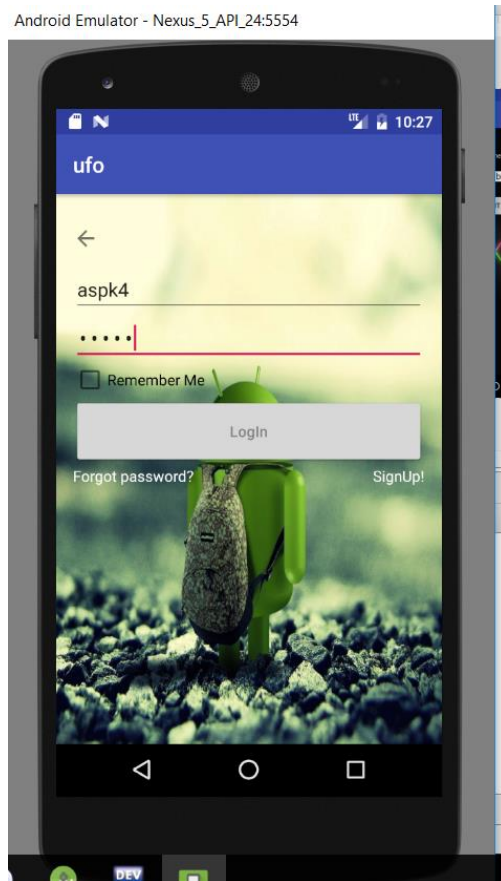
6.INCREMENT FOUR REPORT

❖ Implementation :

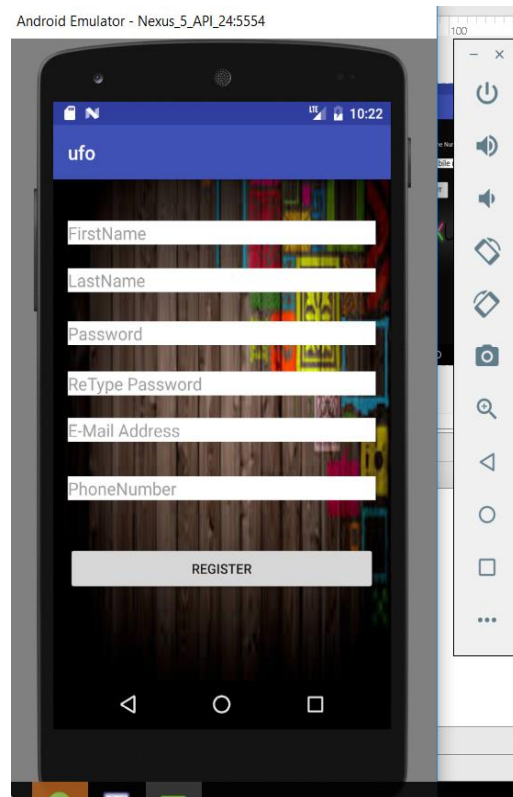
Use of Android Studio to deploy an android app in an android mobile.

❖ Deployment :

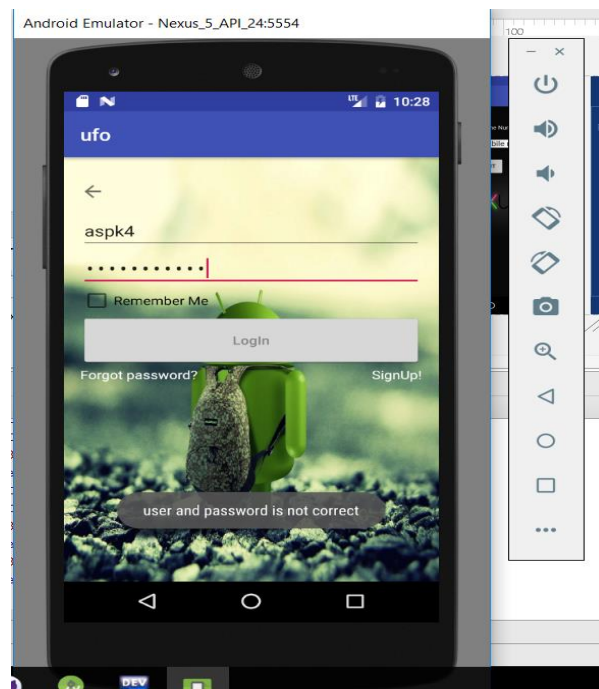
- This is the first page or the login page of the app



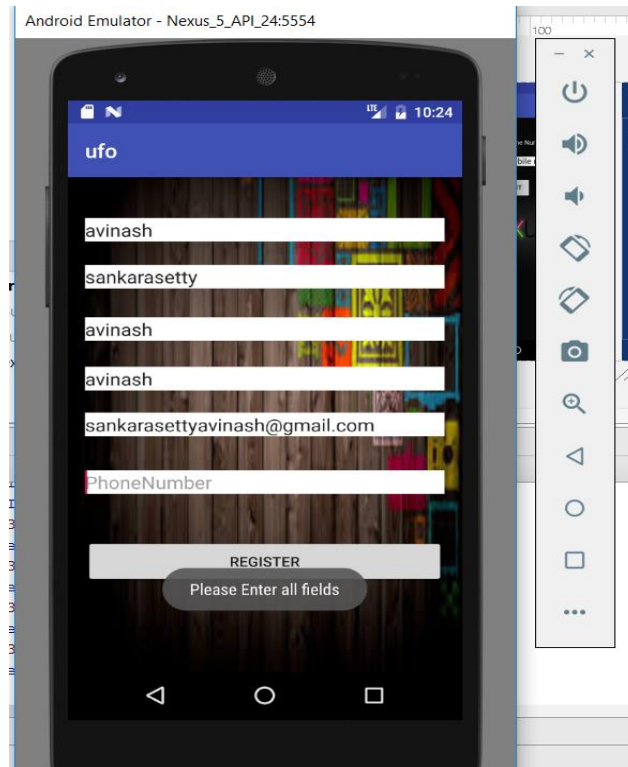
- This is the registration page



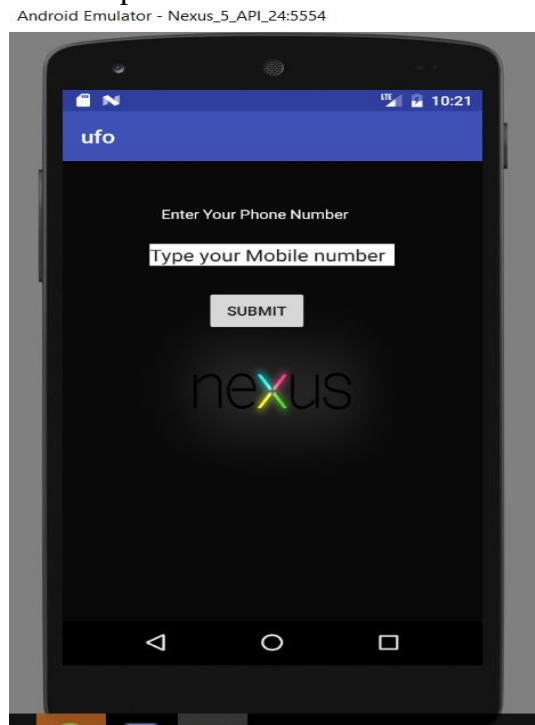
- When the entered password is wrong then this will be displayed



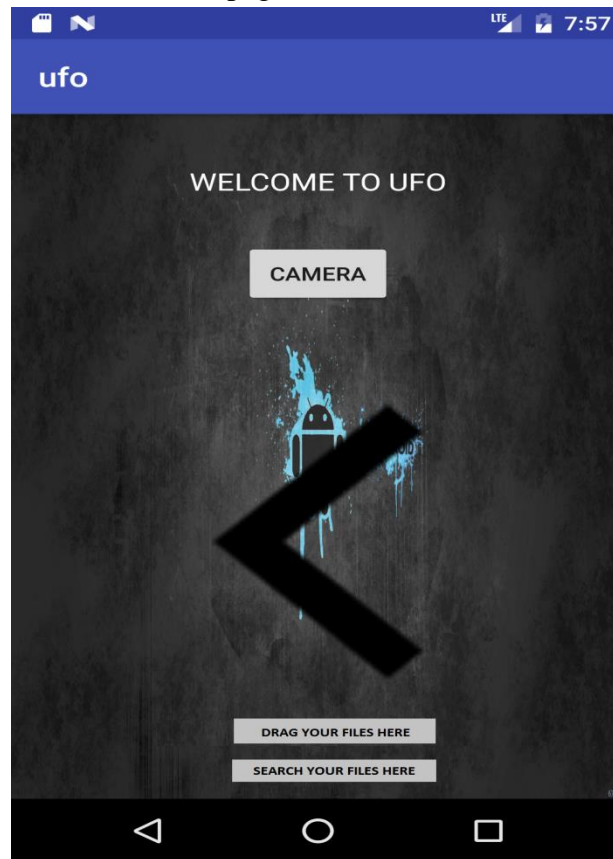
- If the user did not enter all the details then this will be displayed



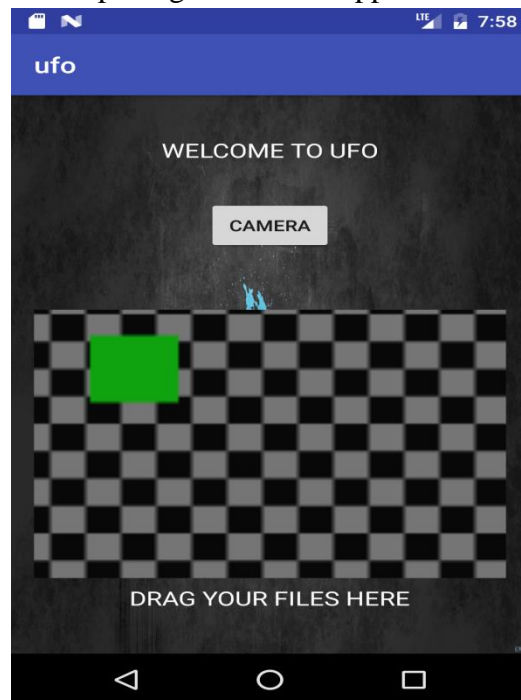
- Incase the user forgets the password a link will be sent to his mobile number to reset the password



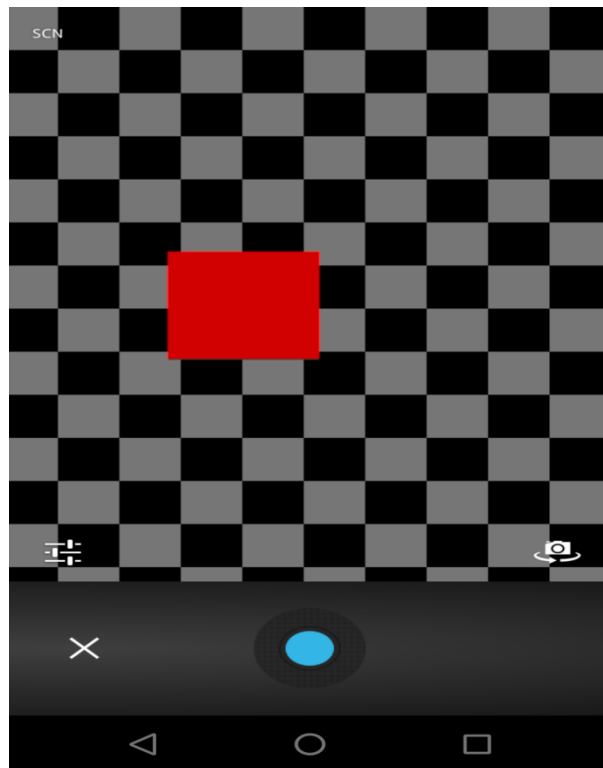
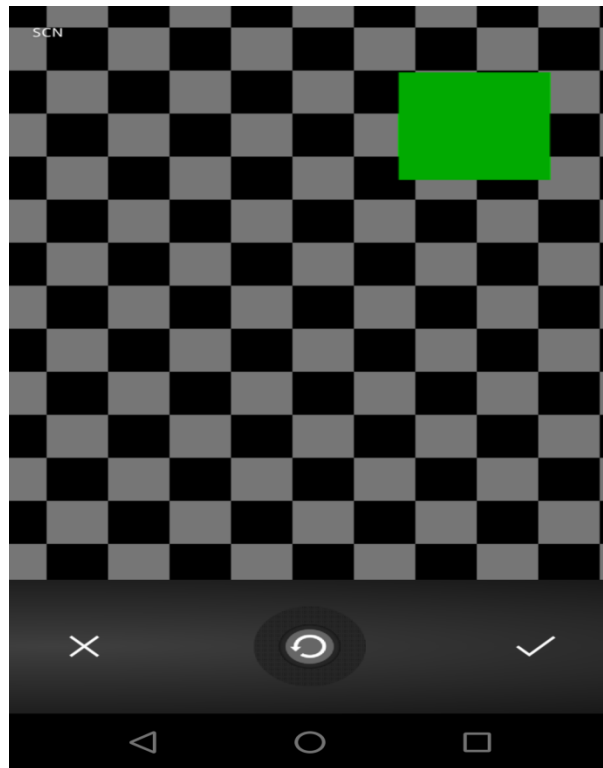
- This is the home page of the UFO after successful login or successful registration.



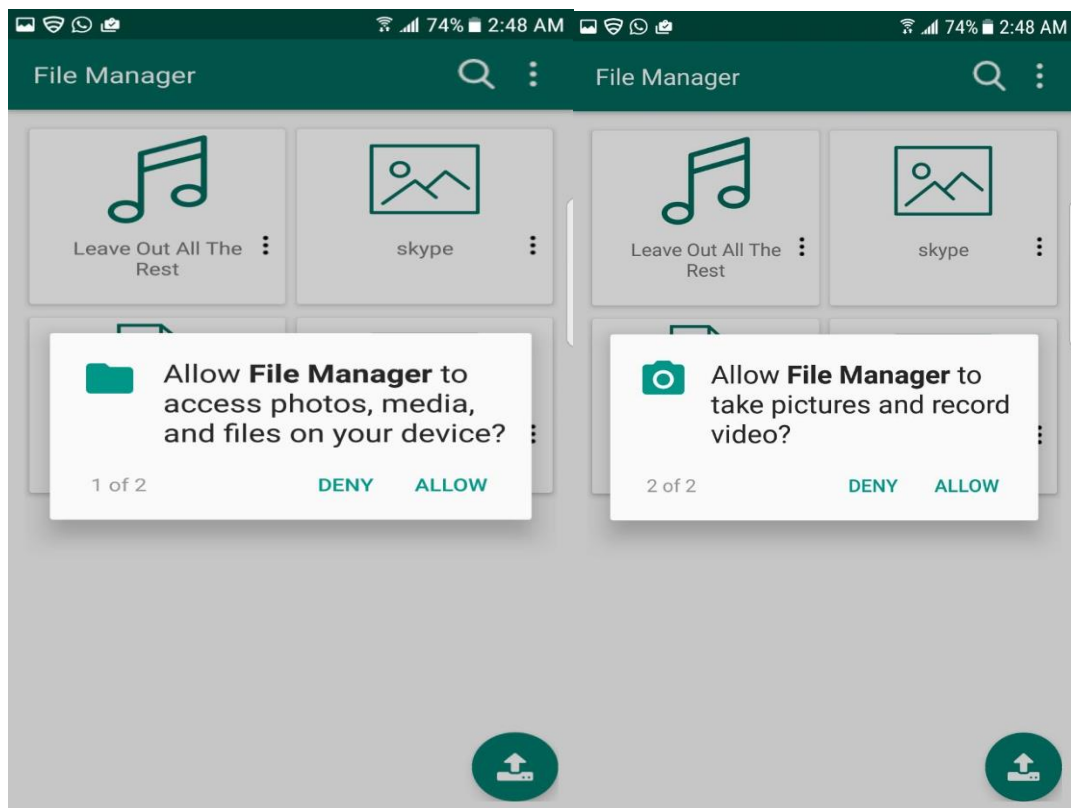
- After opening the camera app this is the screenshot.



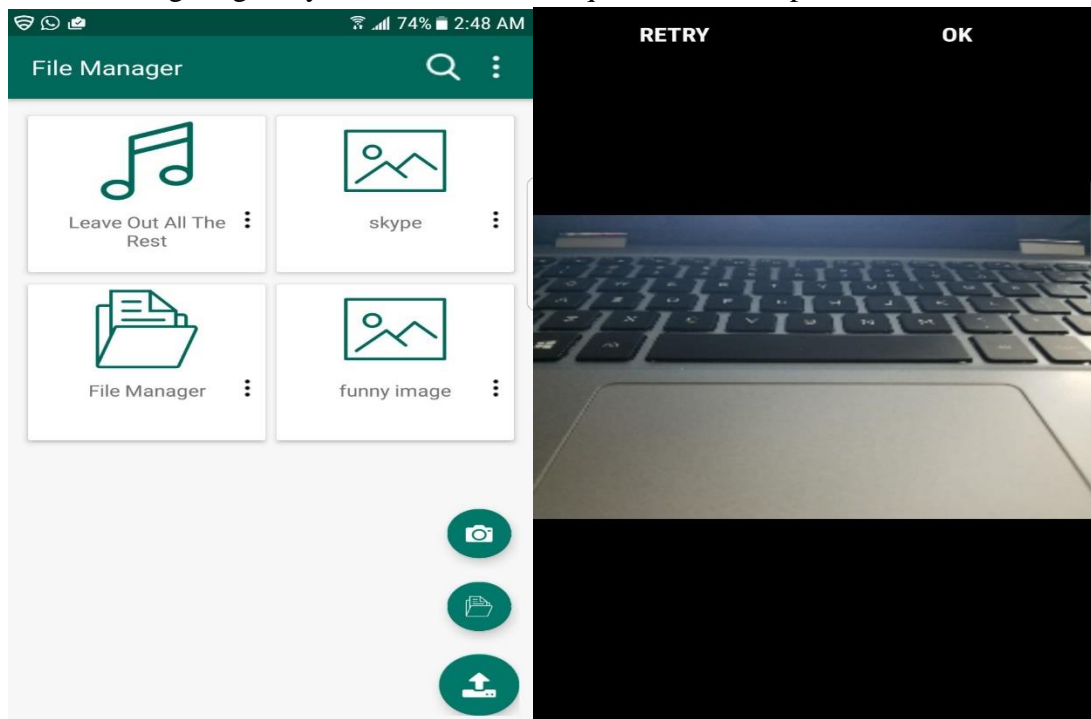
- This is the photo and video taken from the camera.

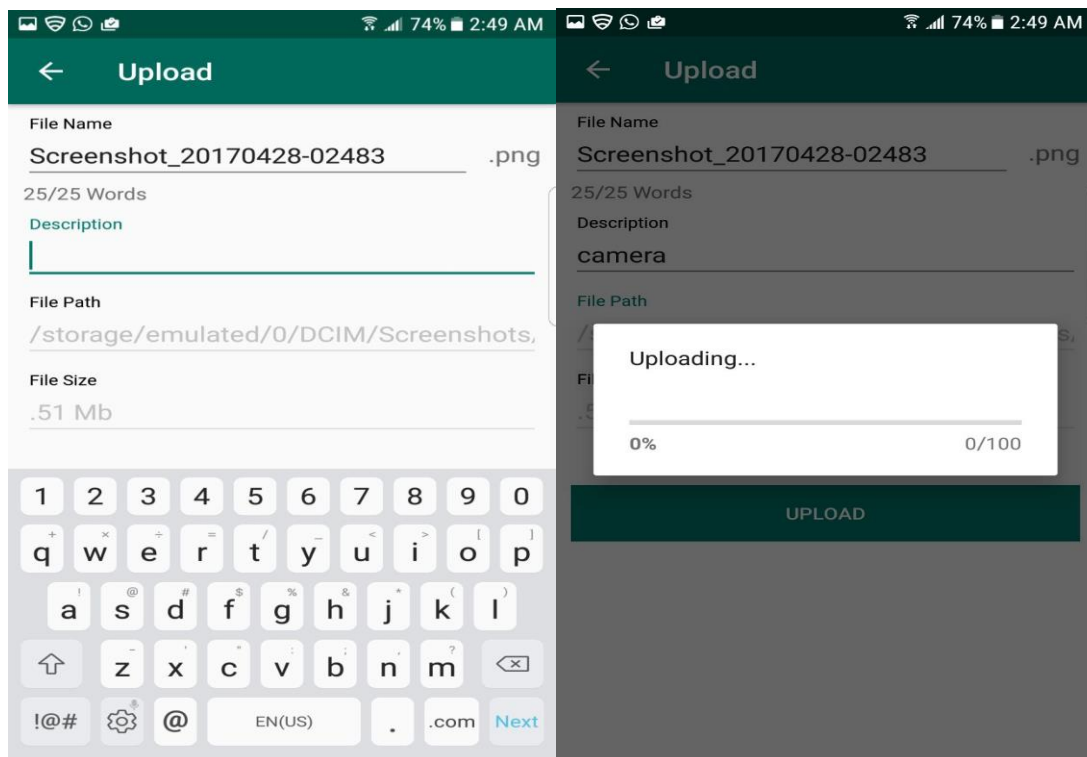


- ❖ When clicked on drag your files

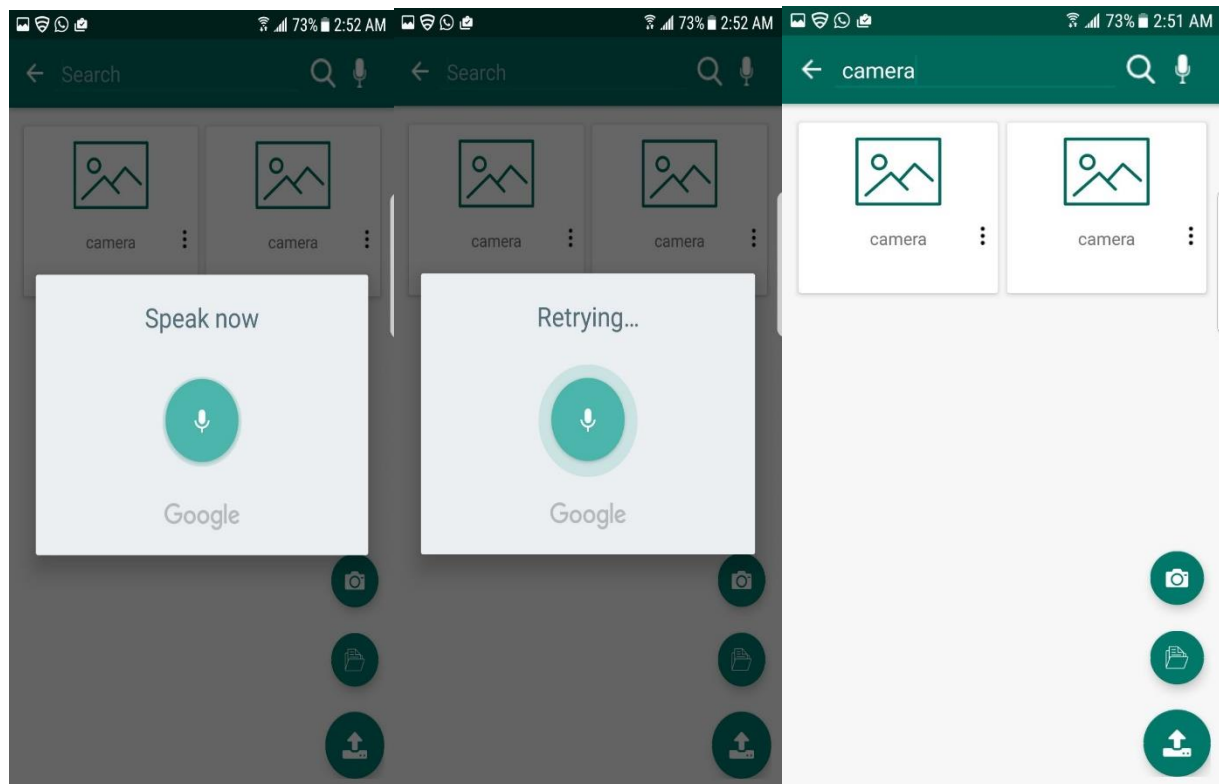


- ❖ Then clicking on gallery we can select the required file and upload it

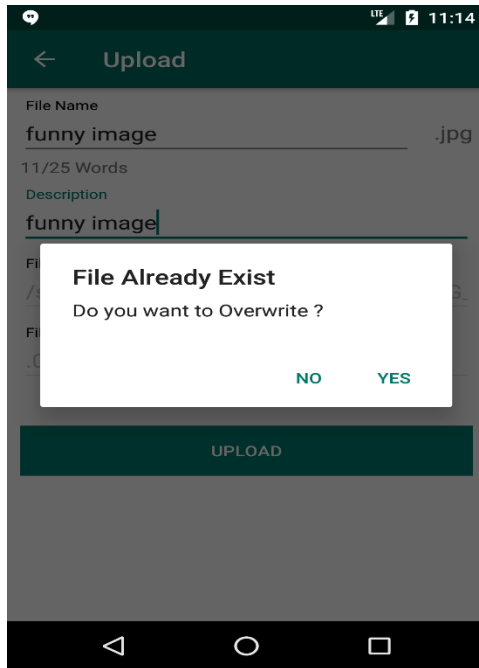




❖ When clicked on search your file the text to speech API is obtained



- DUPLICATION FEATURE



7. PROJECT DEPLOYMENT

This is how the user logs into the login page

The image displays two side-by-side screenshots of a mobile application's login screen. Both screens have a dark green header bar with status icons and time (1:01 AM and 1:02 AM). The main content area is light gray. At the top, the word 'LOGIN' is centered in a large, dark font. Below it, there are two input fields: 'Email' and 'Password'. The 'Email' field is a blue-outlined rectangle, and the 'Password' field is a blue-outlined rectangle with a small eye icon to its right. Below the input fields are two dark green buttons: 'SIGN IN' and 'SIGN UP'. In the right screenshot, the 'Email' field contains the text 'sreekanth6495@gmail.com' and the 'Password' field contains a series of dots. The 'SIGN IN' button is highlighted with a white border.

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

The image displays two side-by-side screenshots of the same mobile application's login screen, but with error messages. Both screens have a dark green header bar with status icons and time (1:26 AM and 1:25 AM). The main content area is light gray. At the top, the word 'LOGIN' is centered in a large, dark font. Below it, there are two input fields: 'Email' and 'Password'. The 'Email' field is a blue-outlined rectangle, and the 'Password' field is a blue-outlined rectangle with a small eye icon to its right. Below the input fields are two dark green buttons: 'SIGN IN' and 'SIGN UP'. In the left screenshot, the 'Email' field contains the text 'abcd' and the 'Password' field contains a series of dots. The 'SIGN IN' button is highlighted with a white border. In the right screenshot, the 'Email' field contains the text 'abcd' and the 'Password' field contains a series of dots. The 'SIGN IN' button is highlighted with a white border. At the bottom of the screen, there is a dark gray bar with two error messages: 'Invalid Credential' on the left and 'Please Follow Email Standards' on the right.

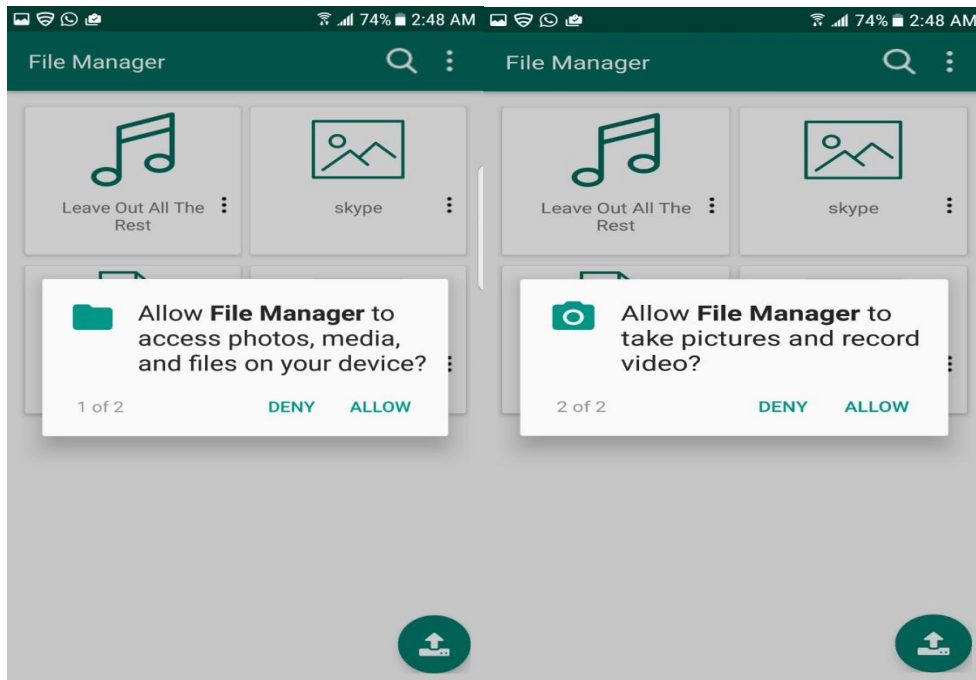
- This is how the user registers

The image displays two side-by-side screenshots of a mobile application's 'Register Screen'. Both screens have a dark green header with a back arrow and the text 'Register Screen'. The status bar at the top shows 86% battery and 1:02 AM / 1:04 AM. The left screenshot shows empty input fields for Name, Mobile Number, Email-ID, Password, and Cofirm Password. The right screenshot shows the same fields filled with: Name: team18, Mobile Number: 1234567890, Email-ID: sreekanth6495@gmail.com, Password: (masked), and Cofirm Password: (masked). Both screens feature a green 'REGISTER' button at the bottom.

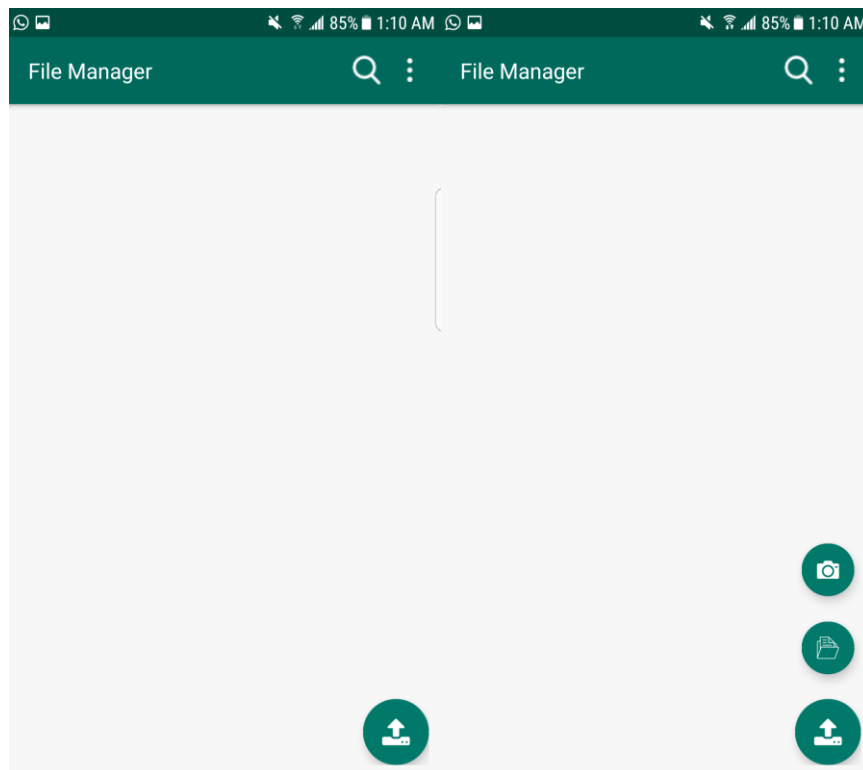
- Errors which occur when wrong details are entered

The image displays two side-by-side screenshots of the 'Register Screen' showing validation errors. Both screens have a dark green header with a back arrow and the text 'Register Screen'. The status bar at the top shows 81% battery and 1:31 AM. The left screenshot shows the Name field filled with 'abcd', while Mobile Number, Email-ID, Password, and Cofirm Password are empty. The right screenshot shows Name: abcd, Mobile Number: 1234567890, Email-ID: abcd, Password: (masked), and Cofirm Password: (masked). Both screens feature a green 'REGISTER' button at the bottom. Below the screenshots, a dark grey bar contains two error messages: 'Invalid Number, Must Be 10 Digits' on the left and 'Please Follow Email Standards' on the right.

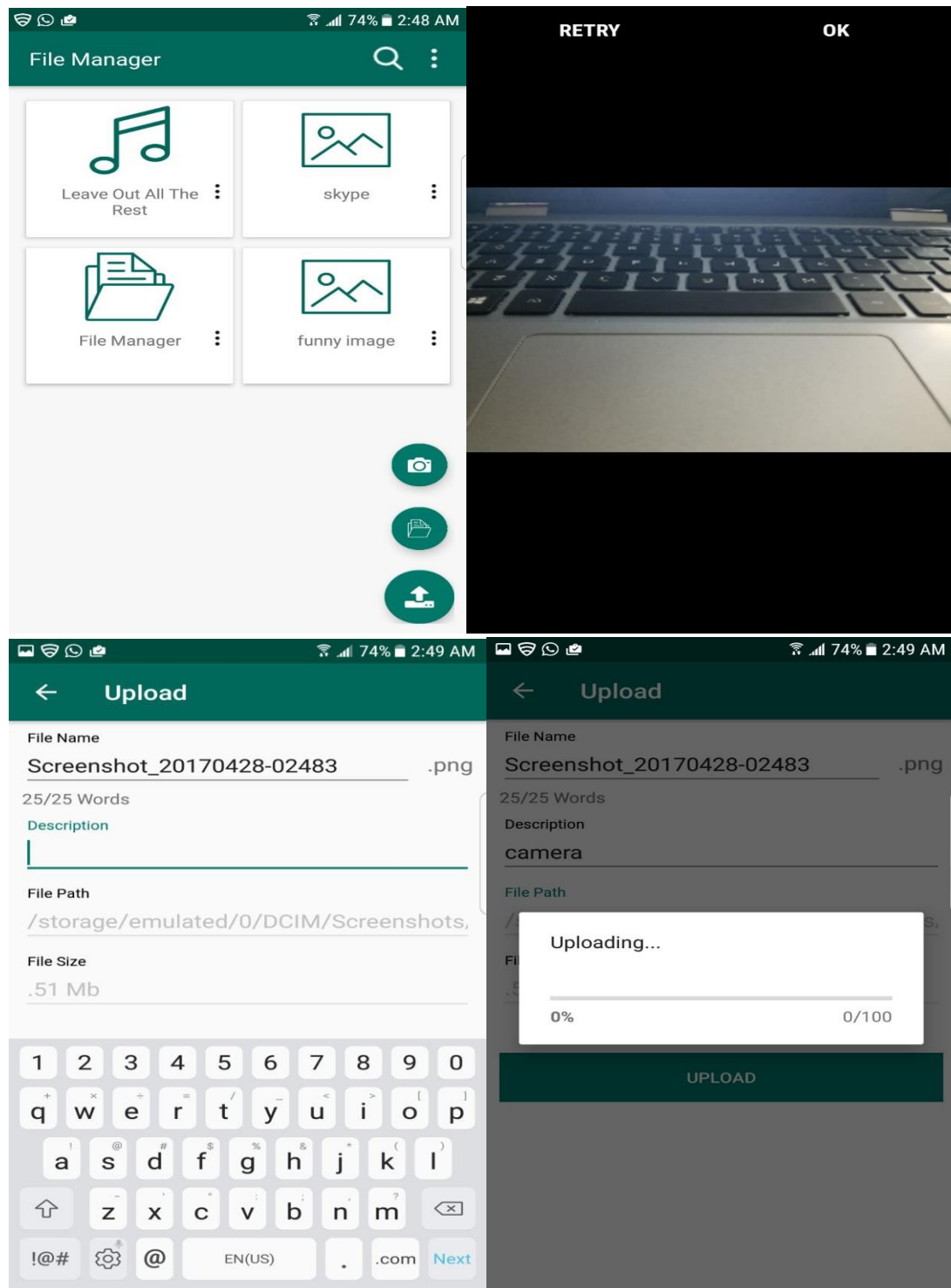
- Permissions which are asked by the application when logged in



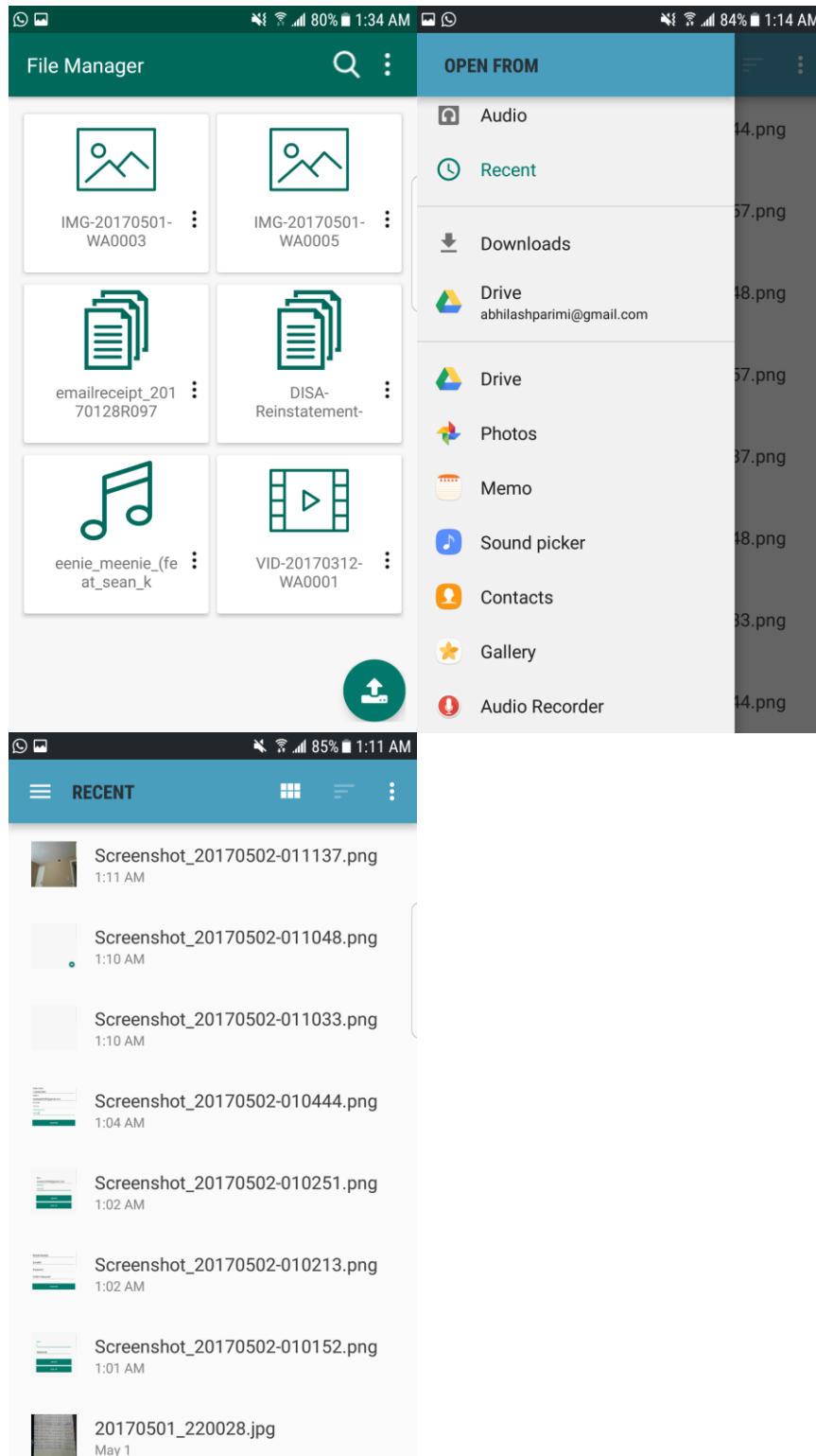
- THIS is the home page of the application with upload button on the right bottom



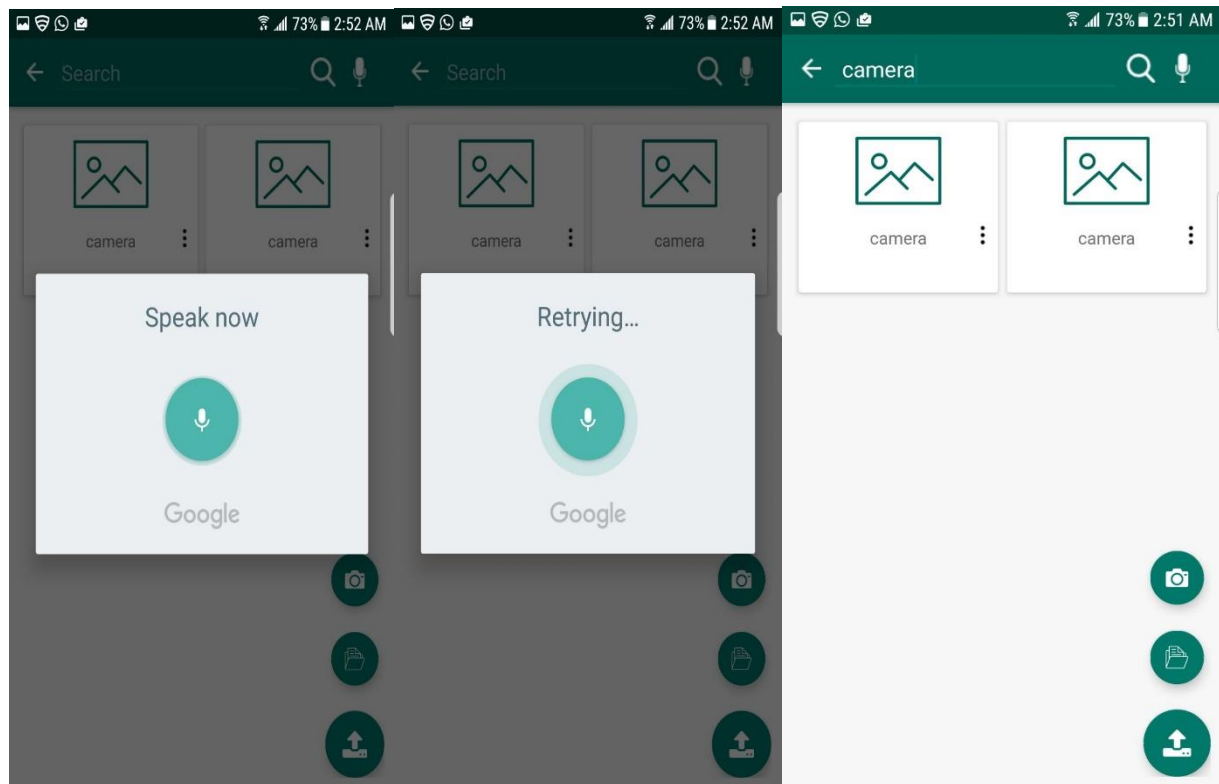
- ❖ The user can upload either by camera or by selecting the gallery



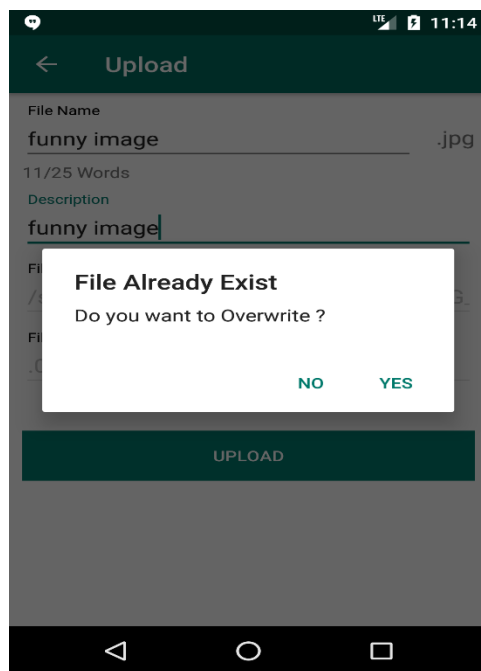
- All media and files are displayed to the user and he can upload any type of media or file example : Photo , Video , Pdf's , Word docs , music files etc.



- ❖ 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 if 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.

Project Increment - 1 Due by February 17, 2017 Last updated 32 minutes ago Create Wire frames, UML Class Diagram, Sequence Diagram, Use case diagram Create Android app with Login, Register and home pages.	0% complete 5 open 0 closed Edit Close Delete
Project Increment - 2 Due by March 10, 2017 Last updated 20 minutes ago Validate and authenticate users during login and registration Setup local database for application Implement the Camera API Let the user store and open the files	0% complete 5 open 0 closed Edit Close Delete
Project Increment - 3 Due by April 7, 2017 Last updated 12 minutes ago Implement the Speech Recognition API Test its working Make the app to retrieve file using speech	0% complete 4 open 0 closed Edit Close Delete
Project Increment - 4 Due by April 26, 2017 Last updated 2 minutes ago Implement the duplication recognition principle test the working of duplication Test the working of the complete application make final report , ppt and video	0% complete 6 open 0 closed Edit Close Delete

- ❖ Issues for increment 1

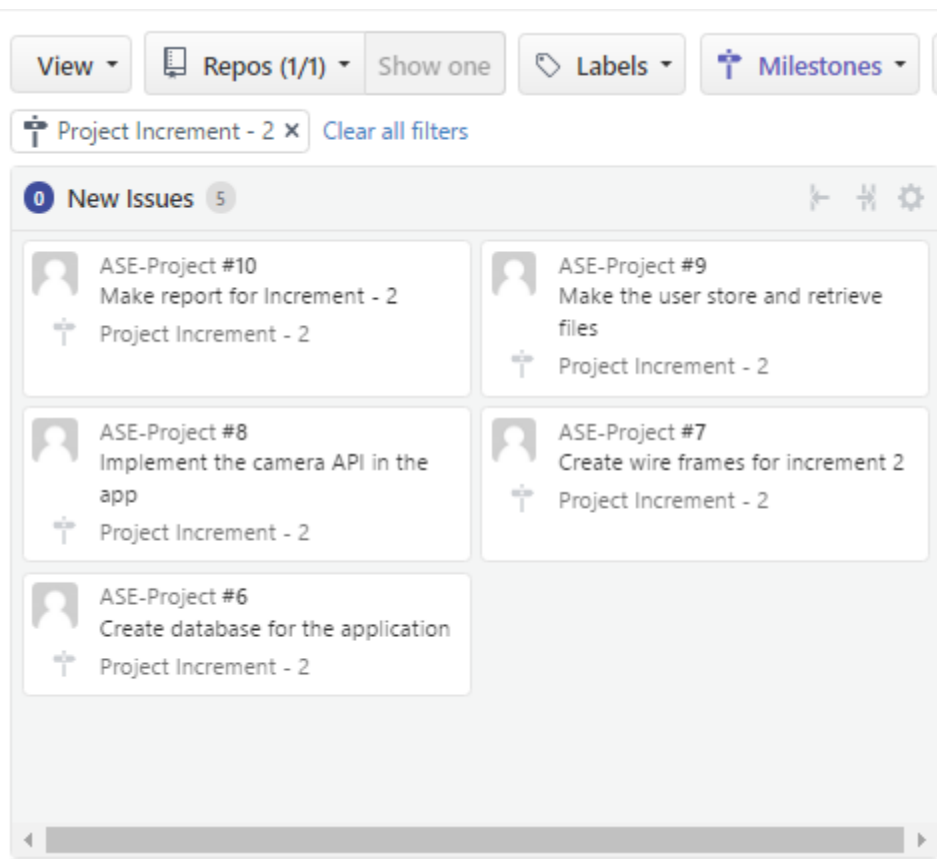
[View](#) [Repos \(1/1\)](#) [Show one](#) [Labels](#) [Milestones](#)

[Project Increment - 1](#) [Clear all filters](#)

0 New Issues **5**

ASE-Project #5 Complete revised project proposal Project Increment - 1	ASE-Project #4 Create Home Page Project Increment - 1
ASE-Project #3 Deploy app create login page , register page Project Increment - 1	ASE-Project #2 Prepare UML Sequence Diagram and Case Diagram Project Increment - 1
ASE-Project #1 Prepare UML Case diagram Project Increment - 1	

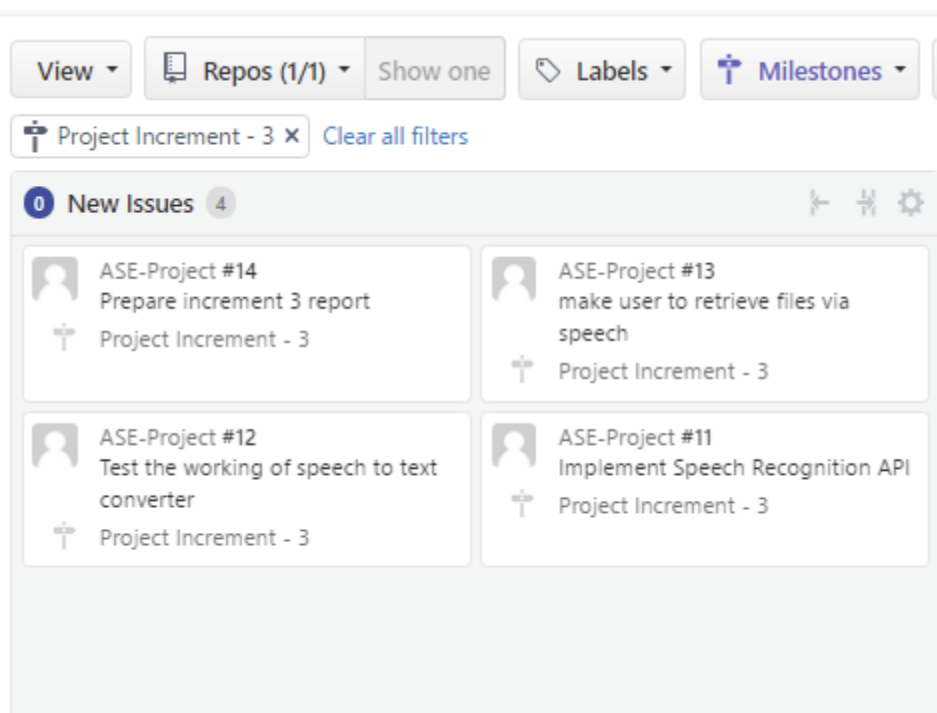
❖ Issues for increment 2



The screenshot shows the Jira interface for 'Project Increment - 2'. At the top, there are filters for 'View', 'Repos (1/1)', 'Show one', 'Labels', and 'Milestones'. Below the filters, a tab indicates 'Project Increment - 2' with a 'Clear all filters' link. The main area displays a list of five issues under the heading 'New Issues 5'. Each issue card includes a user icon, a project name, a description, and a label 'Project Increment - 2'.

Project	Description	Label
ASE-Project #10	Make report for Increment - 2	Project Increment - 2
ASE-Project #9	Make the user store and retrieve files	Project Increment - 2
ASE-Project #8	Implement the camera API in the app	Project Increment - 2
ASE-Project #7	Create wire frames for increment 2	Project Increment - 2
ASE-Project #6	Create database for the application	Project Increment - 2

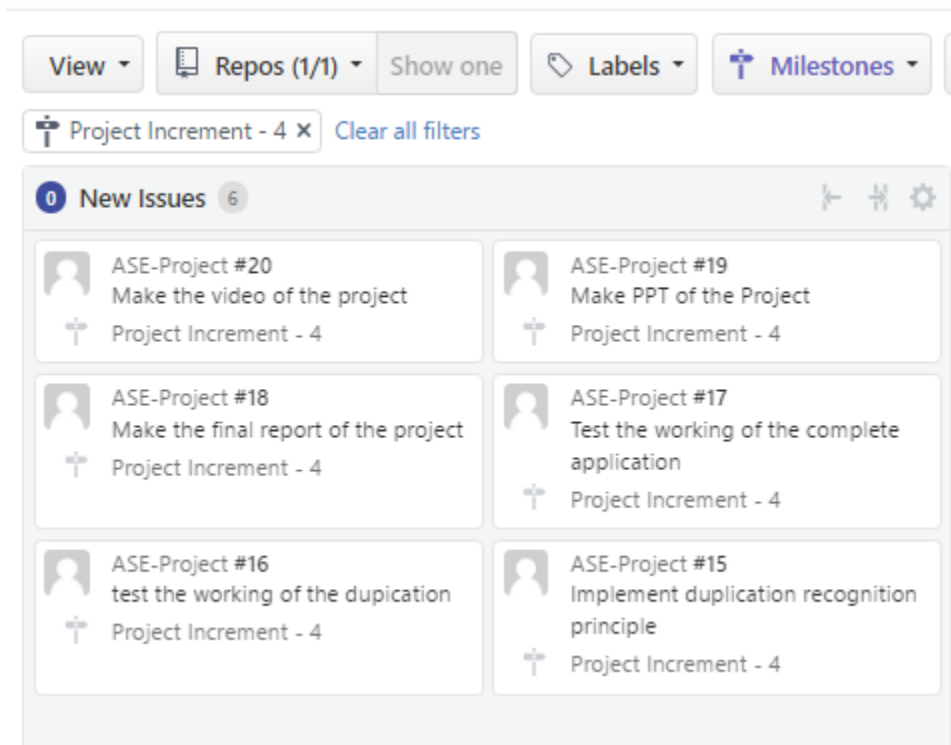
❖ Issues for increment 3



The screenshot shows the Jira interface for 'Project Increment - 3'. At the top, there are filters for 'View', 'Repos (1/1)', 'Show one', 'Labels', and 'Milestones'. Below the filters, a tab indicates 'Project Increment - 3' with a 'Clear all filters' link. The main area displays a list of four issues under the heading 'New Issues 4'. Each issue card includes a user icon, a project name, a description, and a label 'Project Increment - 3'.

Project	Description	Label
ASE-Project #14	Prepare increment 3 report	Project Increment - 3
ASE-Project #13	make user to retrieve files via speech	Project Increment - 3
ASE-Project #12	Test the working of speech to text converter	Project Increment - 3
ASE-Project #11	Implement Speech Recognition API	Project Increment - 3

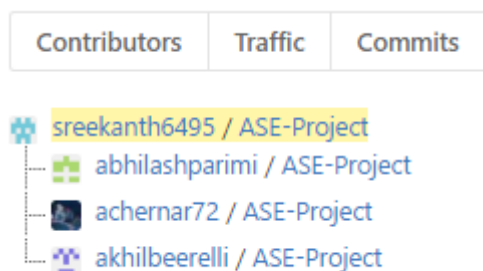
❖ Issues for increment 4



The screenshot shows the GitHub interface for the 'Project Increment - 4' repository. At the top, there are tabs for 'View', 'Repos (1/1)', 'Show one', 'Labels', and 'Milestones'. Below these, a filter bar shows 'Project Increment - 4' with a 'Clear all filters' link. The main section is titled 'New Issues' with a count of 6. It displays six issues in a grid:

Issue ID	Issue Title	Assignee
ASE-Project #20	Make the video of the project	Project Increment - 4
ASE-Project #19	Make PPT of the Project	Project Increment - 4
ASE-Project #18	Make the final report of the project	Project Increment - 4
ASE-Project #17	Test the working of the complete application	Project Increment - 4
ASE-Project #16	test the working of the duplication	Project Increment - 4
ASE-Project #15	Implement duplication recognition principle	Project Increment - 4

❖ Team members



The screenshot shows the GitHub Contributors page for the 'ASE-Project' repository. It features three tabs: 'Contributors', 'Traffic', and 'Commits'. Below the tabs, a list of contributors is shown, each with a profile picture, username, and repository name:

Contributor	Repository
sreekanth6495	ASE-Project
abhilashparimi	ASE-Project
achernar72	ASE-Project
akhilbeerelli	ASE-Project

➤ 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

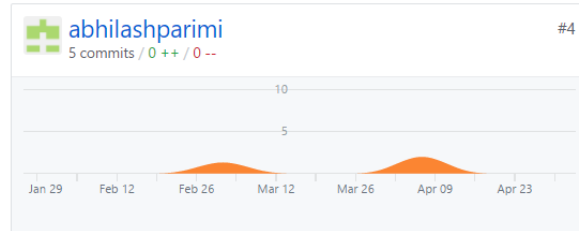
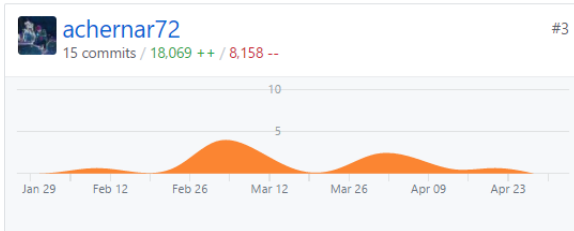
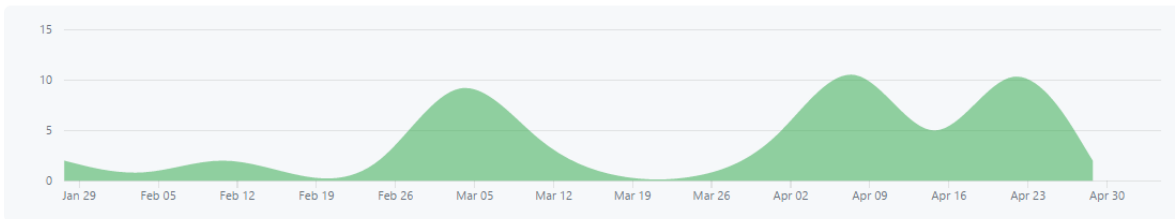
Responsibilities Increment-4 :

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

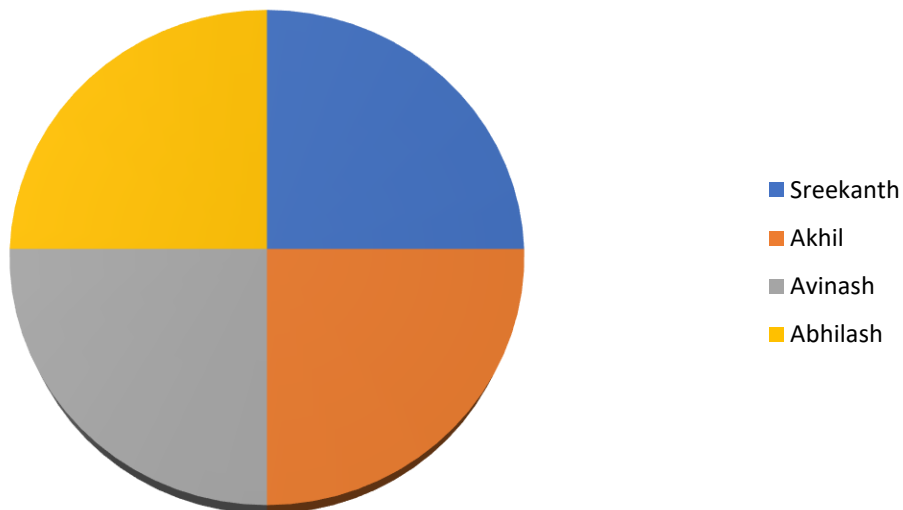
Jan 29, 2017 – May 6, 2017

Contributions: Commits ▾

Contributions to master, excluding merge commits



Work Distribution



9.PROJECT LINKS

PRESENTATION:

<https://drive.google.com/file/d/oB1uDNBReTnJuVmZXVWlaZXXN5TUk/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/>