



Name : Rajkumar B L

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MCS 272 – Mobile Application

Lab Report



A screenshot of an Android application interface. It features a light gray background with a central, rounded rectangular button. The button has a dark gray background and contains the white text "HelloWorld" in a sans-serif font.

HelloWorld

Lab 01 : Hello Toast

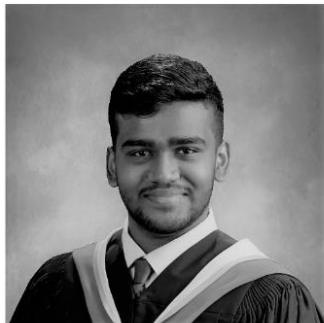
Name : Rajkumar B L
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Course : MCS 272 Mobile Application (Lab 01)

Output:

1. Welcome Screen



MCS 272 - LAB 01

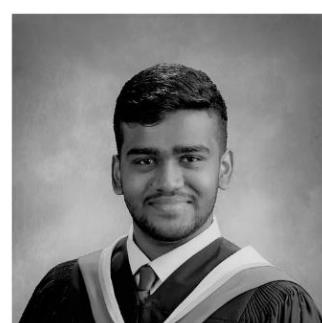


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2. Toast button clicked.



MCS 272 - LAB 01



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WELCOME

WELCOME

The current count is 0

TOAST

COUNT

TOAST

COUNT

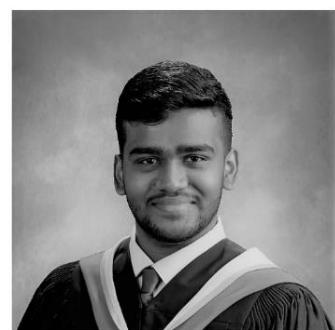


Note: The color of the count changes for every onclick performed on the count button. It is achieved by generating different RGB integer values using Random.

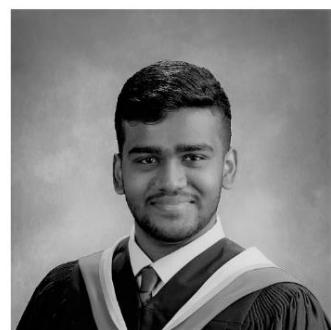
3. Count button clicked.



4. Count button clicked (6th time).



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1

6

TOAST

COUNT



TOAST

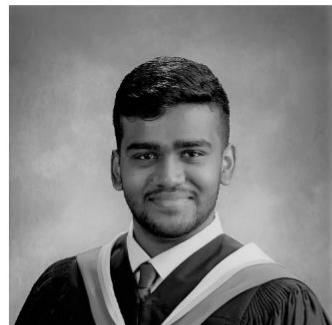
COUNT



5.Count button clicked (19th time).



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TOAST

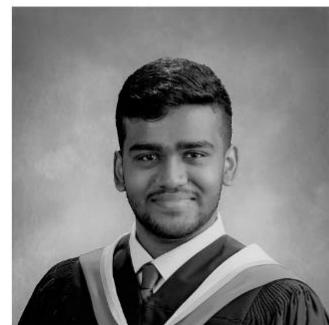
COUNT



6. Toast button clicked.



MCS 272 - LAB 01

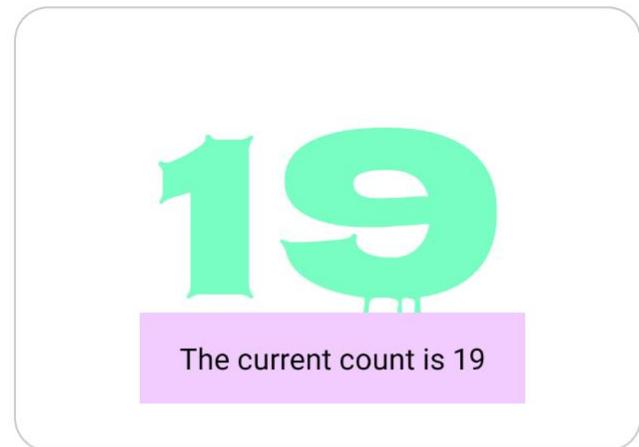


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TOAST

COUNT



The code used in the Main Activity and XML layout is attached below for reference.



Lab 02 : Calculator

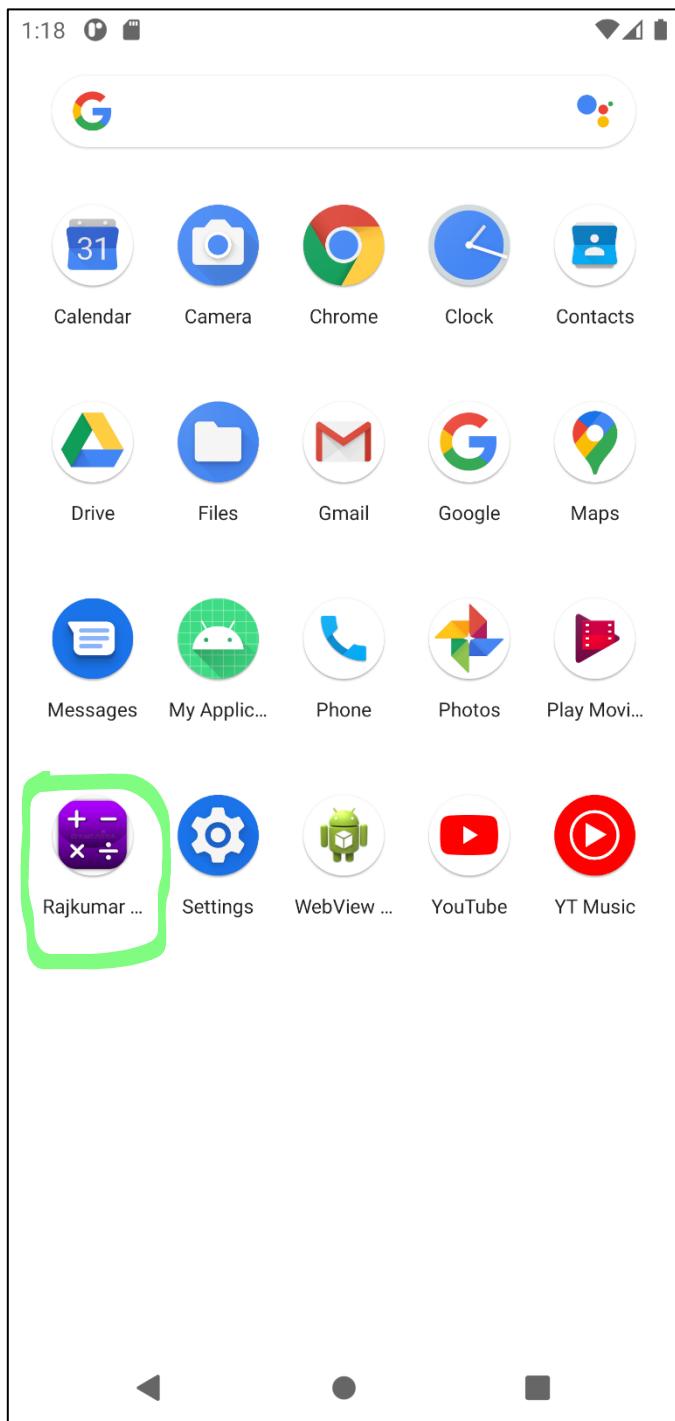
Name : Rajkumar B L

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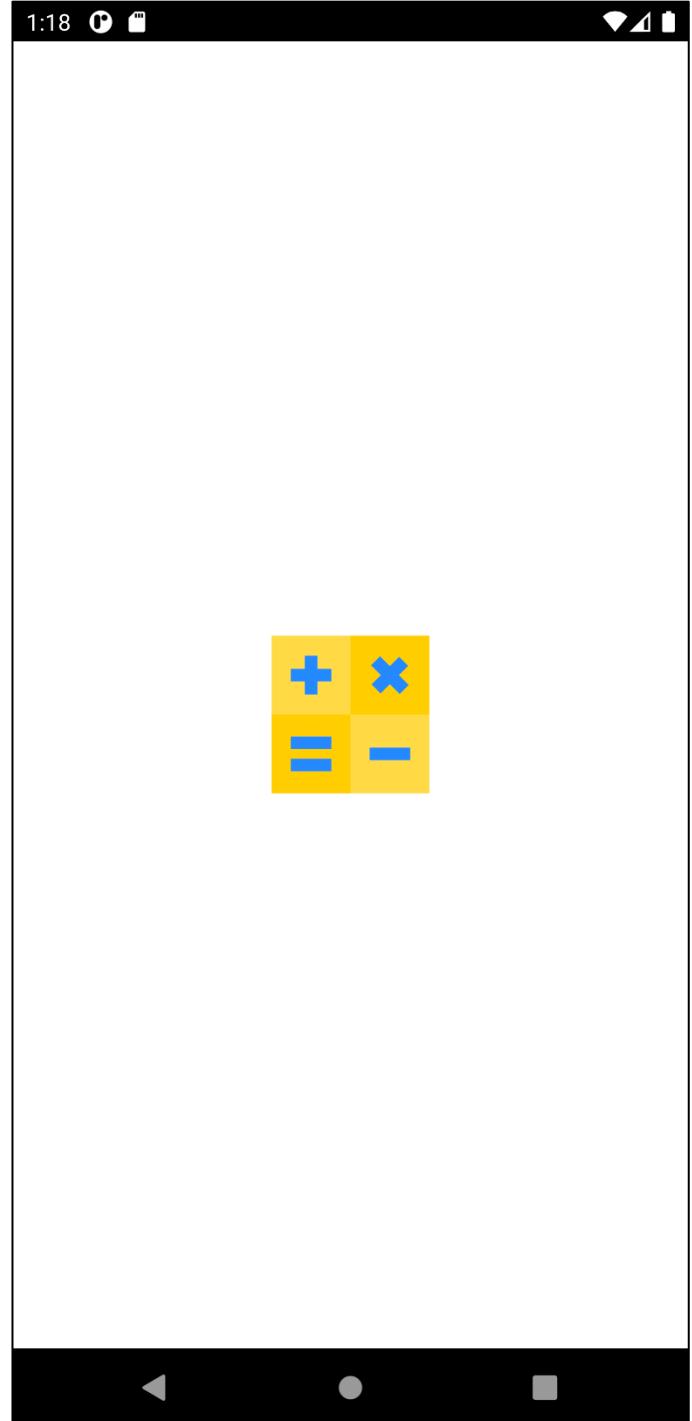
Course : MCS 272 Mobile Application (Lab 02 - Calculator)

Output:

1. App Icon

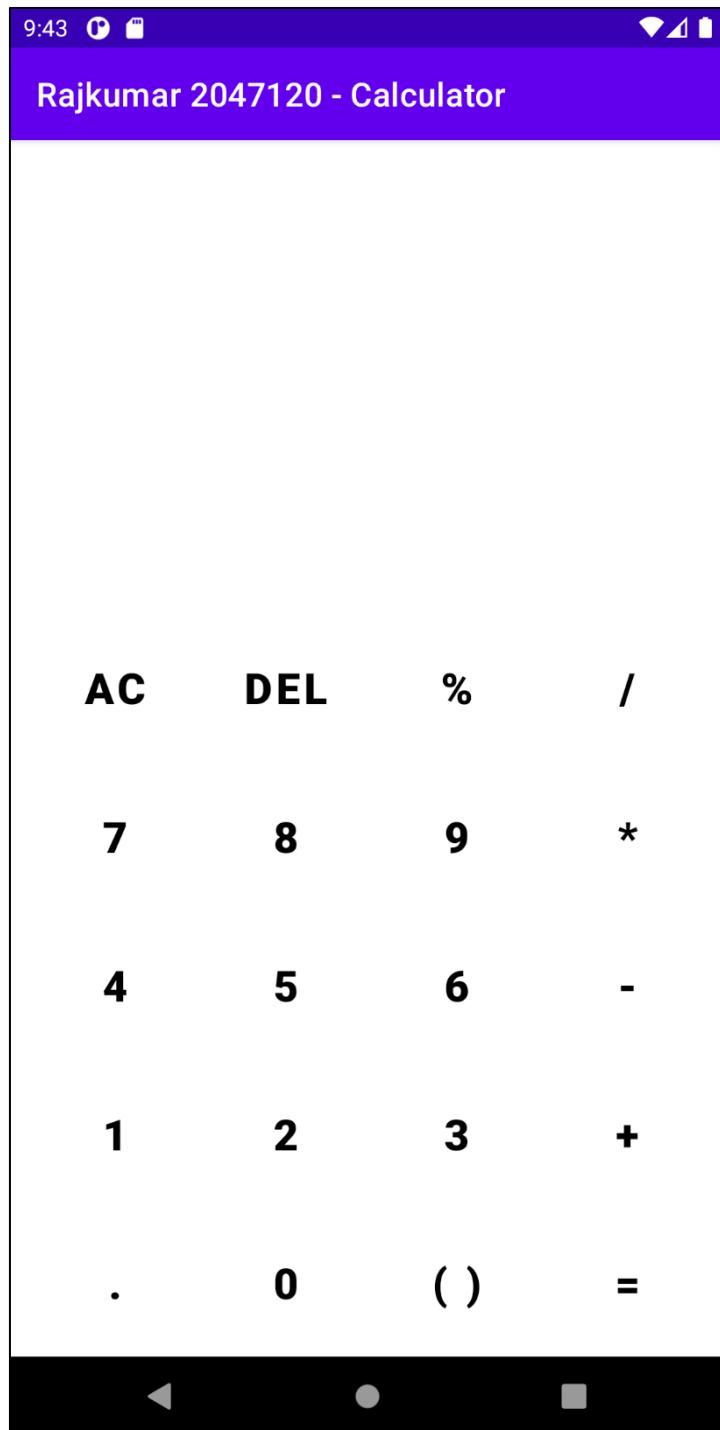


2. Splash Screen.

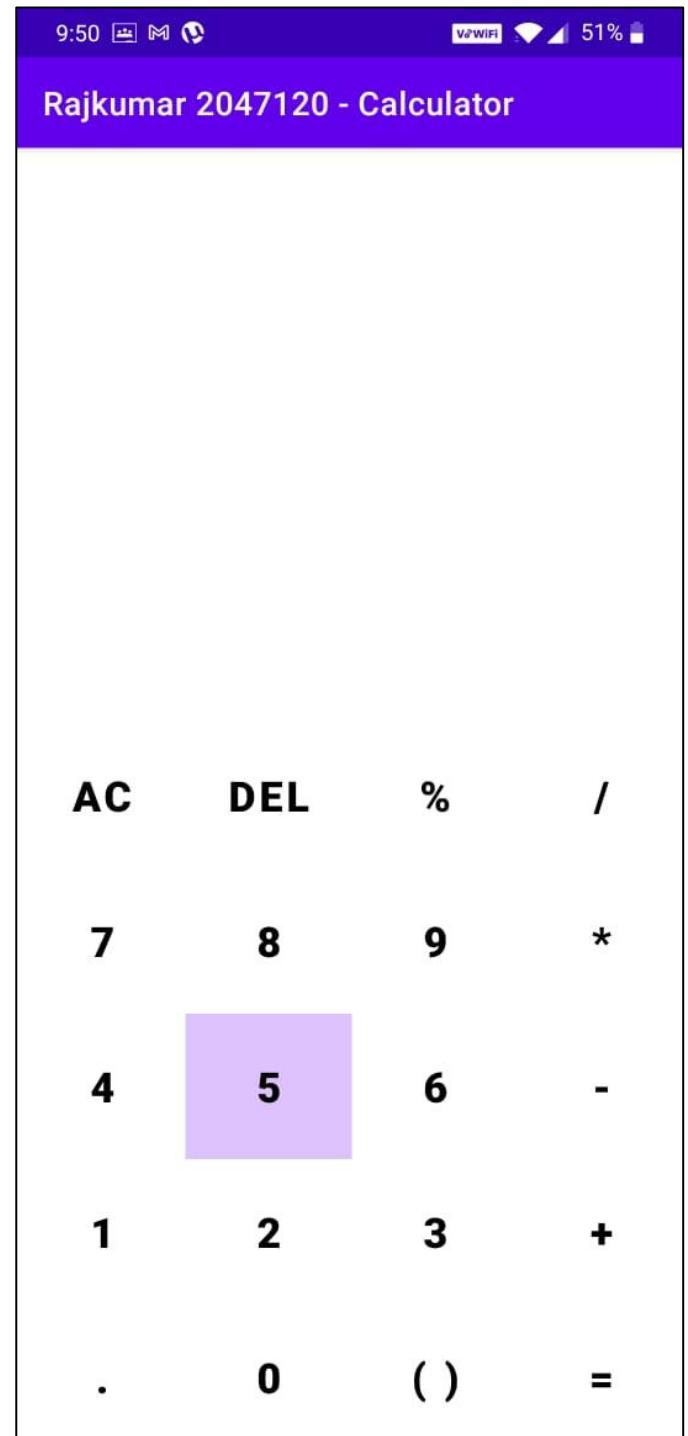


Note: Ripple effect is added to the buttons i.e., clicking on the button will change the background color of the button for few milliseconds to enhance the UI/UX. Clicking on the **DEL** button deletes one character to the left of the input and clicking on **AC** button empties the entire screen deleting any result or the expression.

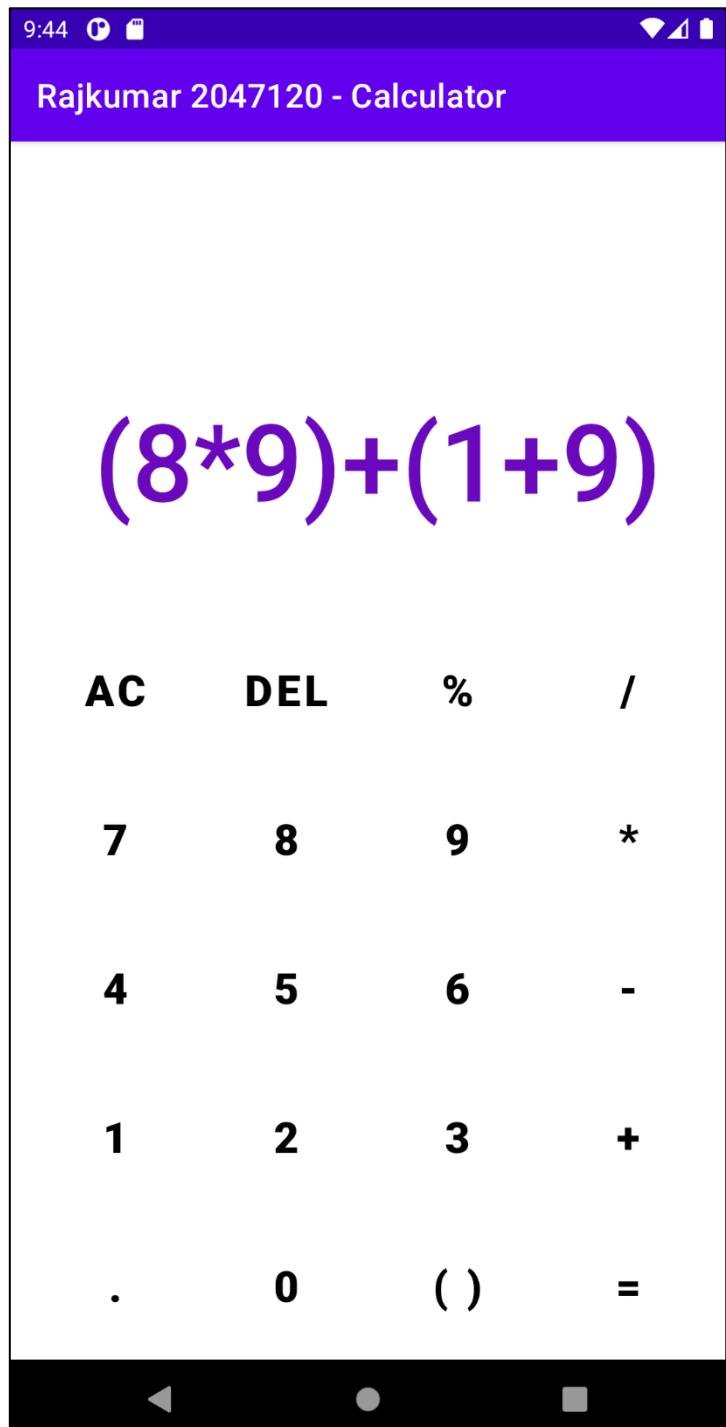
3. Welcome Screen.



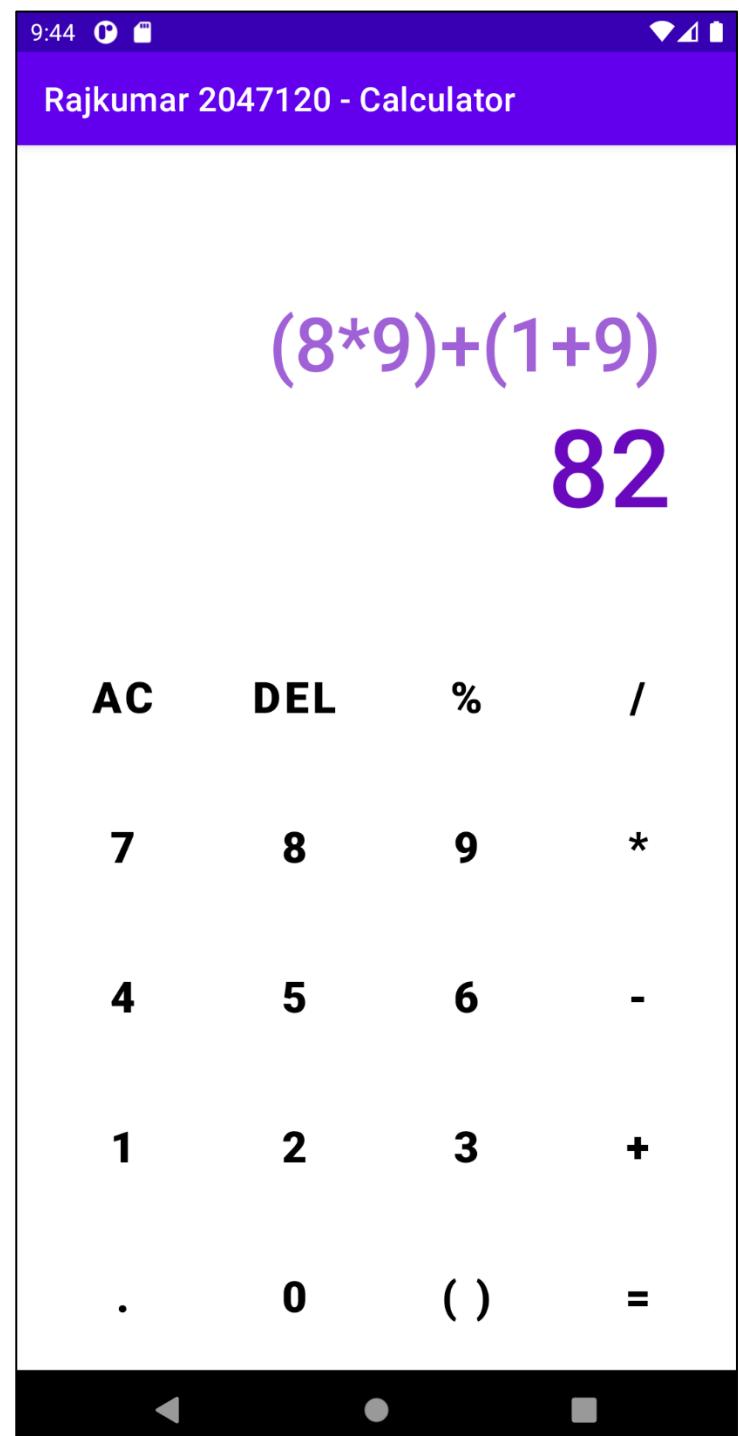
4. Button Ripple Effect.



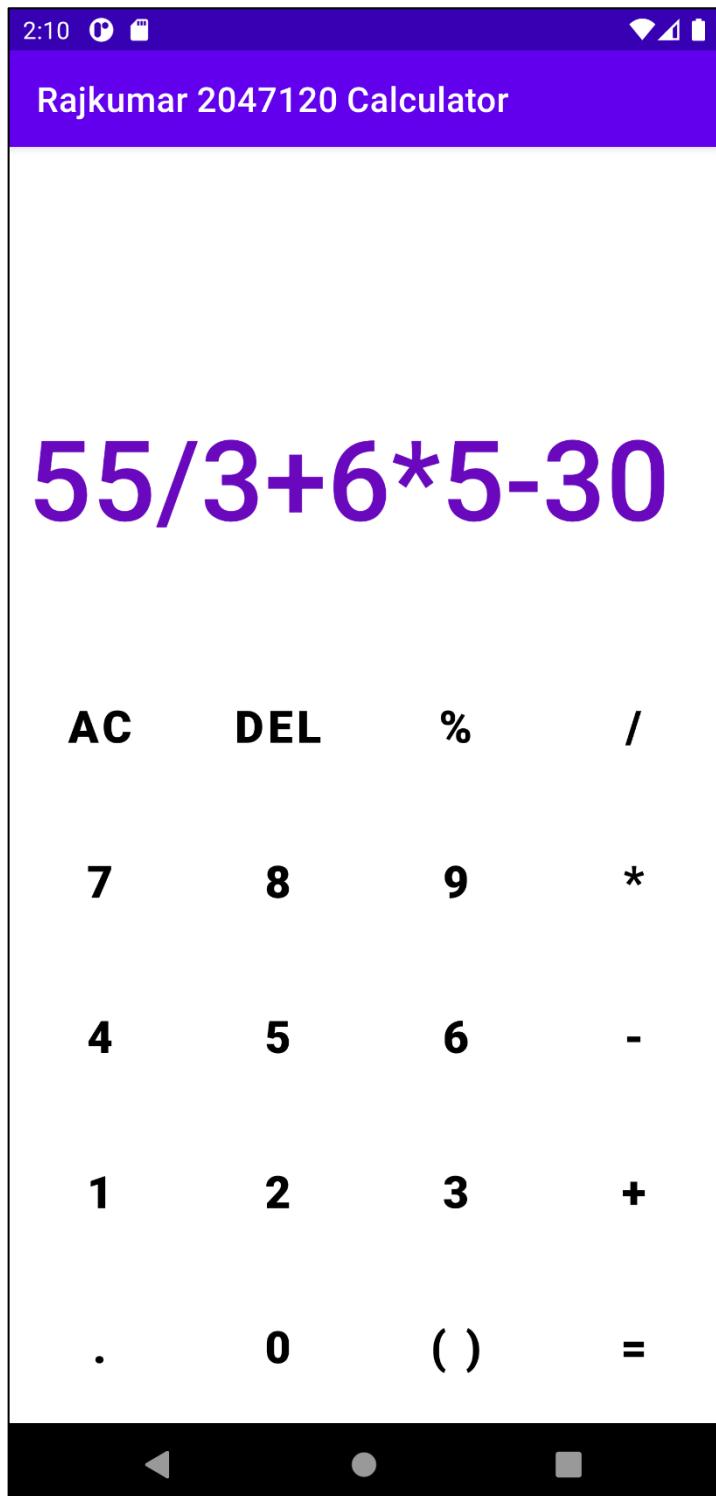
5. Expression Input - 01.



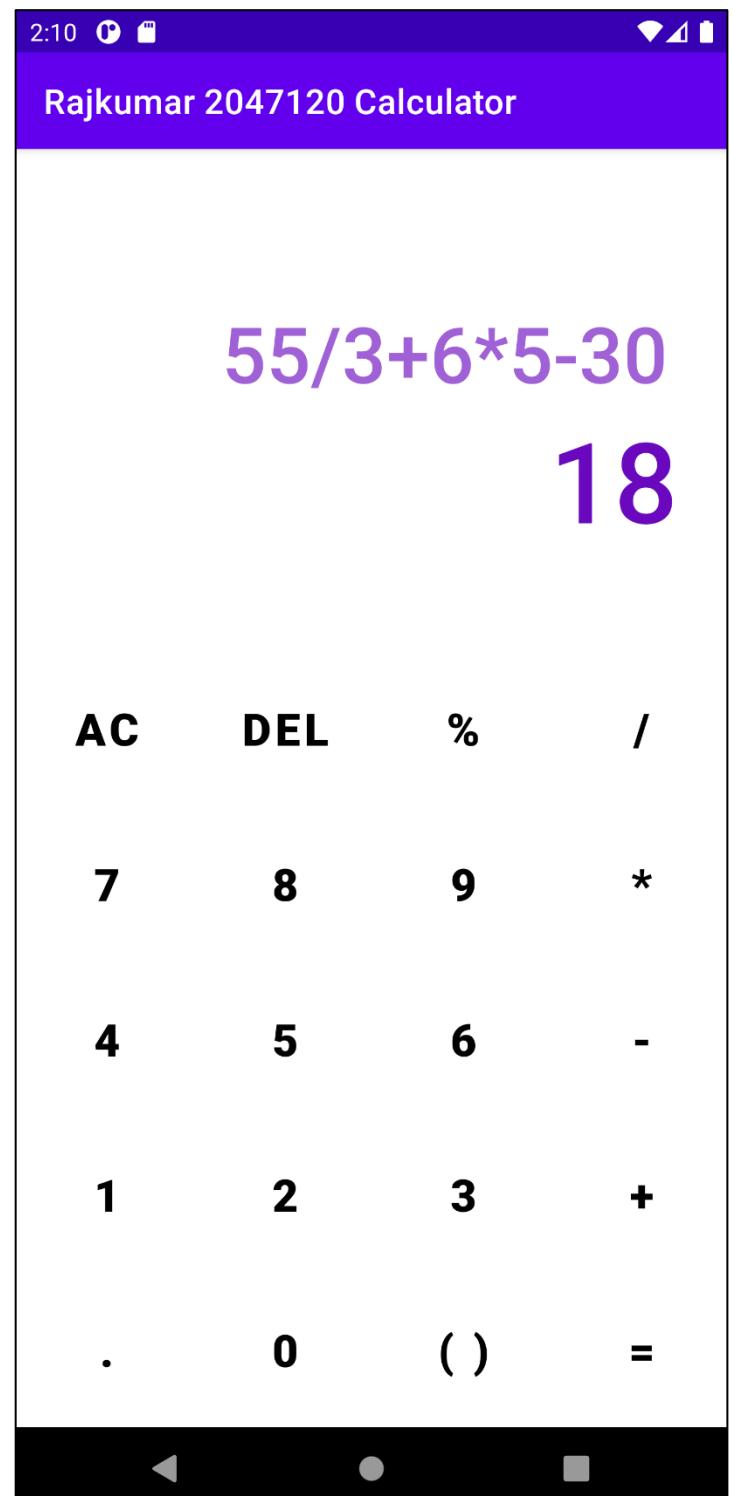
6. Result 01.



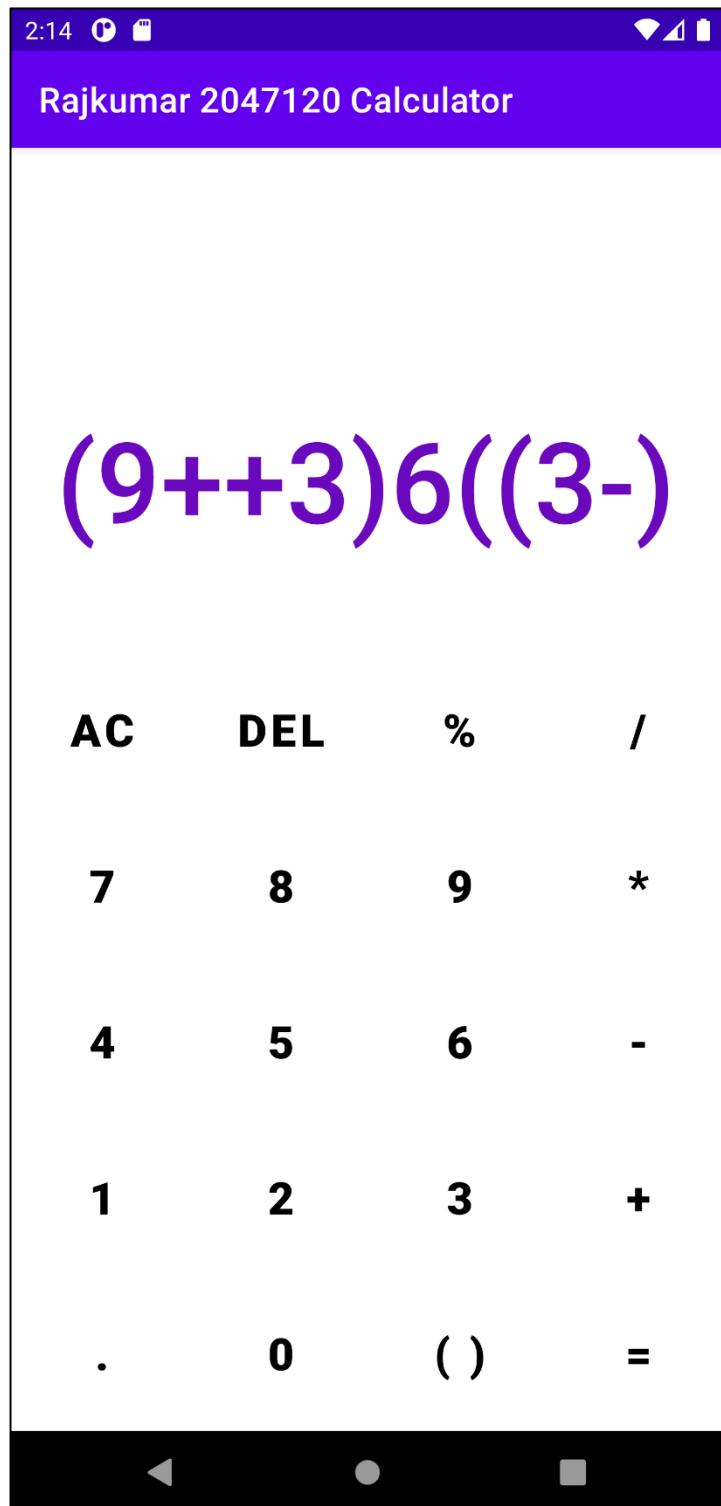
7. Expression Input - 03.



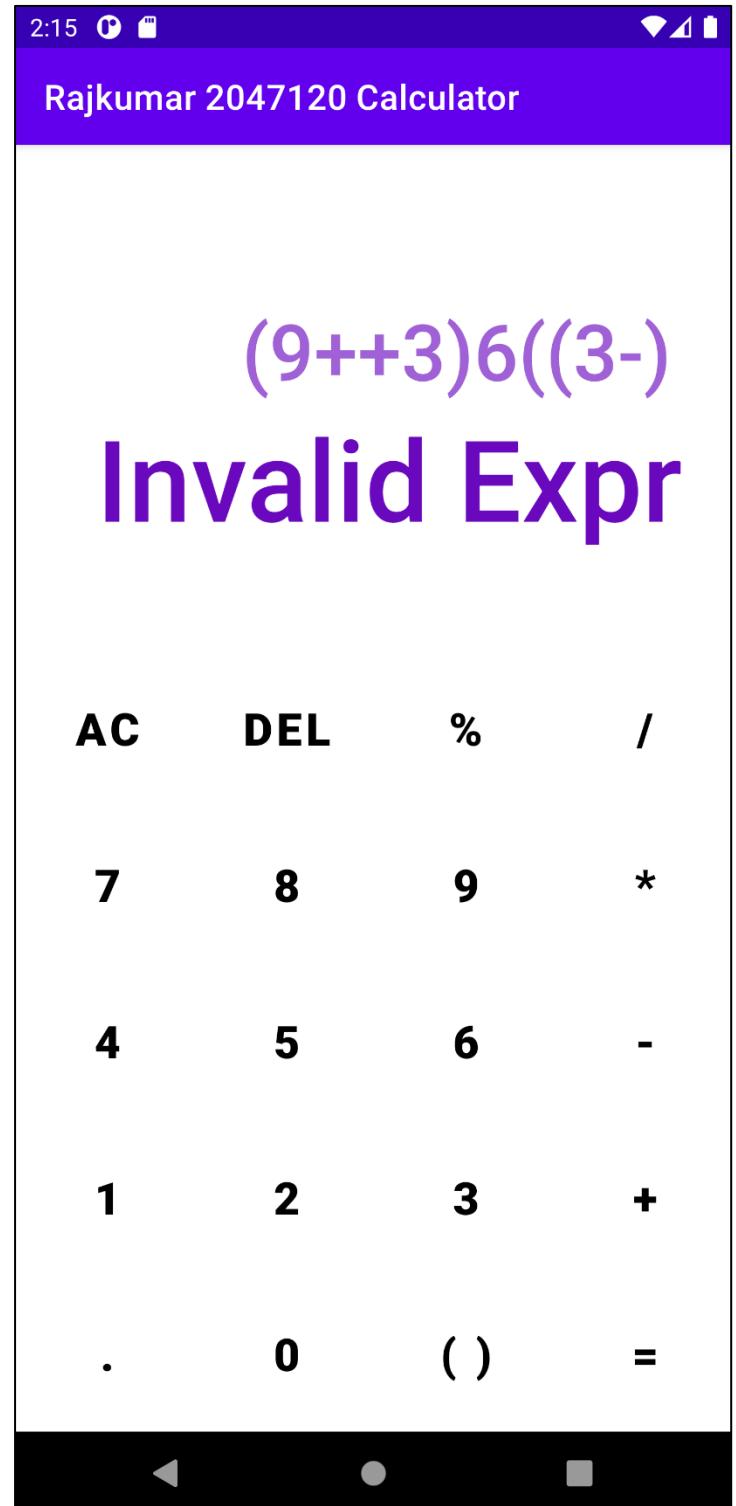
8. Result 03.



9. Expression Input - 03.



10. Result 03.



The code used in the Main Activity, XML layout, Splash scree, button ripple effect is attached below for reference.



Lab 03 : Intents

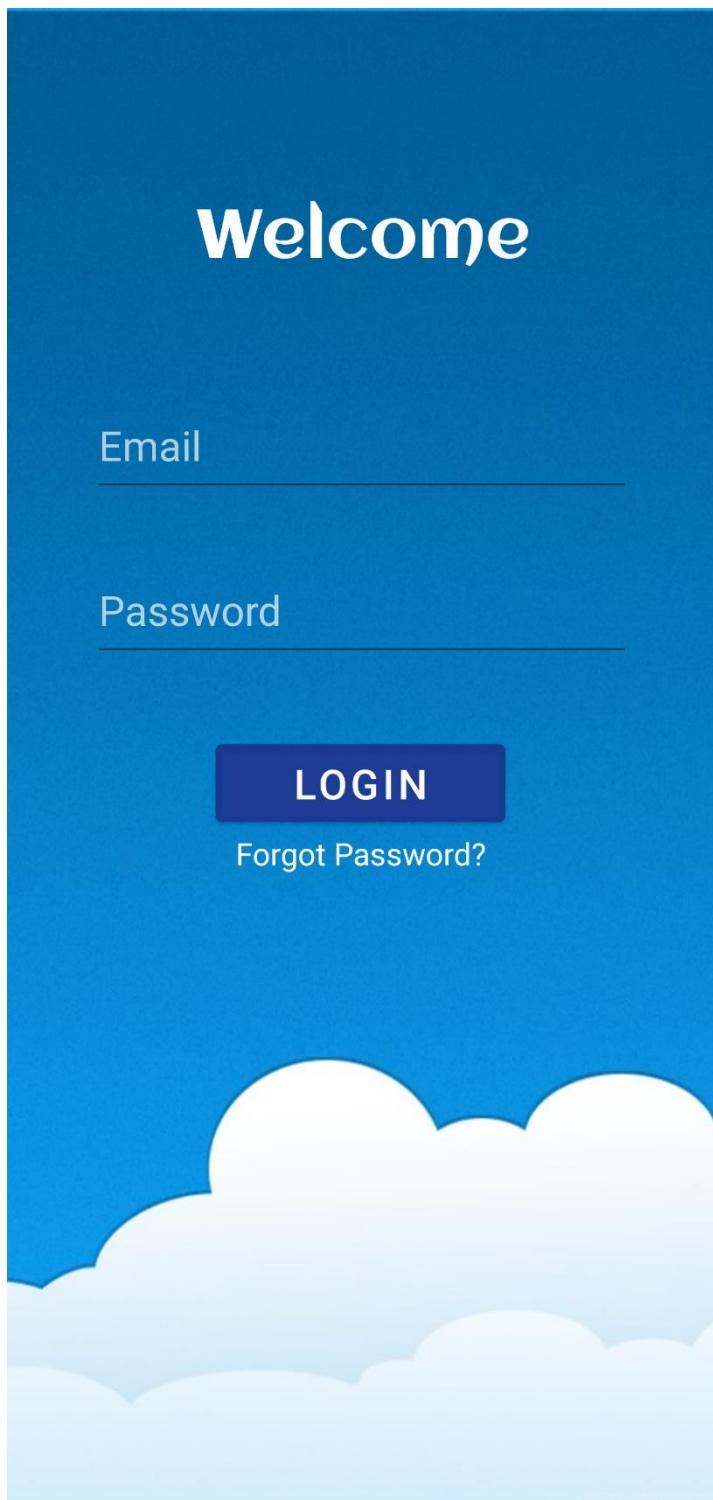
Name : Rajkumar B L

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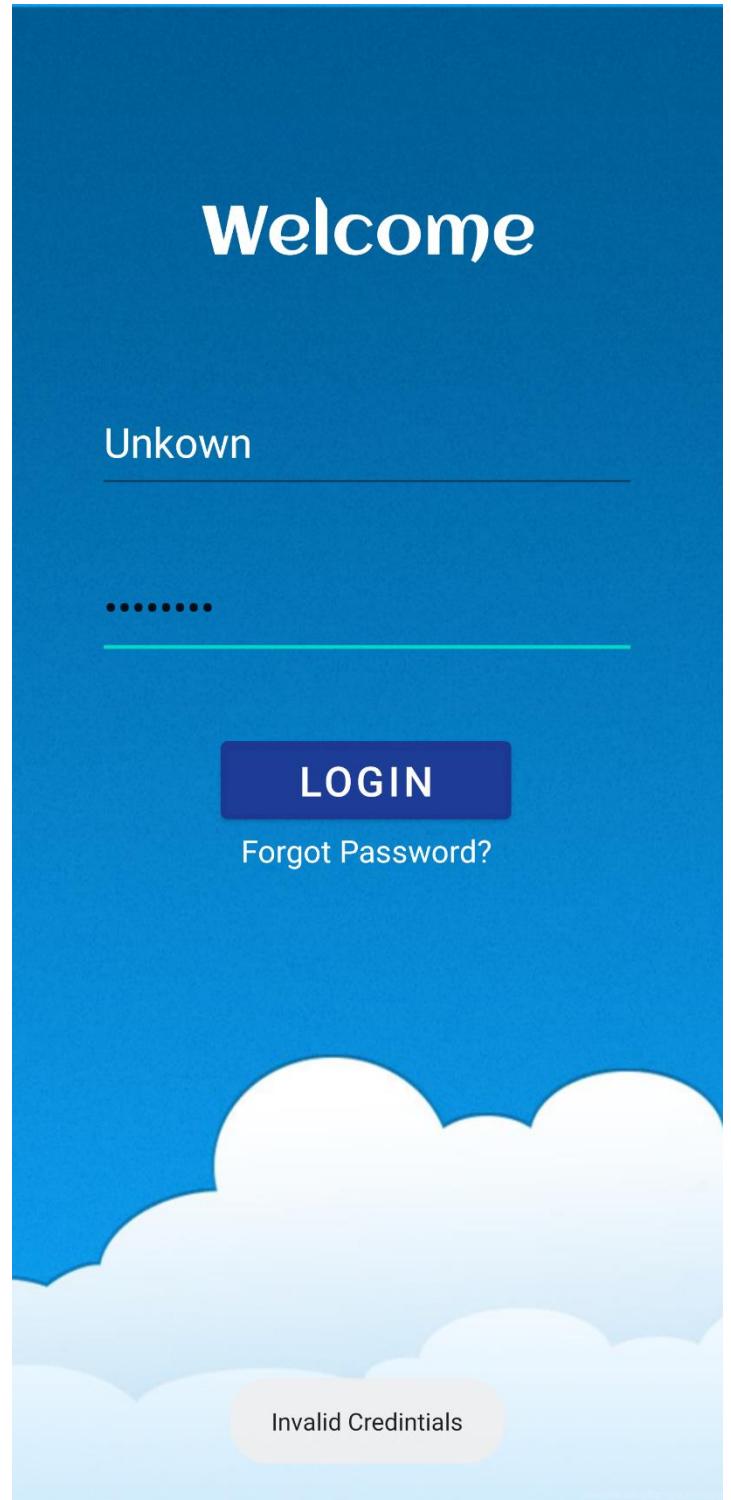
Course : MCS 272 Mobile Application (Program 03)

Output:

1. Welcome Screen

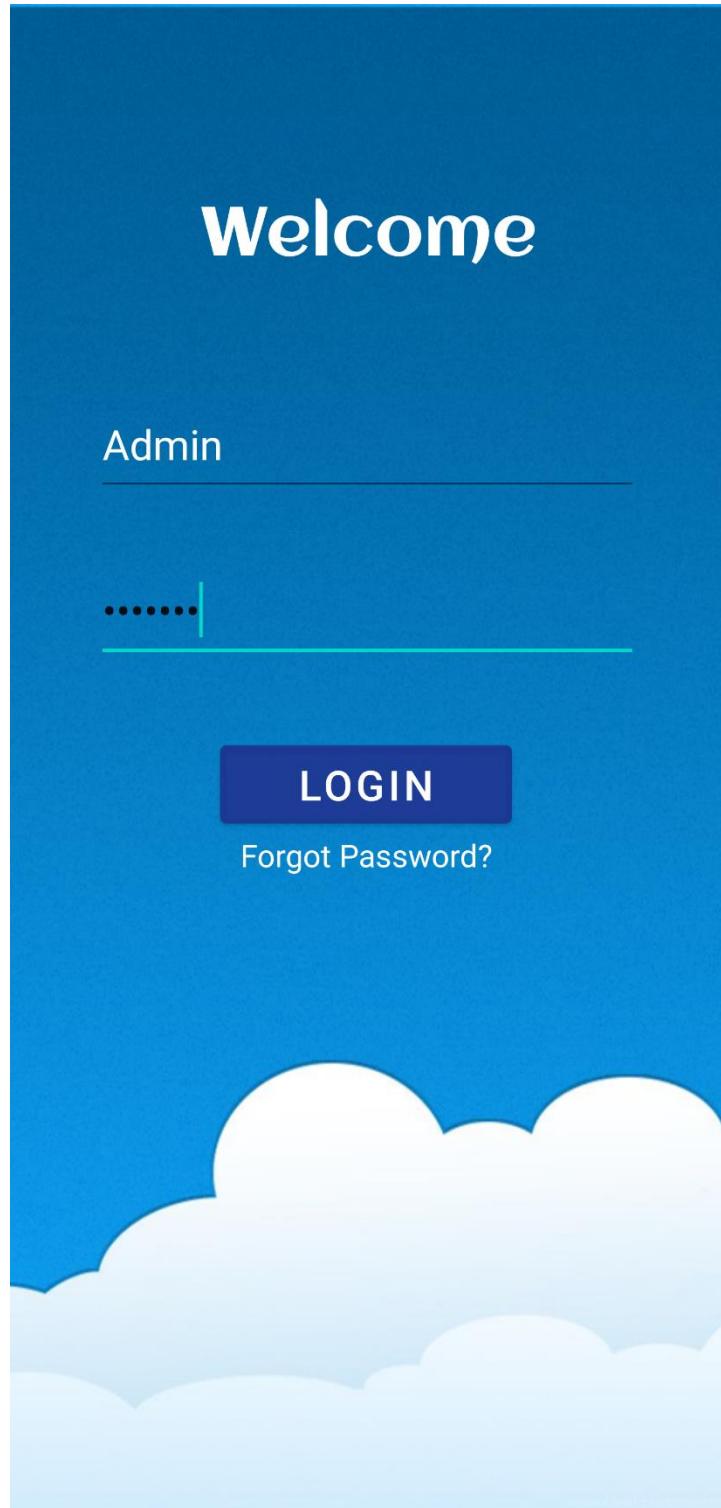


2. Invalid Login Credintials.

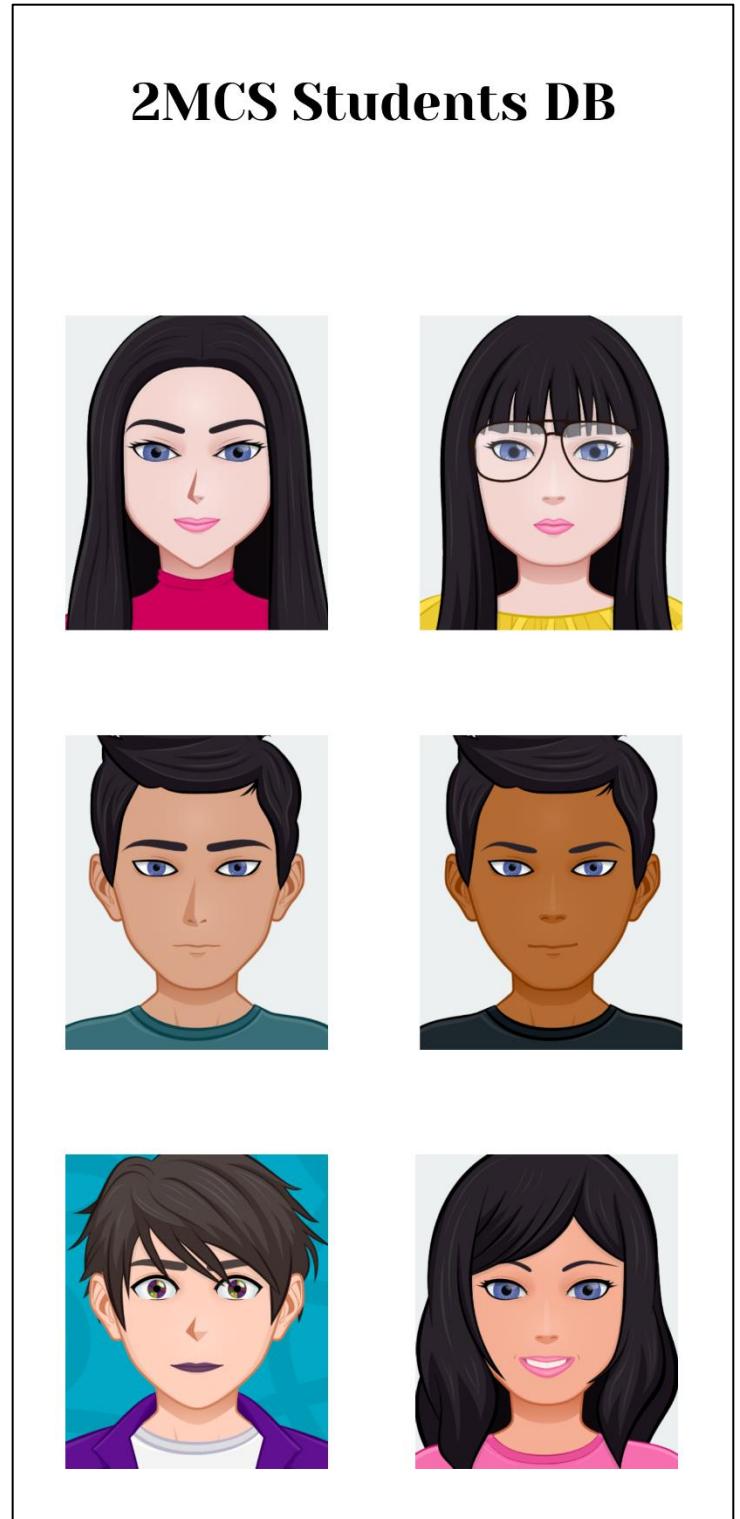


Note : Activity 2 welcome screen displays avatar of some students from 2 mcs. Clicking on a specific avatar switches to activity 3 displaying respective avatars details.

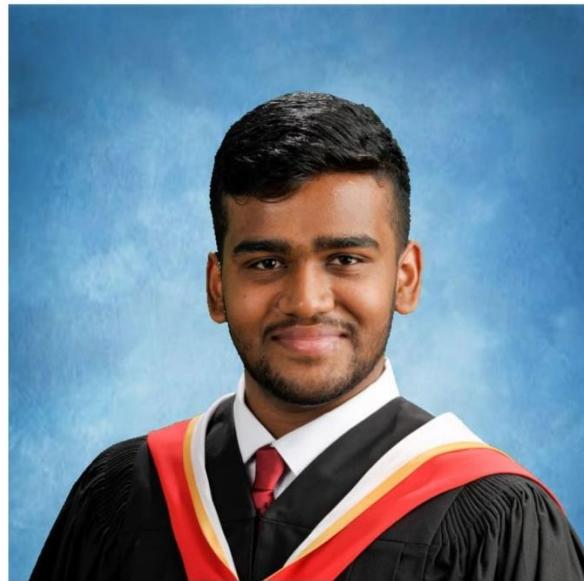
3. Correct Login Credentials.



4. Activity 2 welcome screen.



5. Raj avatar takes to respective details in activity 3.



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6. Clicking on Raj phone icon – takes to dial pad.



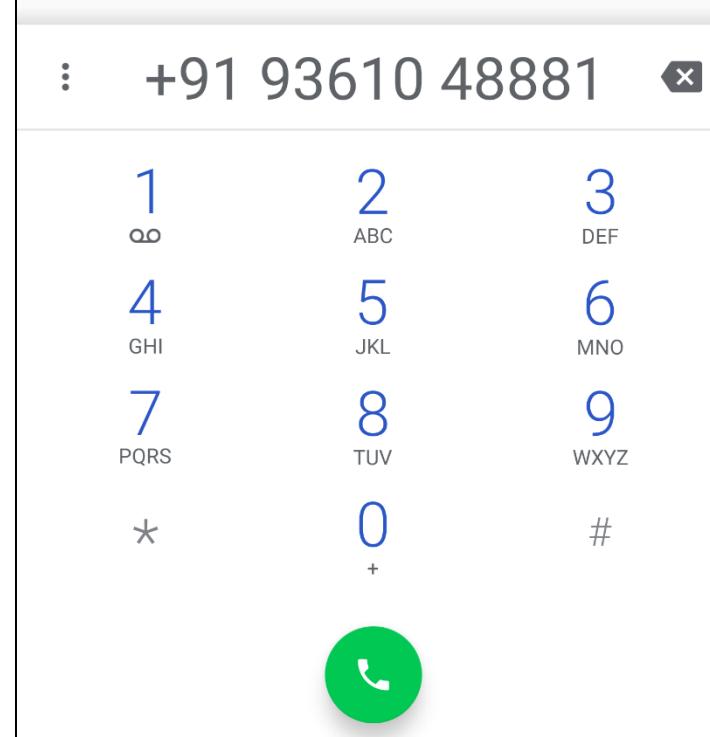
Create new contact



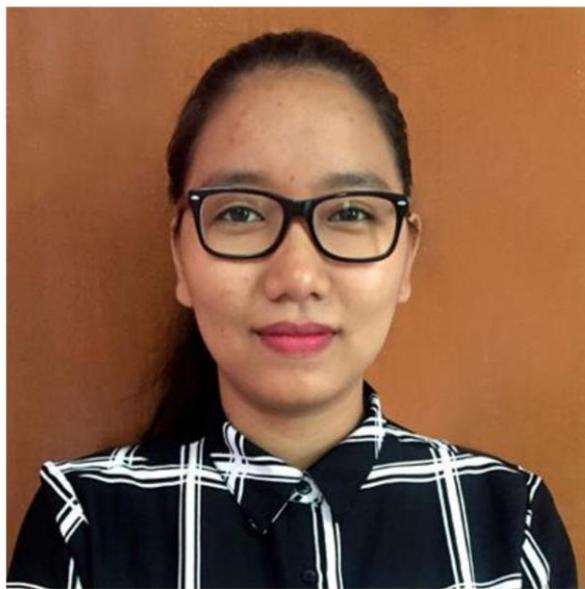
Add to a contact



Send SMS



7. Chui details.



Name : Gaichuiliu
Reg.No : 2047133
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8. Chui phone number.

Create new contact

Add to a contact

Send SMS

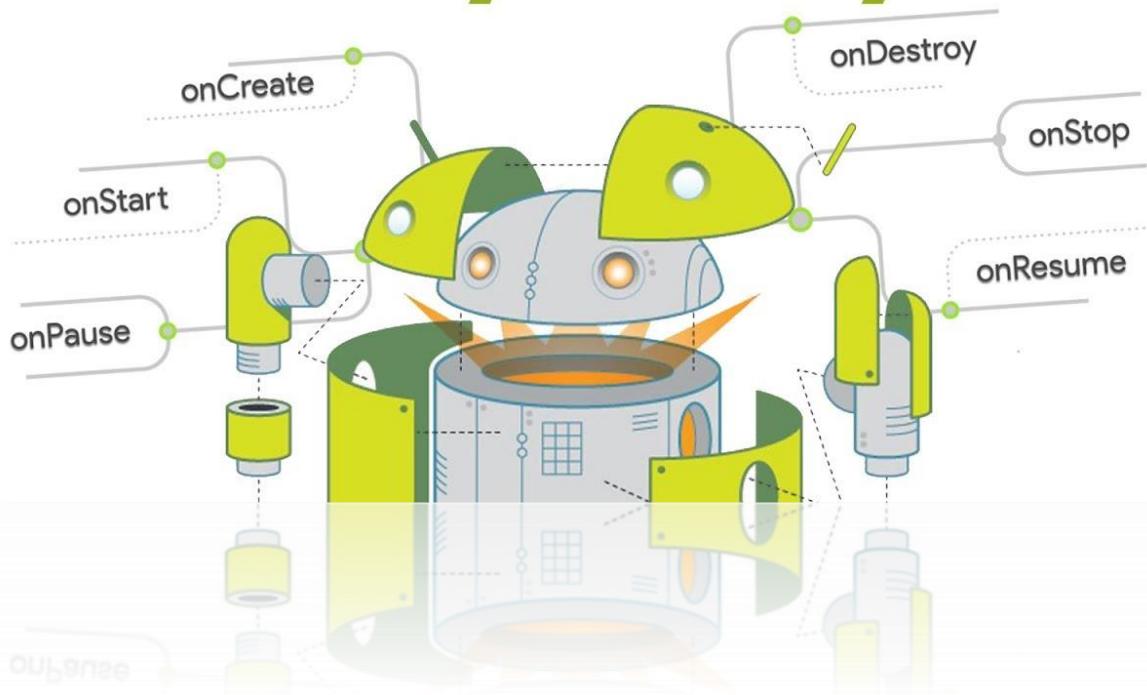
⋮ +91 95973 24912 ⌂

1	2	3
0	ABC	DEF
4	5	6
GHI	JKL	MNO
7	8	9
PQRS	TUV	WXYZ
*	0	#
	+	



The code used in the Main Activity, XML layout, Splash scree, button ripple effect is attached below for reference.

Activity Lifecycle



Lab 04 : Android
Activity Life Cycle

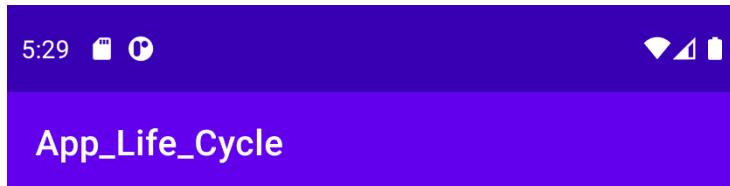
Name : Rajkumar B L

Reg.No : 2047120

Course : MCS 272 Mobile Application (App-Cycle)

Output:

1. Welcome_App Created



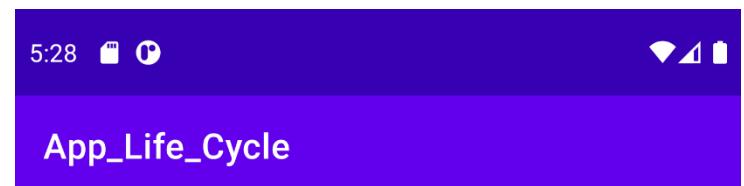
Fortune Cookie

Welcome

START

Welcome_Activity Created

2. Welcome_App Started



Fortune Cookie

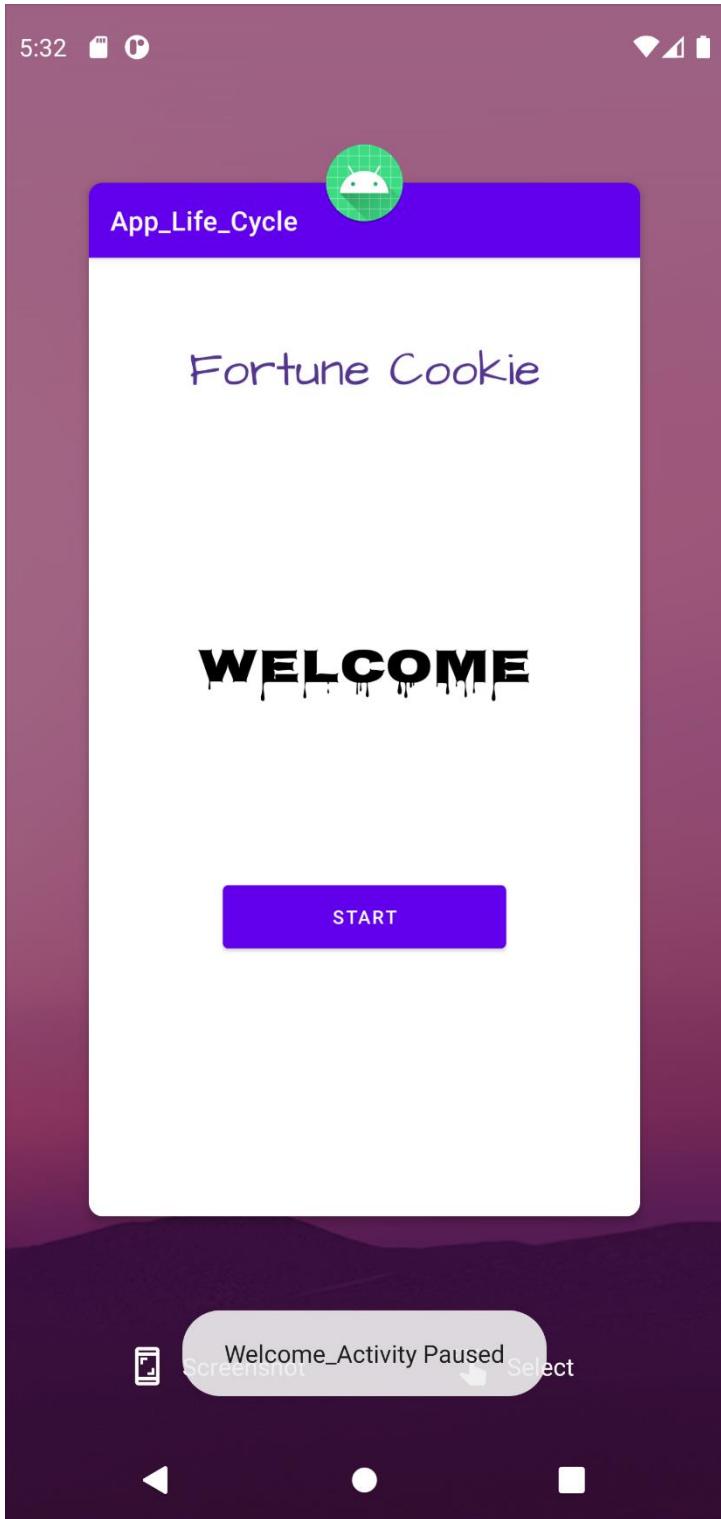
WELCOME

START

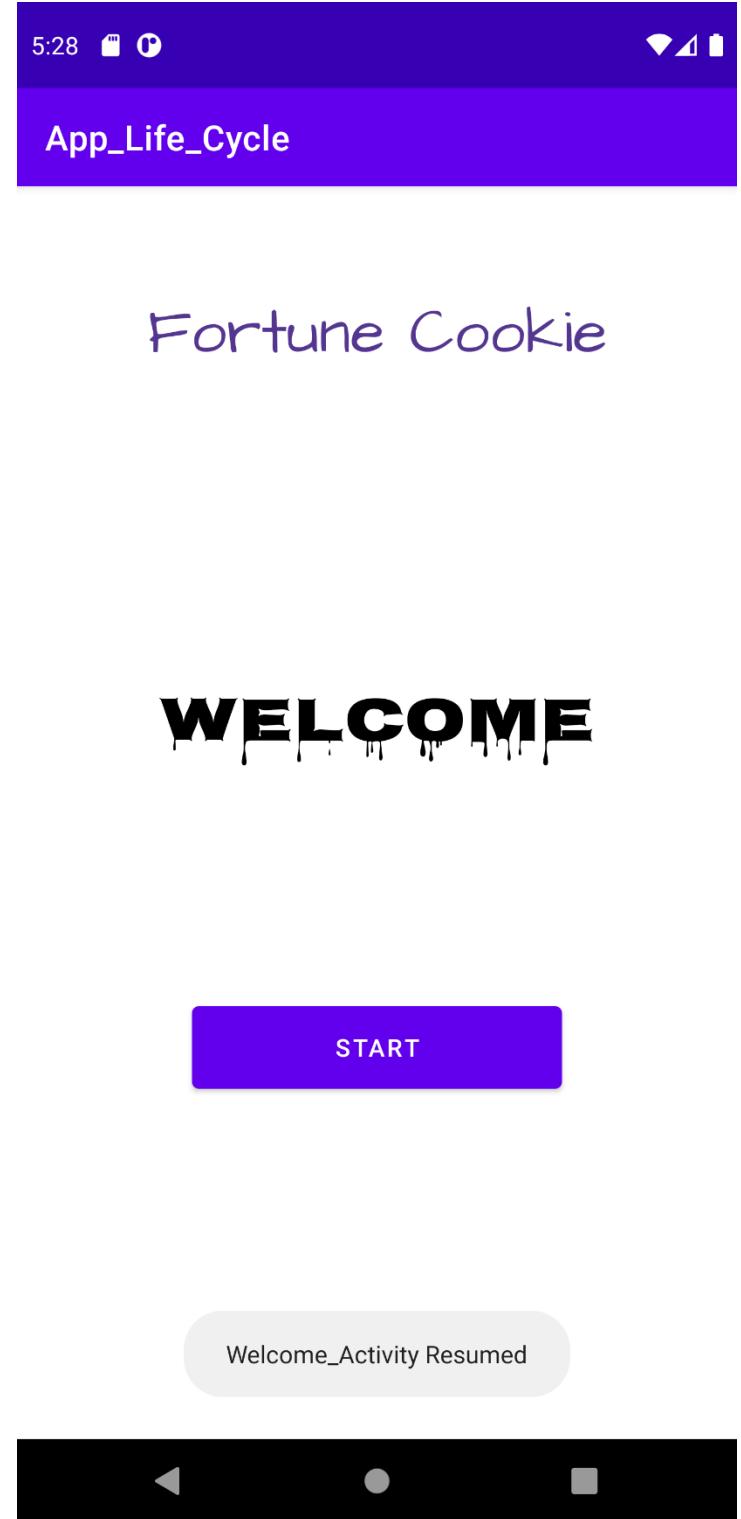
Welcome_Activity Started

Note : Activity 2 welcome screen displays avatar of some students from 2 mcs. Clicking on a specific avatar switches to activity 3 displaying respective avatars details.

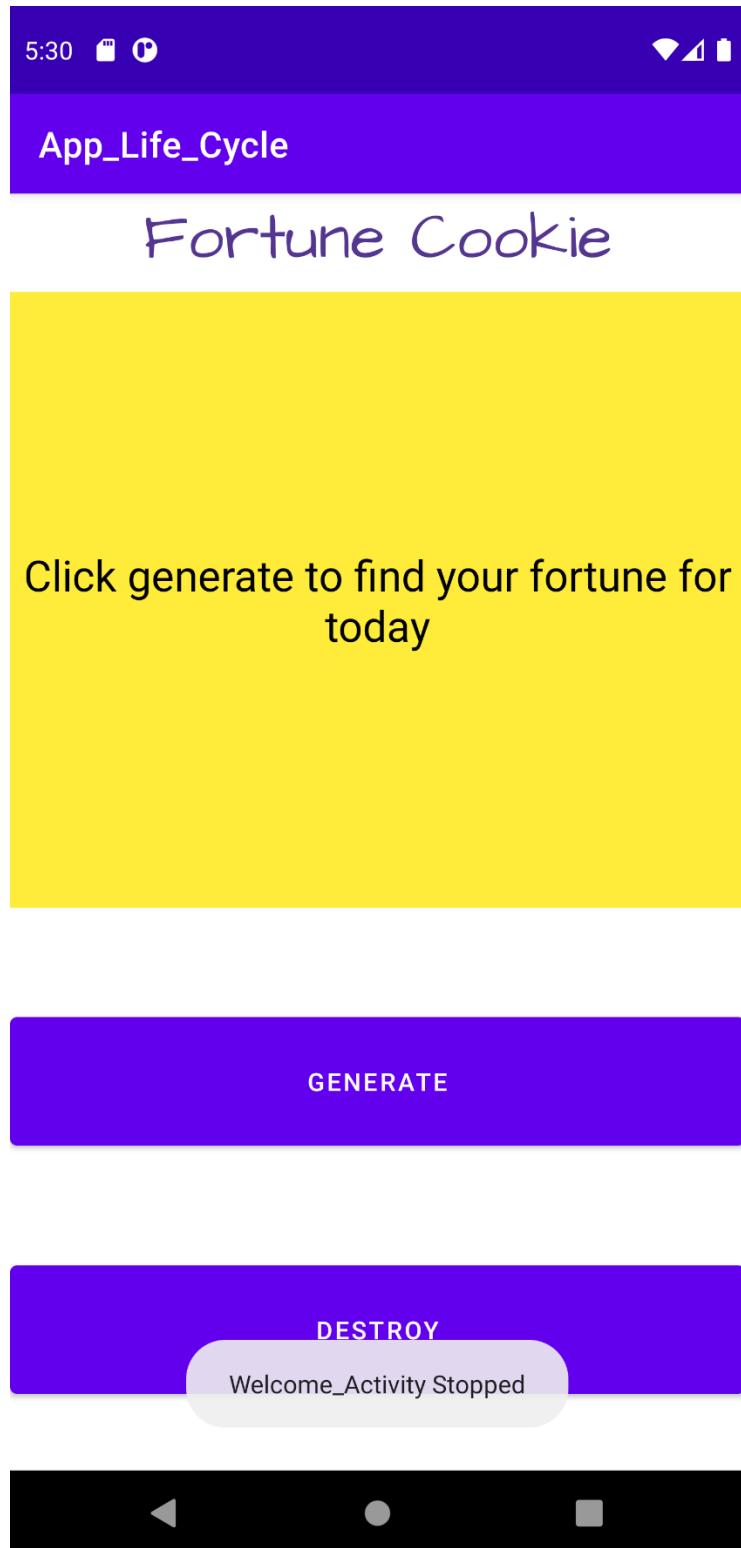
3.Welcome_App Paused



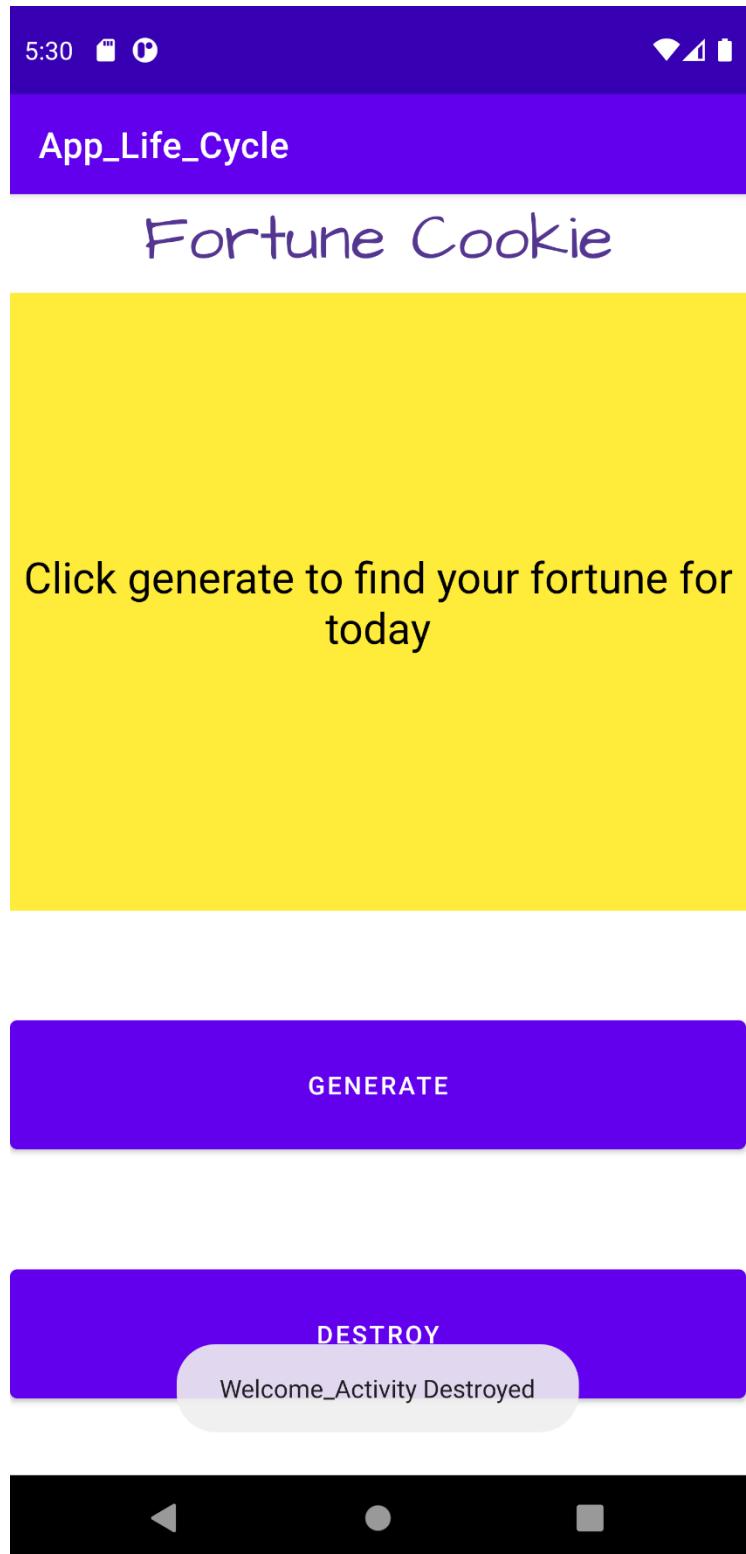
4. Welcome_App Started



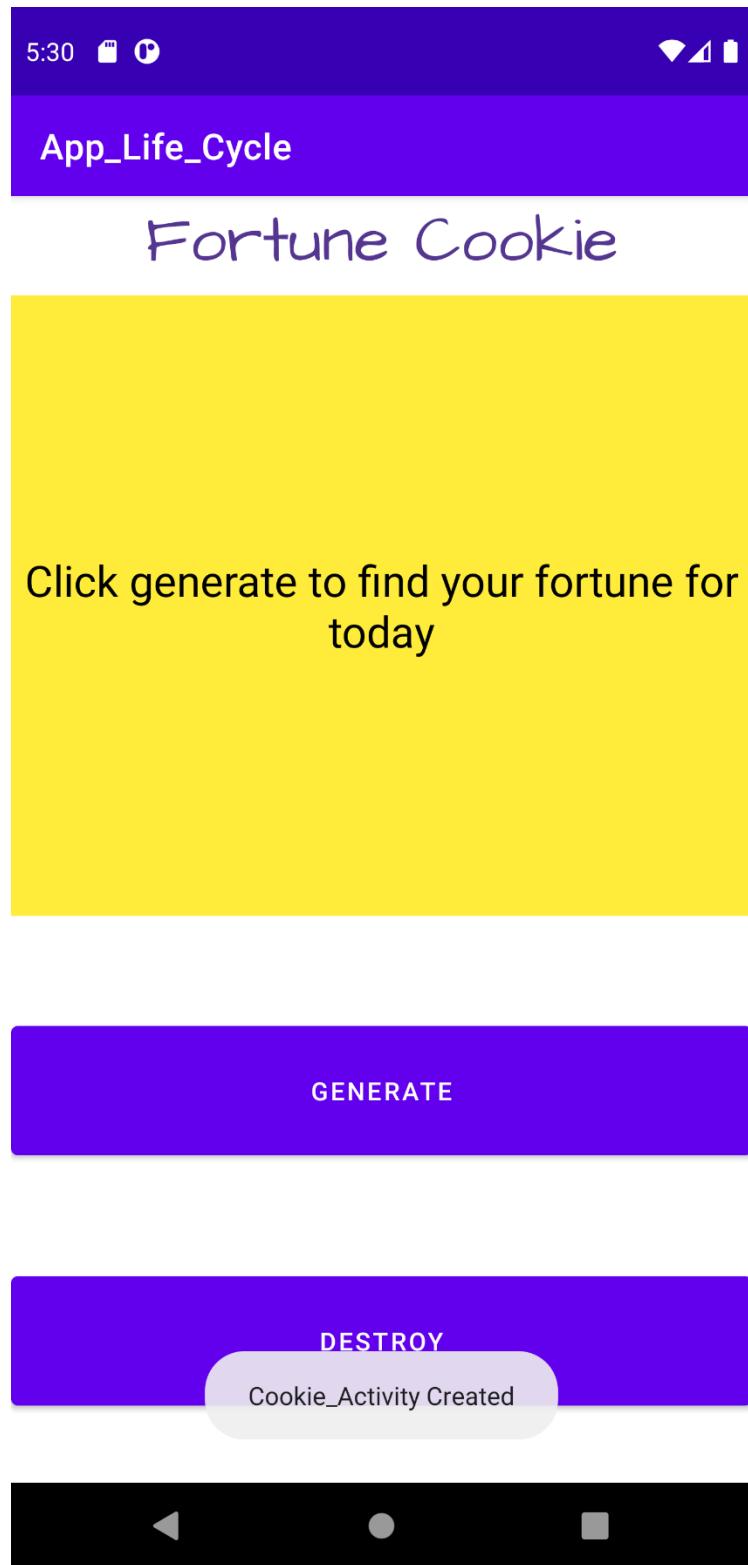
5.Welcome_App Stopped



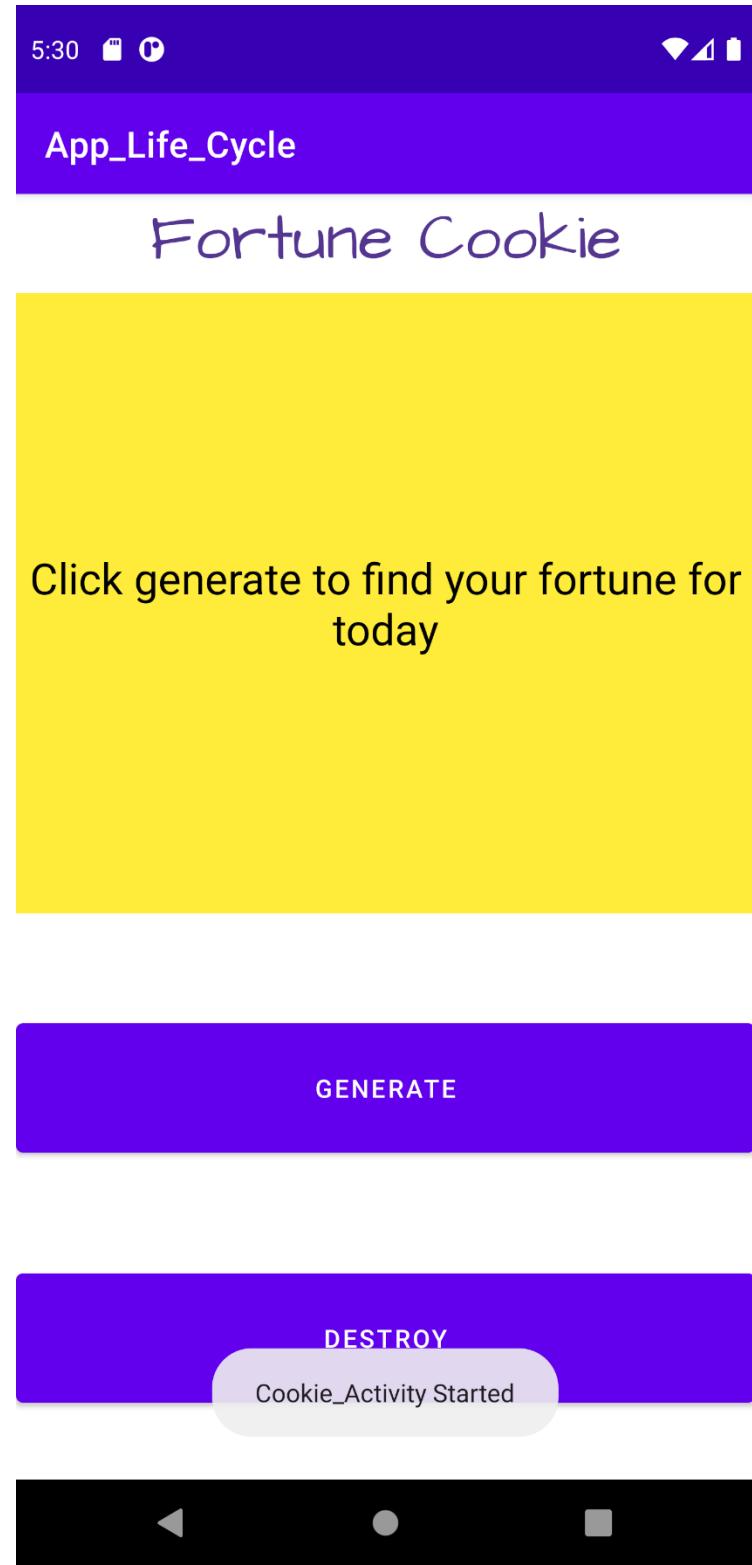
6. Welcome_App Destroyed



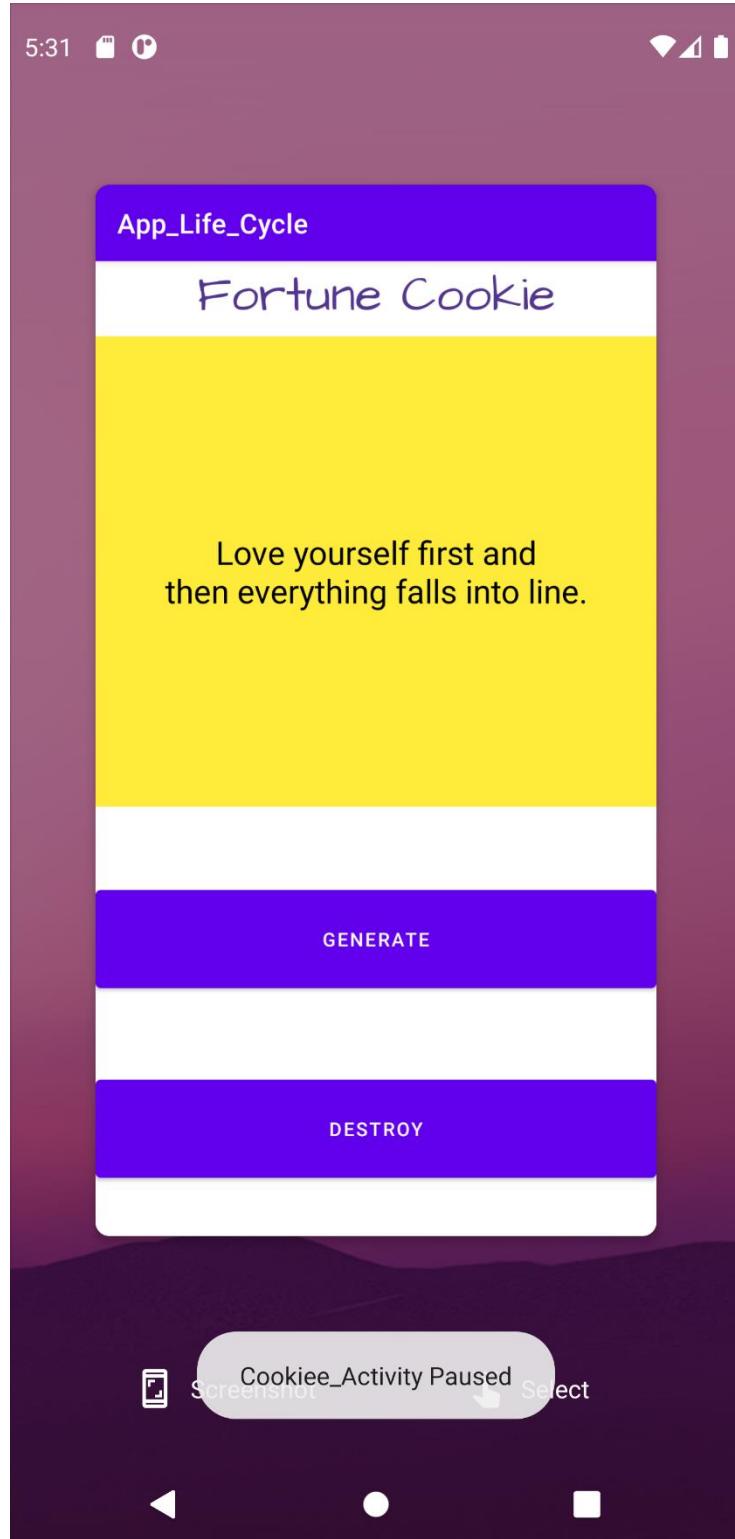
7.Cookie_App Created



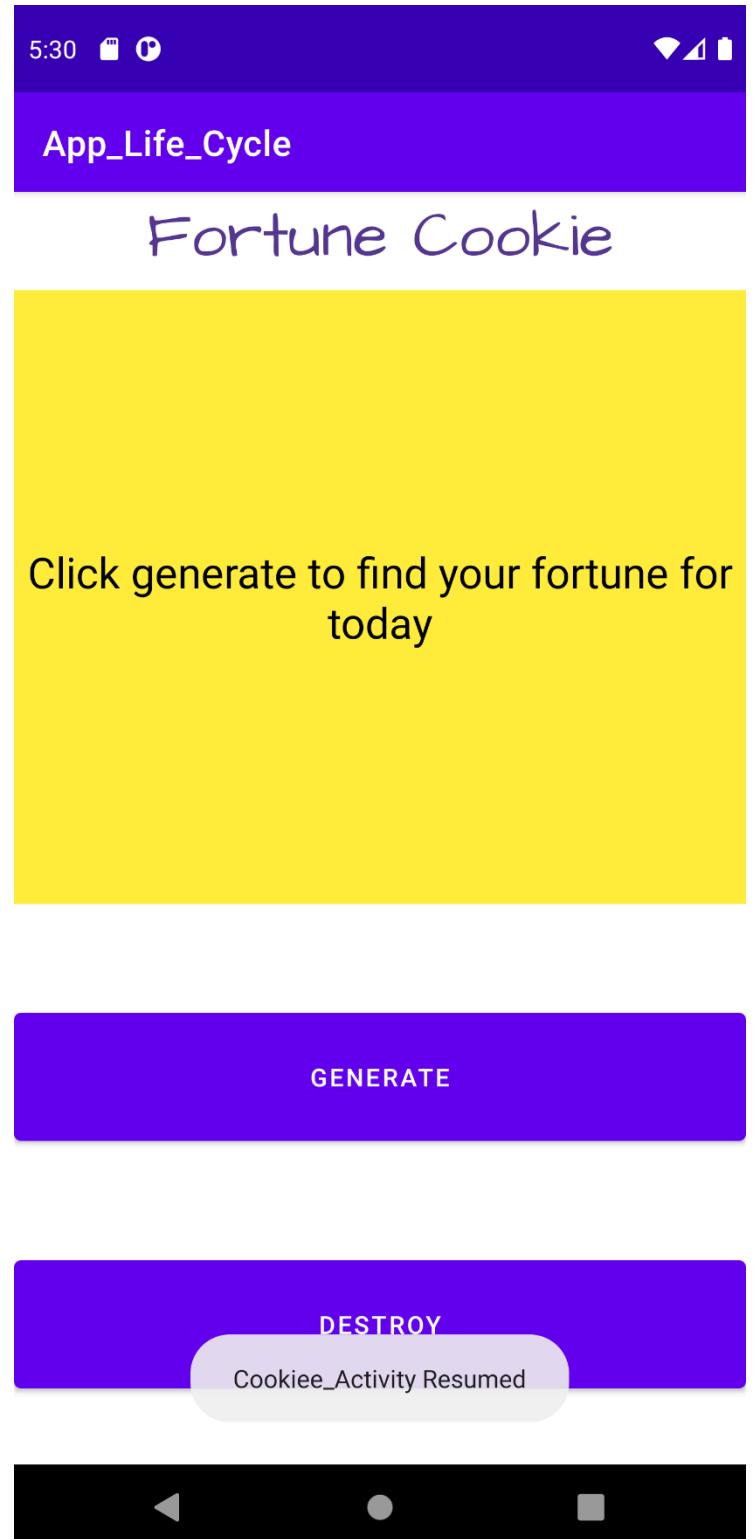
8. Cookie_App Started



9. Cookie_App Paused



10. Cookie_App Resumed



Log-Cat

This screenshot shows the Android Logcat interface. The device is set to 'Emulator Pixel_4_XL_Ar' and the package is 'com.example.app_life_cycle'. The log level is set to 'Verbose'. The search bar contains a placeholder 'Q'. The 'Regex' checkbox is checked. The 'Show only selected applic' dropdown is open. The log output is titled 'logcat' and shows several entries from February 8, 2021, at 18:01:54.182 to 18:02:19.714. The entries are mostly related to the Activity Lifecycle, such as 'HostConnection: HostComposition ext ANDROID_EMU_CH...' and various 'Cookie...' lifecycle methods being invoked.

```
2021-02-08 18:01:54.182 17276-17297/com.example.app_life_cycle D/govtutin-address-space: allocate: ioctl allocate
2021-02-08 18:01:54.182 17276-17297/com.example.app_life_cycle D/HostConnection: HostComposition ext ANDROID_EMU_CH...
2021-02-08 18:01:54.576 17276-17297/com.example.app_life_cycle I/OpenGLRenderer: Davey! duration=711ms; Flags=1, In...
2021-02-08 18:01:54.715 17276-17276/com.example.app_life_cycle I/Choreographer: Skipped 44 frames! The application...
2021-02-08 18:01:54.756 17276-17297/com.example.app_life_cycle I/OpenGLRenderer: Davey! duration=785ms; Flags=0, In...
2021-02-08 18:02:18.634 17276-17276/com.example.app_life_cycle D/Activity_Lifecycle: Welcome_onPause_Invoked
2021-02-08 18:02:18.913 17276-17276/com.example.app_life_cycle D/Activity_Lifecycle: Cookie_onCreate_Invoked
2021-02-08 18:02:18.929 17276-17276/com.example.app_life_cycle D/Activity_Lifecycle: Cookiee_onStart_Invoked
2021-02-08 18:02:18.946 17276-17276/com.example.app_life_cycle D/Activity_Lifecycle: Cookie_onResume_Invoked
2021-02-08 18:02:19.674 17276-17276/com.example.app_life_cycle D/Activity_Lifecycle: Welcome_onStop_Invoked
2021-02-08 18:02:19.714 17276-17276/com.example.app_life_cycle D/Activity_Lifecycle: Welcome_onDestroy_Invoked
```

Success: Operation succeeded (2 minutes ago)

This screenshot shows the Android Logcat interface. The device is set to 'Emulator Pixel_4_XL_Ar' and the package is 'com.example.app_life_cycle'. The log level is set to 'Verbose'. The search bar contains a placeholder 'Q'. The 'Regex' checkbox is checked. The 'Show only selected applic' dropdown is open. The log output is titled 'logcat' and shows several entries from February 8, 2021, at 18:04:47.902 to 18:05:00.366. The entries are mostly related to the Activity Lifecycle, such as 'Cookiee_onRestart_Invoked' and various 'Cookie...' lifecycle methods being invoked.

```
2021-02-08 18:04:47.802 17276-17276/com.example.app_life_cycle D/ACTIVITY_LIFECYCLE: COOKIE_onRestart_Invoked
2021-02-08 18:04:47.953 17276-17276/com.example.app_life_cycle D/Activity_Lifecycle: Cookiee_onStart_Invoked
2021-02-08 18:04:48.001 17276-17276/com.example.app_life_cycle D/Activity_Lifecycle: Cookie_onResume_Invoked
2021-02-08 18:04:48.578 17276-17297/com.example.app_life_cycle I/OpenGLRenderer: Davey! duration=755ms; Flags=1, In...
2021-02-08 18:04:56.627 17276-17276/com.example.app_life_cycle D/Activity_Lifecycle: Cookie_onPause_Invoked
2021-02-08 18:04:58.134 17276-17276/com.example.app_life_cycle D/Activity_Lifecycle: Cookie_onStop_Invoked
2021-02-08 18:04:59.590 17276-17276/com.example.app_life_cycle D/Activity_Lifecycle: Cookie_onRestart_Invoked
2021-02-08 18:04:59.786 17276-17276/com.example.app_life_cycle D/Activity_Lifecycle: Cookiee_onStart_Invoked
2021-02-08 18:04:59.942 17276-17276/com.example.app_life_cycle D/Activity_Lifecycle: Cookie_onResume_Invoked
2021-02-08 18:05:00.149 17276-17276/com.example.app_life_cycle I/Choreographer: Skipped 33 frames! The application...
2021-02-08 18:05:00.366 17276-17297/com.example.app_life_cycle I/OpenGLRenderer: Davey! duration=774ms; Flags=1, In...
```

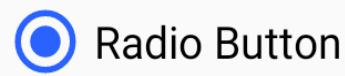
Success: Operation succeeded (3 minutes ago)

This screenshot shows the Android Logcat interface. The device is set to 'Emulator Pixel_4_XL_Ar' and the package is 'com.example.app_life_cycle'. The log level is set to 'Verbose'. The search bar contains a placeholder 'Q'. The 'Regex' checkbox is checked. The 'Show only selected applic' dropdown is open. The log output is titled 'logcat' and shows several entries from February 8, 2021, at 18:08:28.150 to 18:08:47.212. The entries are mostly related to the Activity Lifecycle, such as 'Cookiee_onPause_Invoked' and various 'Cookie...' lifecycle methods being invoked.

```
2021-02-08 18:08:28.150 17578-17578/com.example.app_life_cycle D/ACTIVITY_LIFECYCLE: COOKIE_onPause_Invoked
2021-02-08 18:08:29.073 17578-17578/com.example.app_life_cycle I/Choreographer: Skipped 36 frames! The application...
2021-02-08 18:08:29.800 17578-17578/com.example.app_life_cycle D/Activity_Lifecycle: Cookie_onStop_Invoked
2021-02-08 18:08:34.252 17578-17578/com.example.app_life_cycle D/Activity_Lifecycle: Cookie_onRestart_Invoked
2021-02-08 18:08:34.353 17578-17578/com.example.app_life_cycle D/Activity_Lifecycle: Cookiee_onStart_Invoked
2021-02-08 18:08:34.401 17578-17578/com.example.app_life_cycle D/Activity_Lifecycle: Cookie_onResume_Invoked
2021-02-08 18:08:34.451 17578-17590/com.example.app_life_cycle I/.app_life_cycl: CollectorTransition concurrent cop...
2021-02-08 18:08:41.828 17578-17578/com.example.app_life_cycle D/Activity_Lifecycle: Cookie_onPause_Invoked
2021-02-08 18:08:43.001 17578-17598/com.example.app_life_cycle I/OpenGLRenderer: Davey! duration=758ms; Flags=1, In...
2021-02-08 18:08:43.115 17578-17578/com.example.app_life_cycle D/Activity_Lifecycle: Cookie_onStop_Invoked
2021-02-08 18:08:47.212 17578-17578/com.example.app_life_cycle D/Activity_Lifecycle: Cookie_onDestroy_Invoked
```

Success: Operation succeeded (a minute ago)

The code used in the Main Activity, XML layout is attached below for reference.



Radio Button



Checkbox

Switch



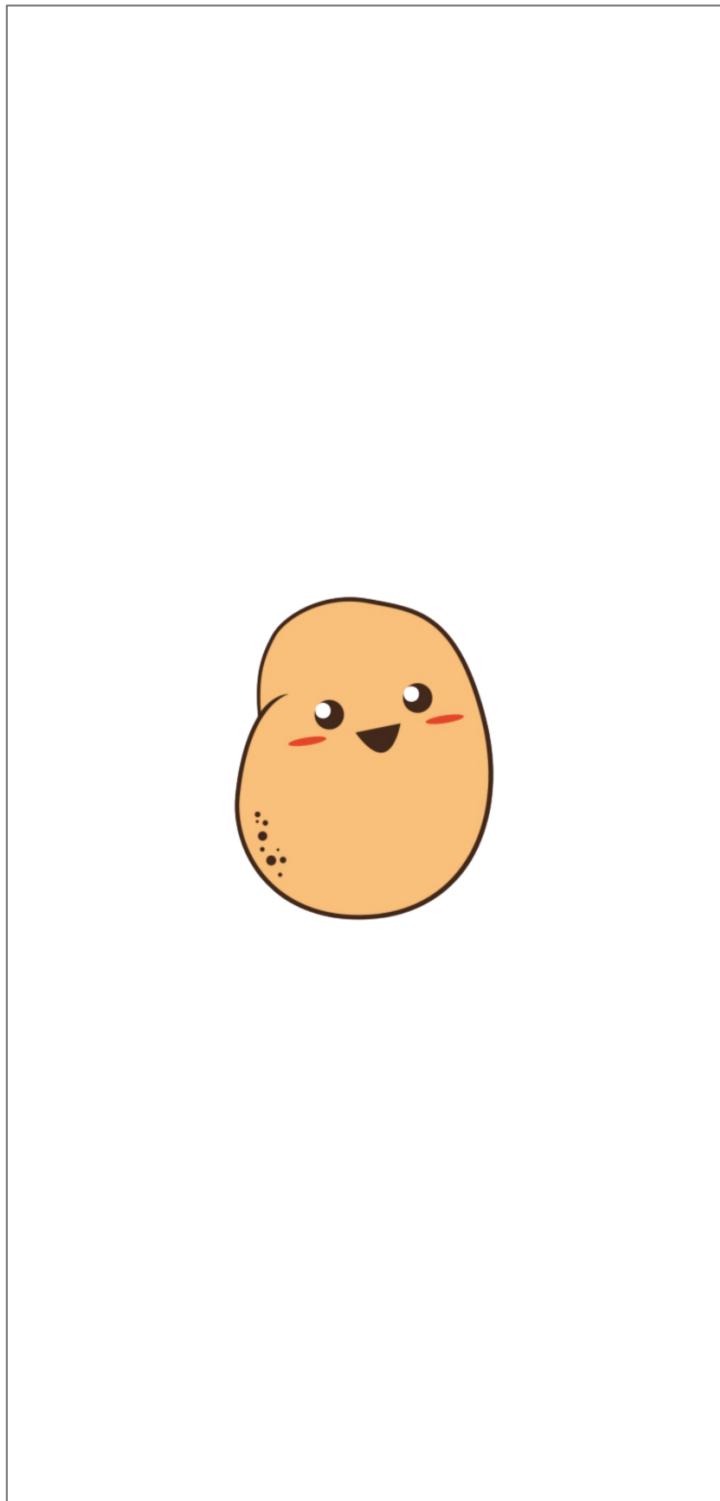
Lab 05 : Input Control

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Course : MCS 272 Mobile Application
(Lab 05 – Fotato Eats)

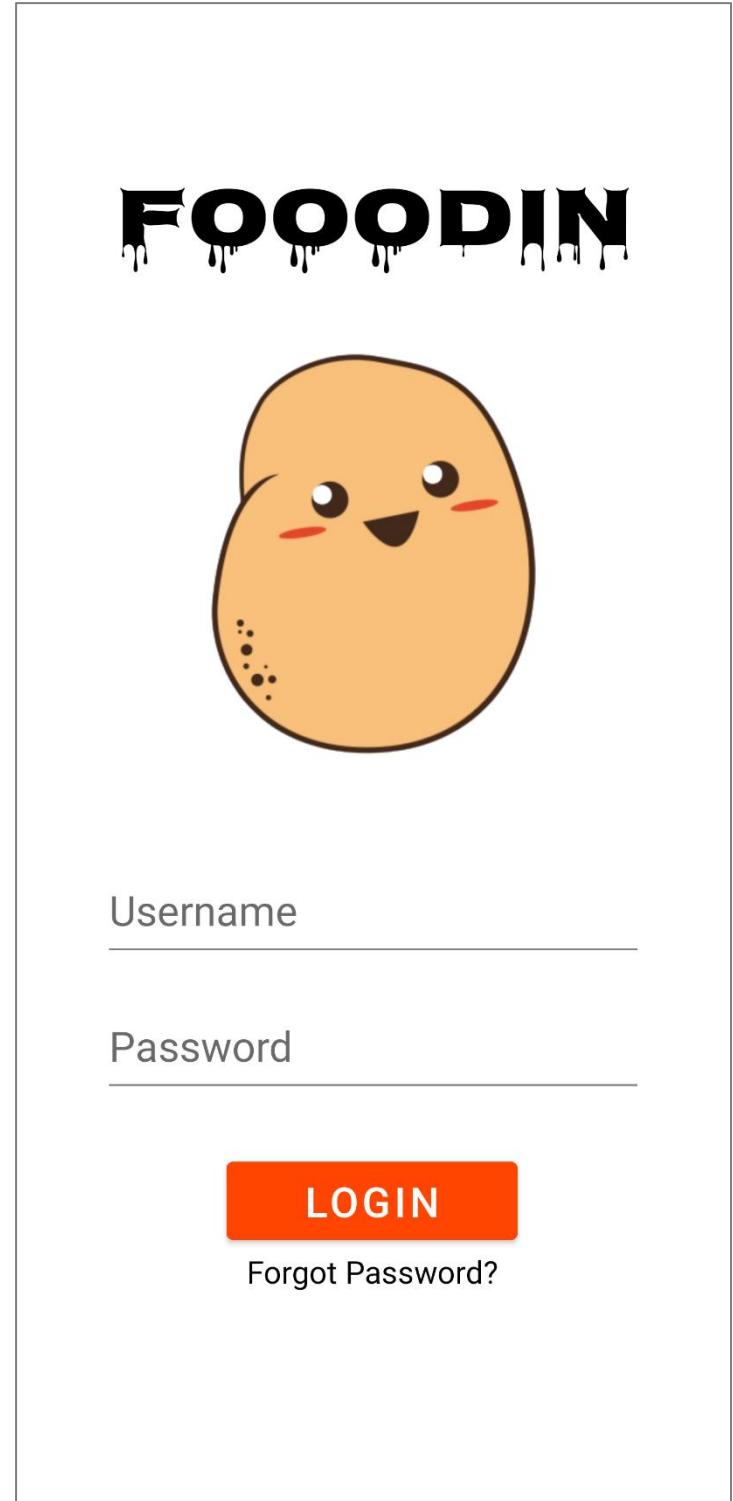


Output:

1. Splash Screen



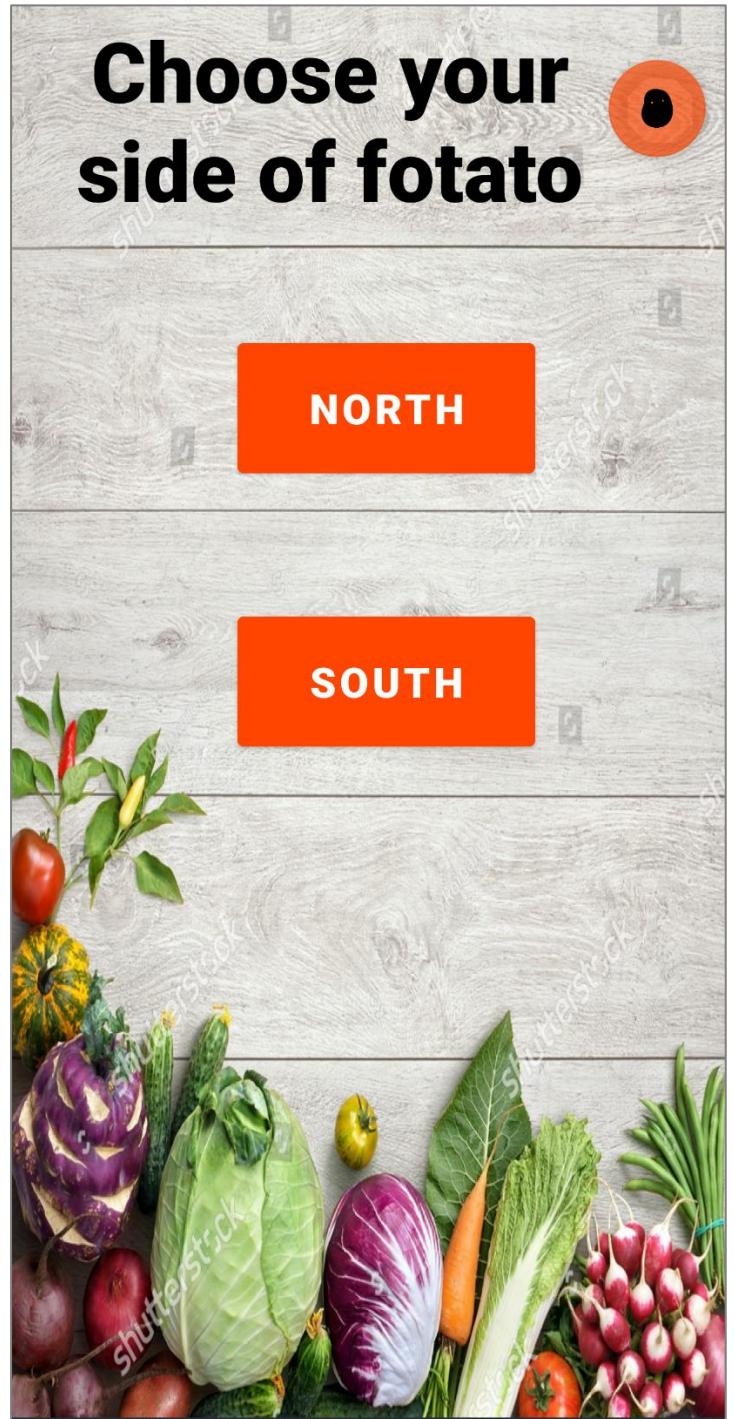
2. Welcome Screen



3. Login Page (TextView,EditText)



4. Food Type (Button, Float)



5. South Menu(Image Button)

South Menu

The menu is presented in a 3x2 grid. Top row: idli (steamed rice cakes), dosa (thin crepes). Middle row: vada (fritters), potato paniyaram (potato fritters). Bottom row: dosai (large crepes), upma (semolina porridge).

6. Item(WebView, CheckBox)

Idli

Preparation Method:

Menu DASSANA'S
VEG RECIPES Search

[Home](#) » [Recipes](#) » [Andhra Recipes](#)

Andhra Style Idli With Rice Rava (Idli Rava)

By **Dassana Amit**
Last Updated: December 8, 2019

4.86 from 28 votes • [159 Comments](#)

Combo Items:

Vadai Veg Roll Samosa
 Tea Cofee

Spice Level:

Quantity:

7. Input (Spinner)

Preparation Method:

1 

2

3 

4

5 **Andhra Style Idli With (Idli Rava)**

6

7

8  By Dassana Last Updated: September 8, 2019

9  4.8 • 159 Comments

10 Combo Items:

11 Vada Veg Roll Samosa

12 Tea Cofee

13 Spice Level:

14 

15 

16 Quantity: 5

8. Input (Rating Bar)

Preparation Method:

1 

2

3 

4

5 **Puttu Recipe | How To Make Kerala Puttu Recipe | Soft Rice Puttu Recipe**

6

7

8

9

10 Combo Items:

11 Vadai Veg Roll Samosa

12 Tea Cofee

13 Spice Level:

14 

15

16 ADD TO CART BACK

9. Cart before adding items



10. Idli added to cart (Snack Bar)

The screenshot shows a recipe card for "Andhra Style Idli With Rice Rava (Idli Rava)" from the "DASSANA'S VEG RECIPES" website. The card includes the preparation method, author information (Dassana Amit), last update date (December 8, 2019), and a 4.86 rating from 28 votes with 159 comments. It also lists combo items (Vadai, Veg Roll, Samosa, Tea, Cofee) and a spice level rating (3 stars). A quantity selector is set to 4. A message at the bottom states "Items added to cart".

Preparation Method:

Menu  DASSANA'S VEG RECIPES 

[Home](#) » Recipes » Andhra Recipes

Andhra Style Idli With Rice Rava (Idli Rava)

By [Dassana Amit](#)
Last Updated: December 8, 2019

★★★★★ 4.86 from 28 votes • [159 Comments](#)

Combo Items:

Vadai Veg Roll Samosa
 Tea Cofee

Spice Level:

★★★☆☆☆☆

Quantity: 4

Items added to cart

11. Cart after adding idli

Cart Items

Idli
Vadai
Veg Roll
Coffee
Spice Level: 2.0
Quantity: 4

Total: 40

CHECK OUT

BACK

12. Puttu added to cart (Snack Bar)

Preparation Method:

  DASSANA'S VEG RECIPES 

[Home](#) » Recipes » Breakfast Recipes

Puttu Recipe | How To Make Kerala Puttu Recipe | Soft Rice Puttu Recipe

Combo Items:

Vadai Veg Roll Samosa
 Tea Cofee

Spice Level:



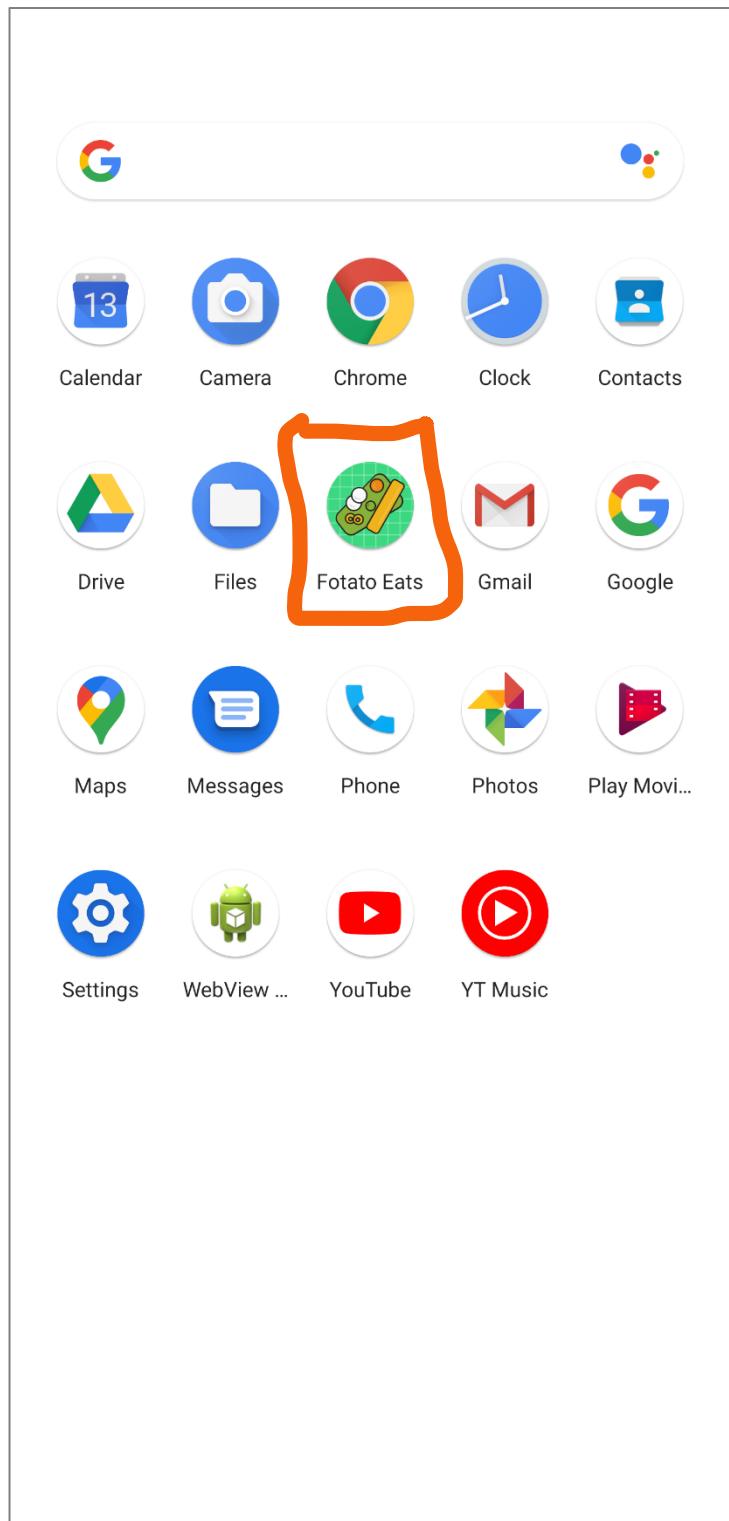
Quantity: 5

ADD TO CART **BACK**

13. Cart after adding puttu

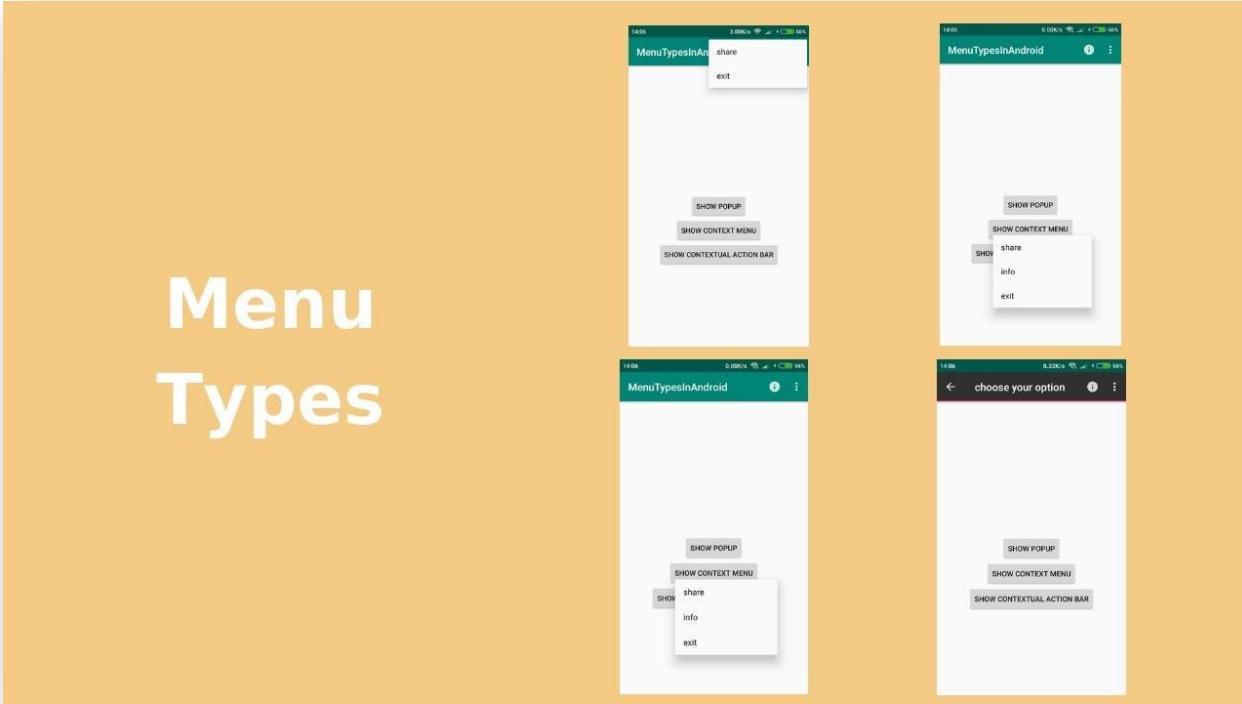


14. App Icon



The code used in the Main Activity, XML layout, Splash screen, button ripple effect is attached below for reference.

Menu Types

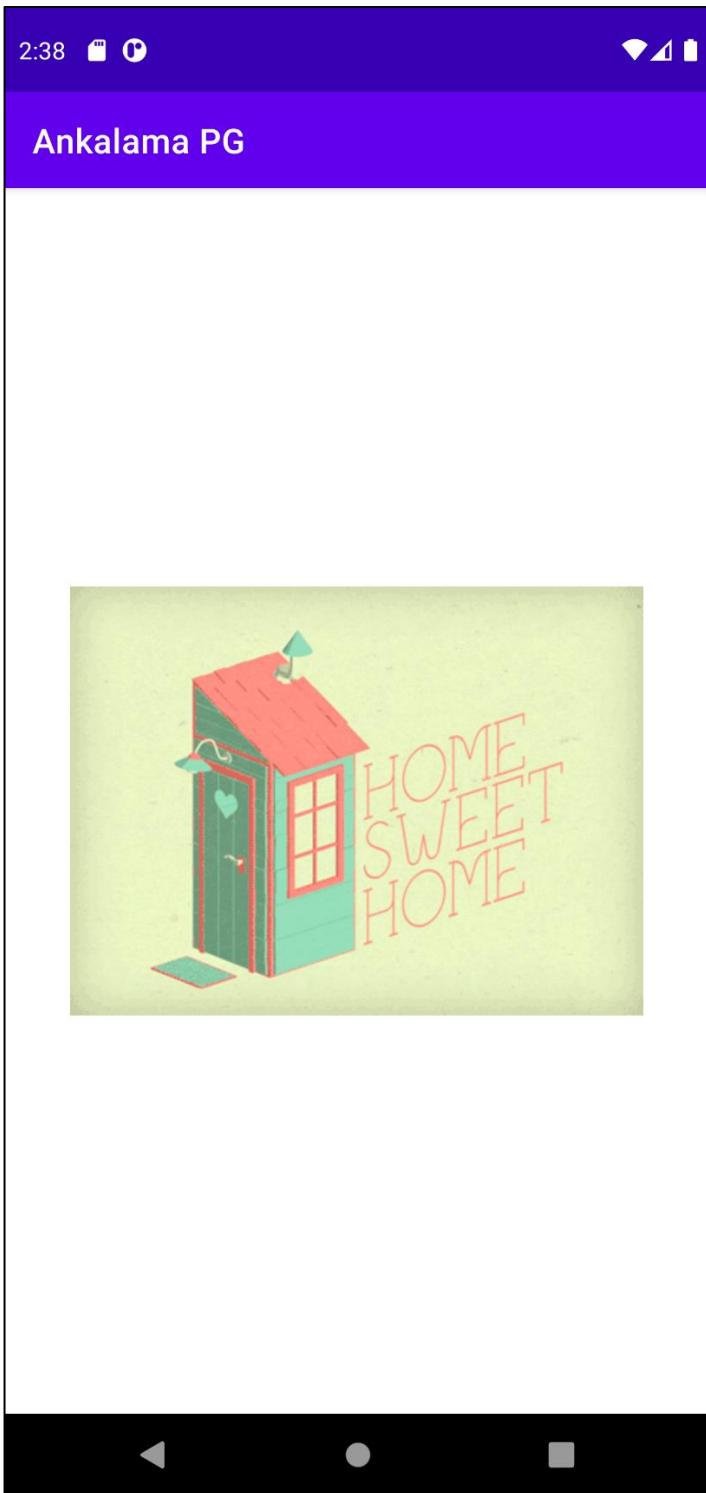


Lab 06 : Menu

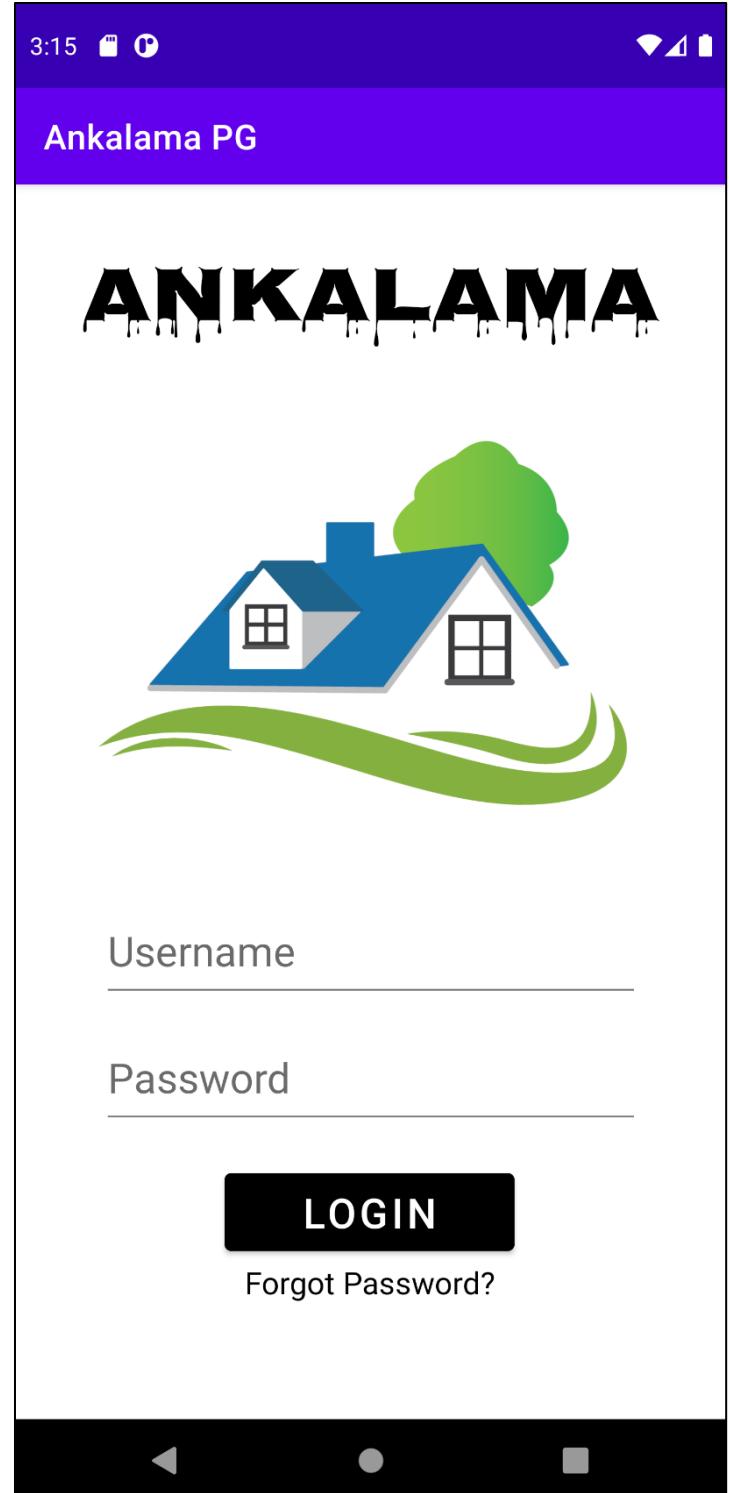
Name : Rajkumar B L
Reg.No : 2047120
Course : MCS 272 Mobile Application
(Lab 06 – Ankalama PG)

Output:

1. Splash Screen



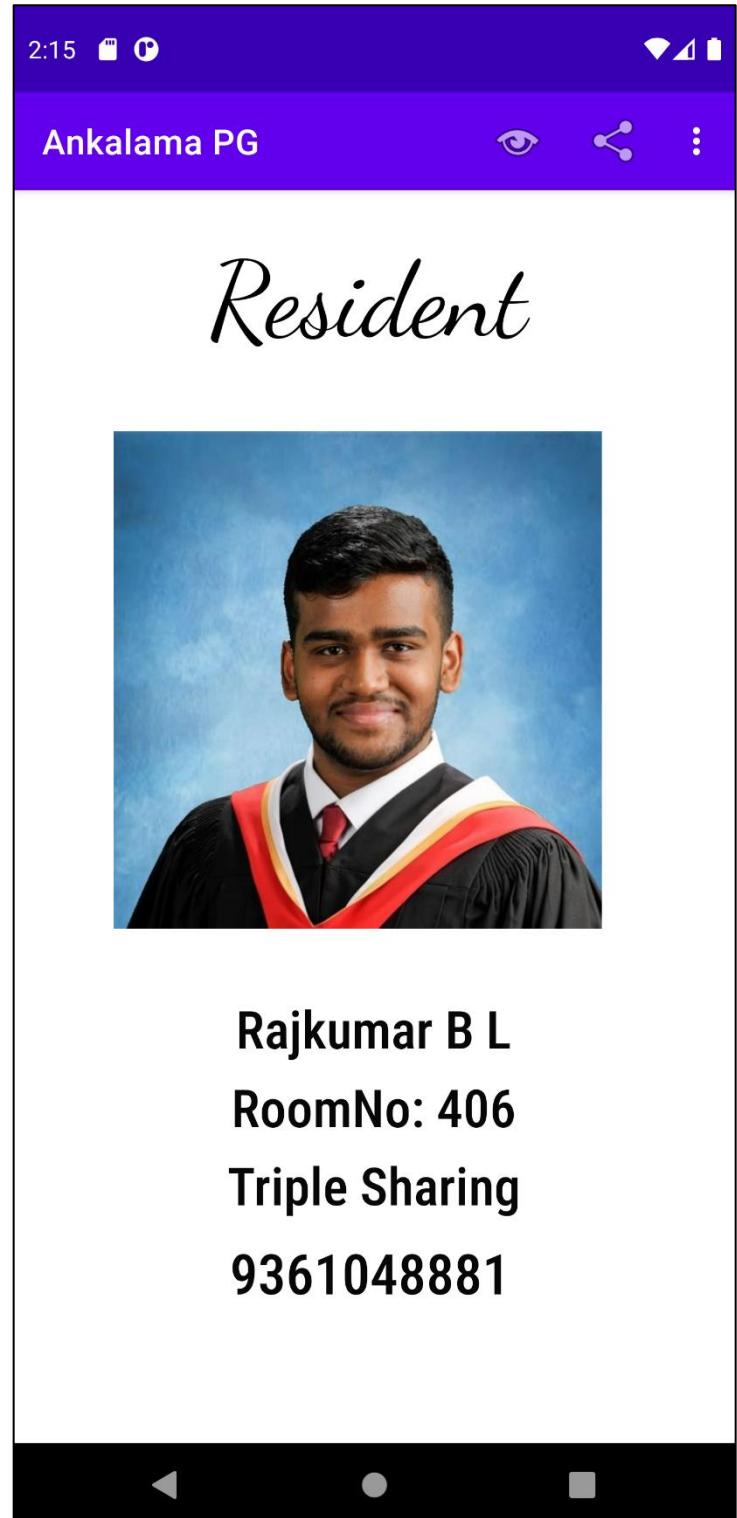
2. Welcome Screen



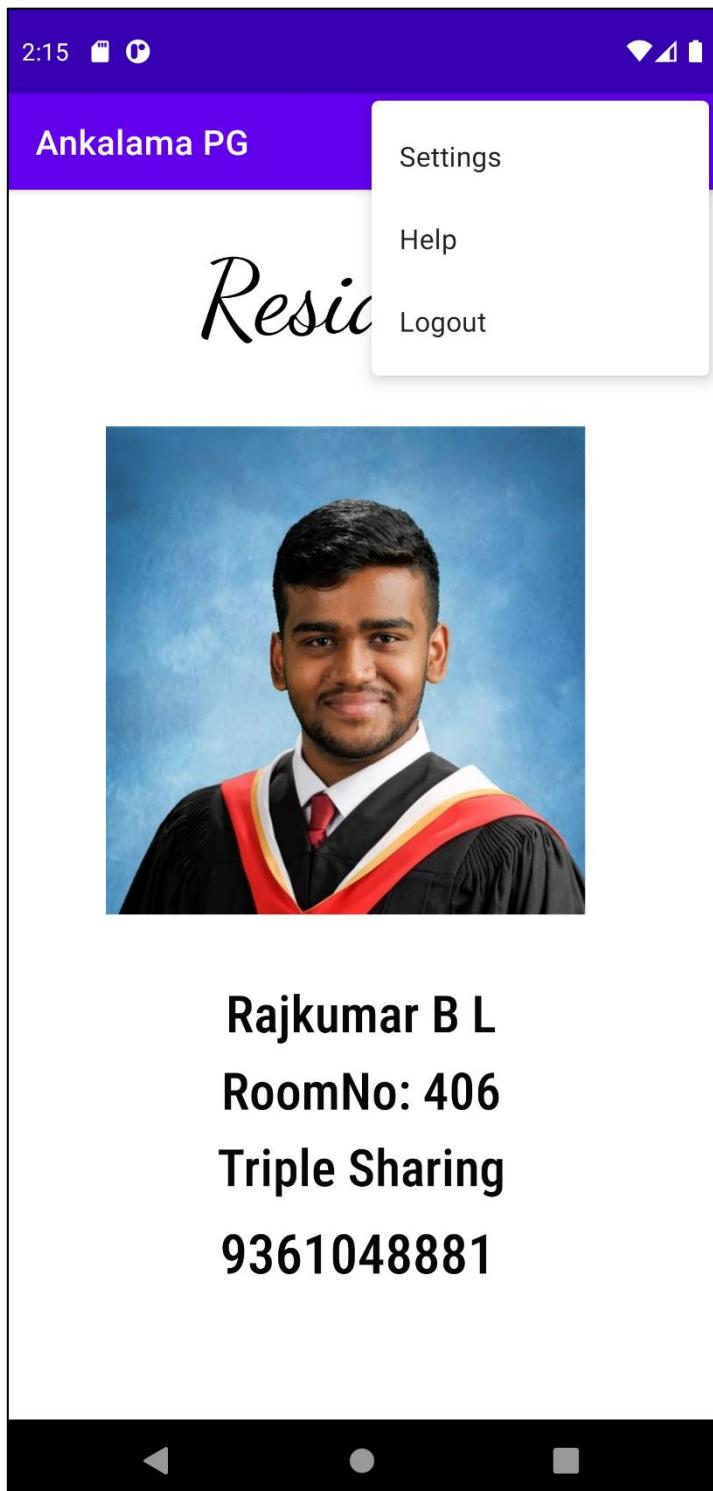
3. Login



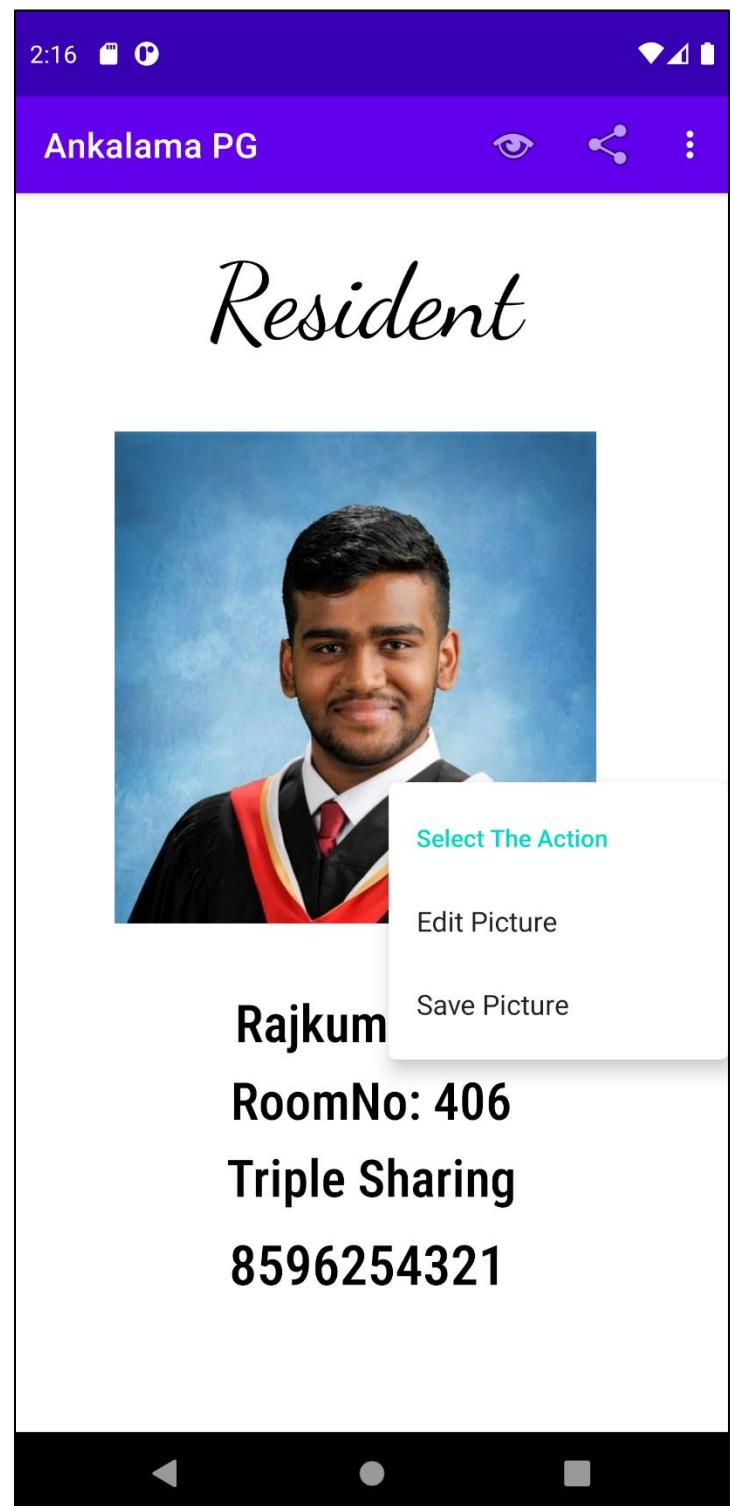
4. Resident Detail (Option Menu)



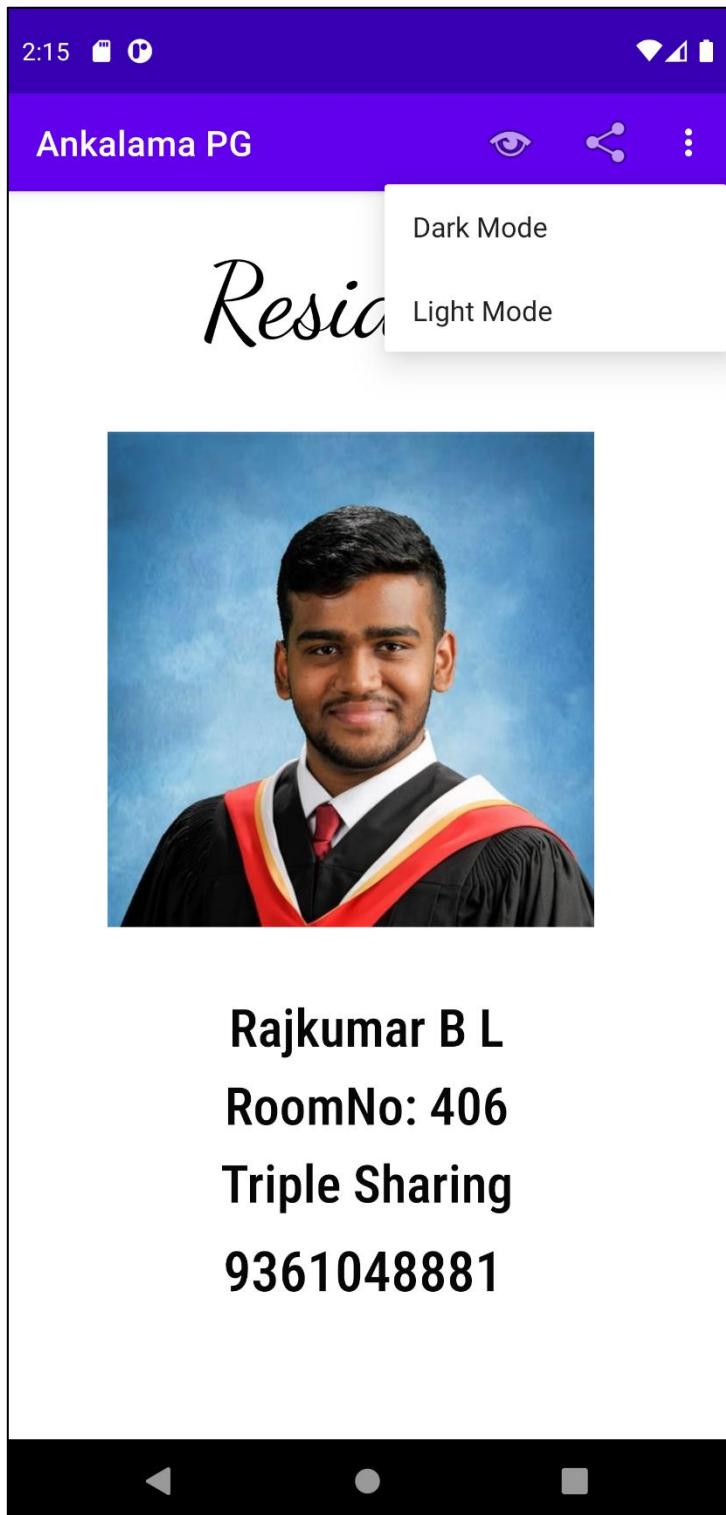
5. Option Overflow



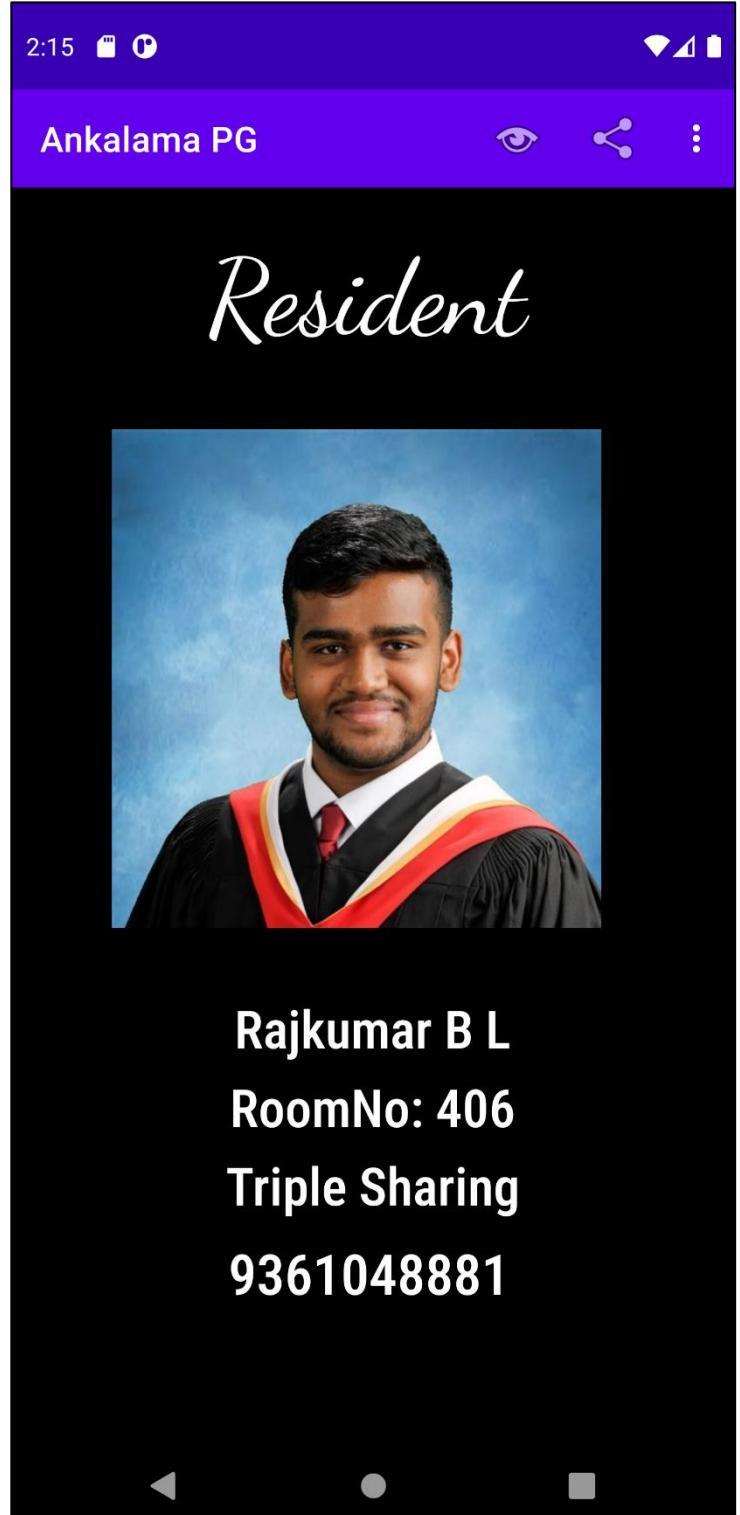
6. Contextual Float Menu



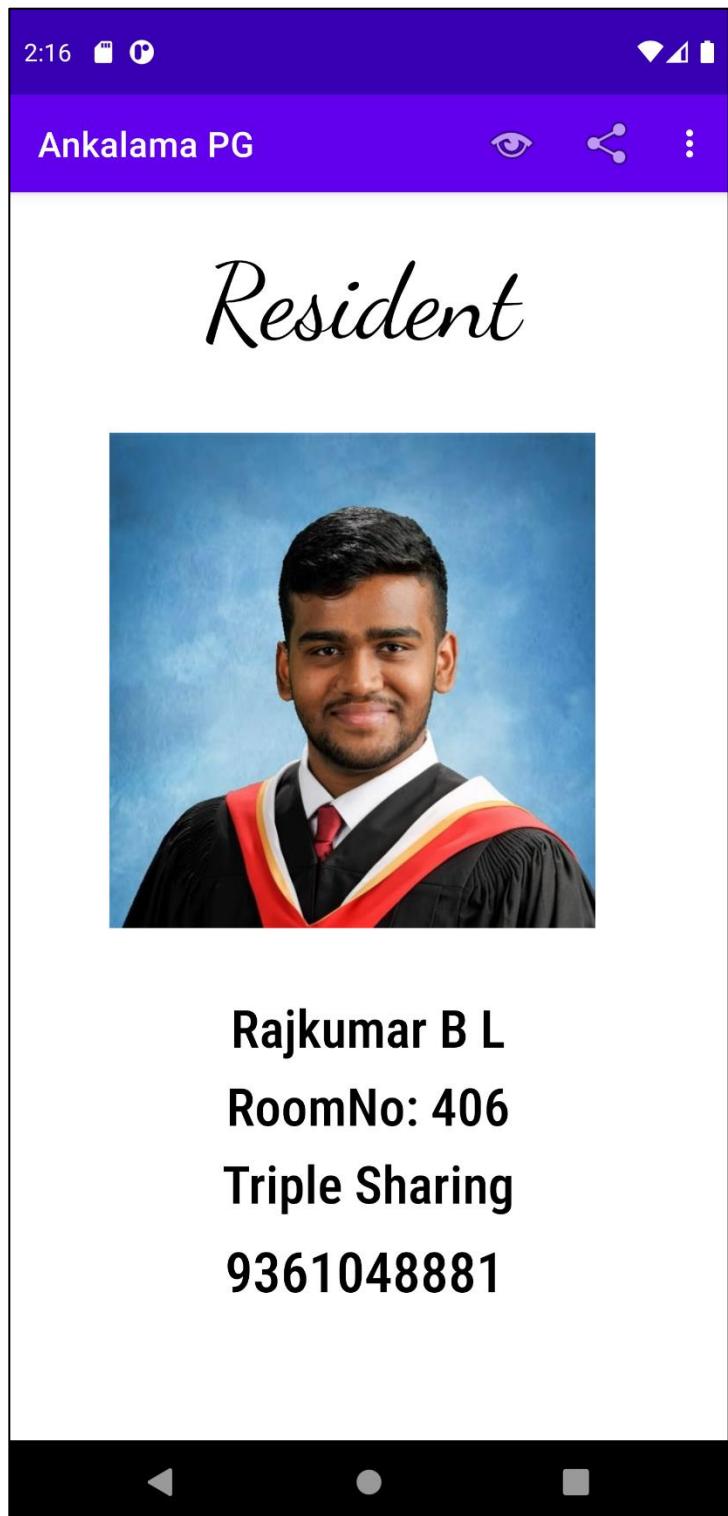
7. Popup Menu(View Modes)



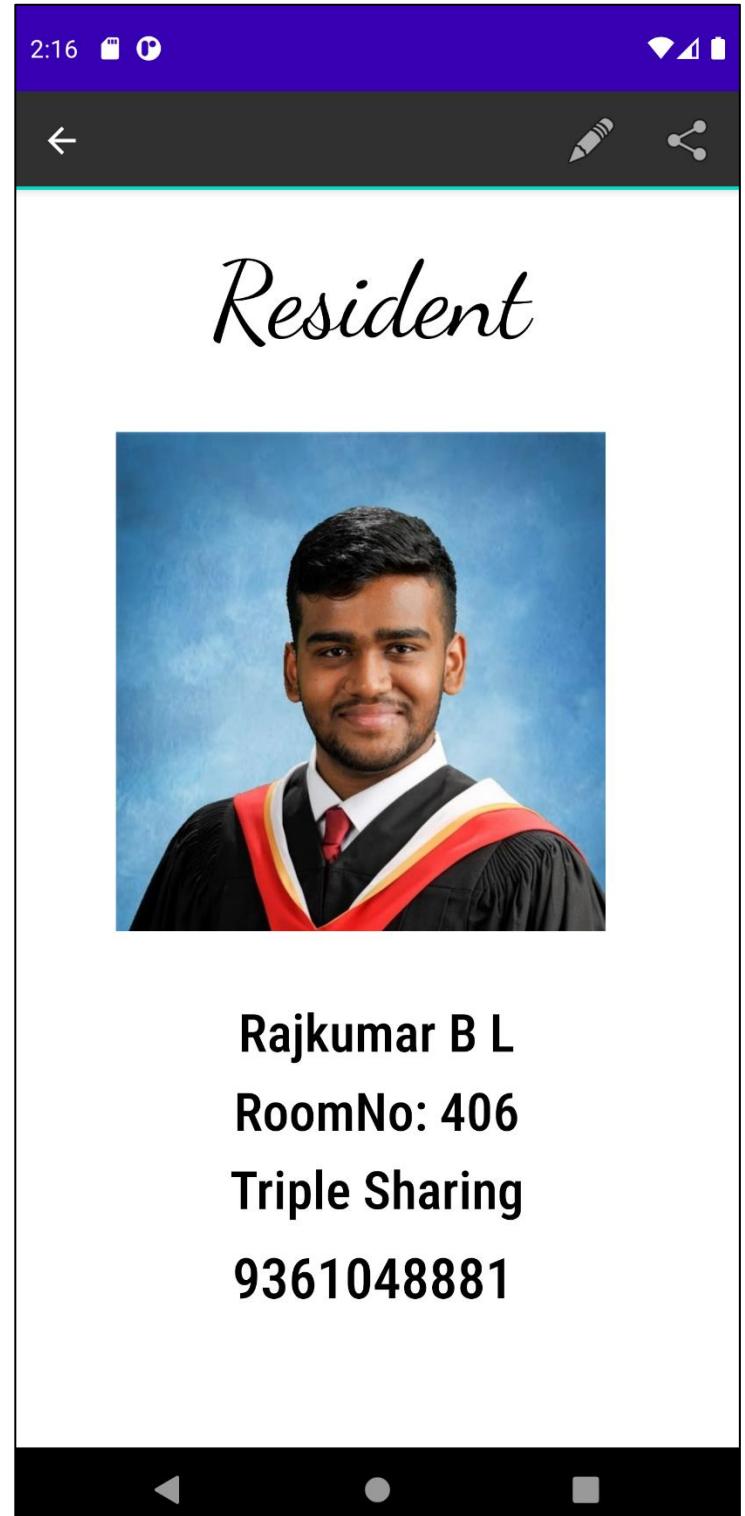
8. Dark Mode



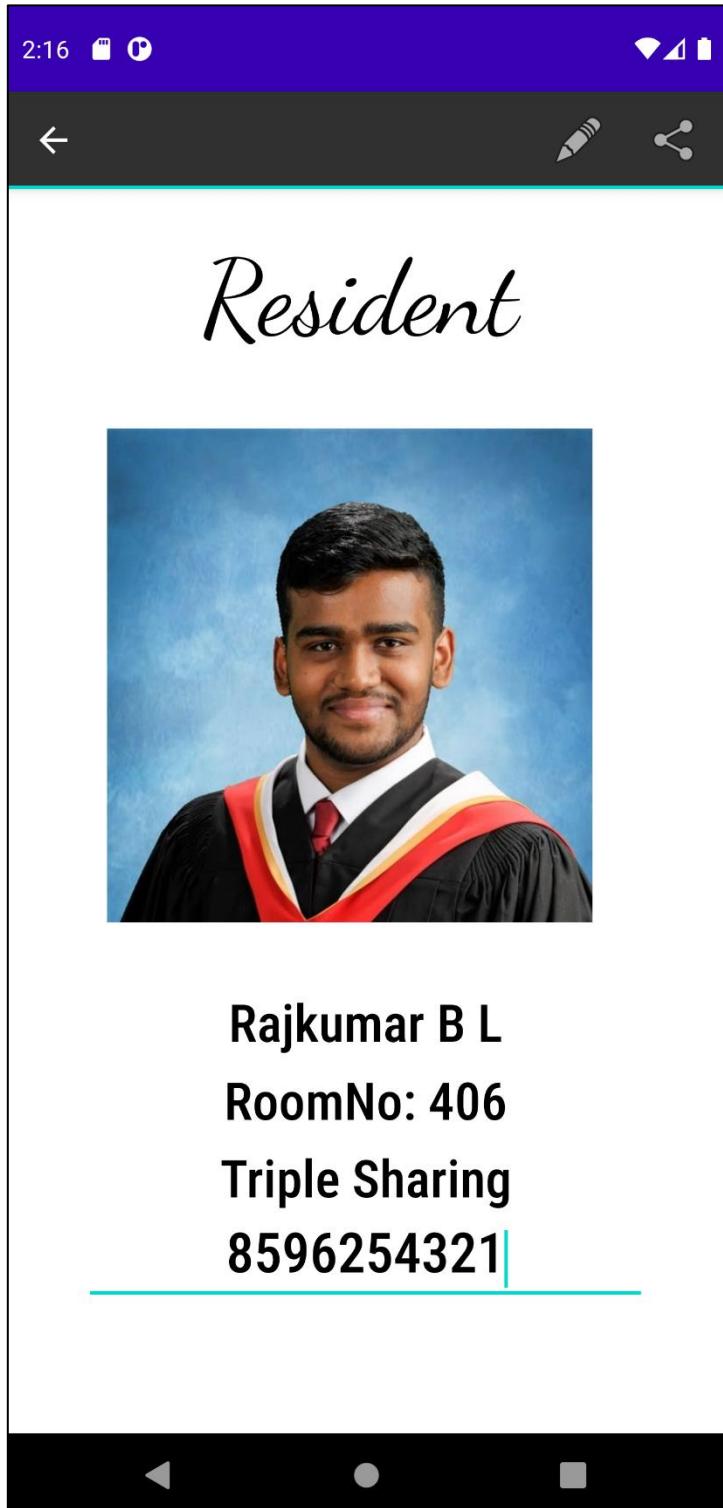
9. Light Mode



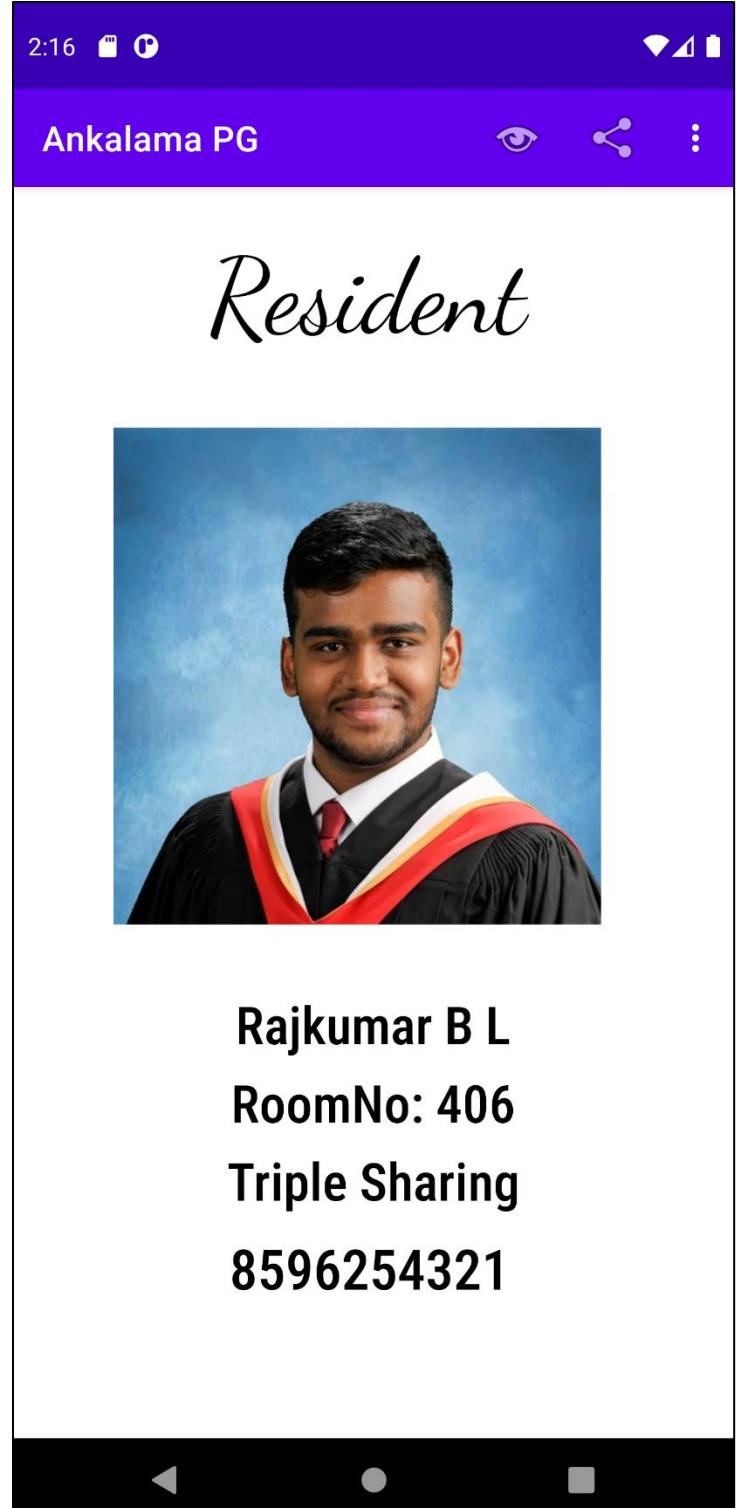
10. Contextual Action Menu (Phone Number Long Press)



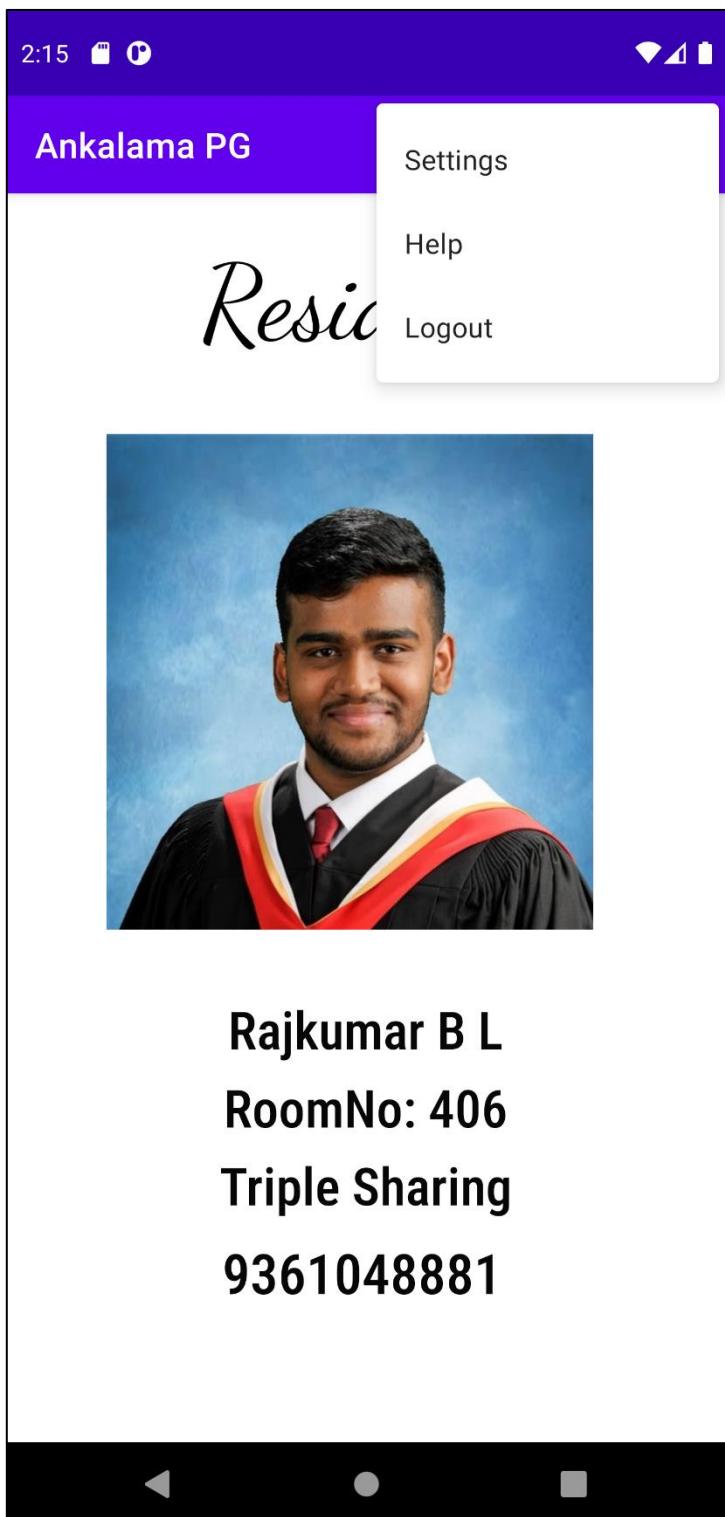
11. Edit option enables phone num editing



12. Edited new phone number



13. Logout – Exit app

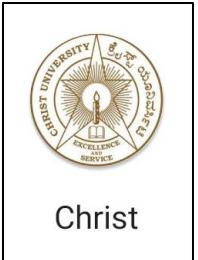


The code used in the Main Activity, XML layout, Splash scree, button ripple effect is attached below for reference.



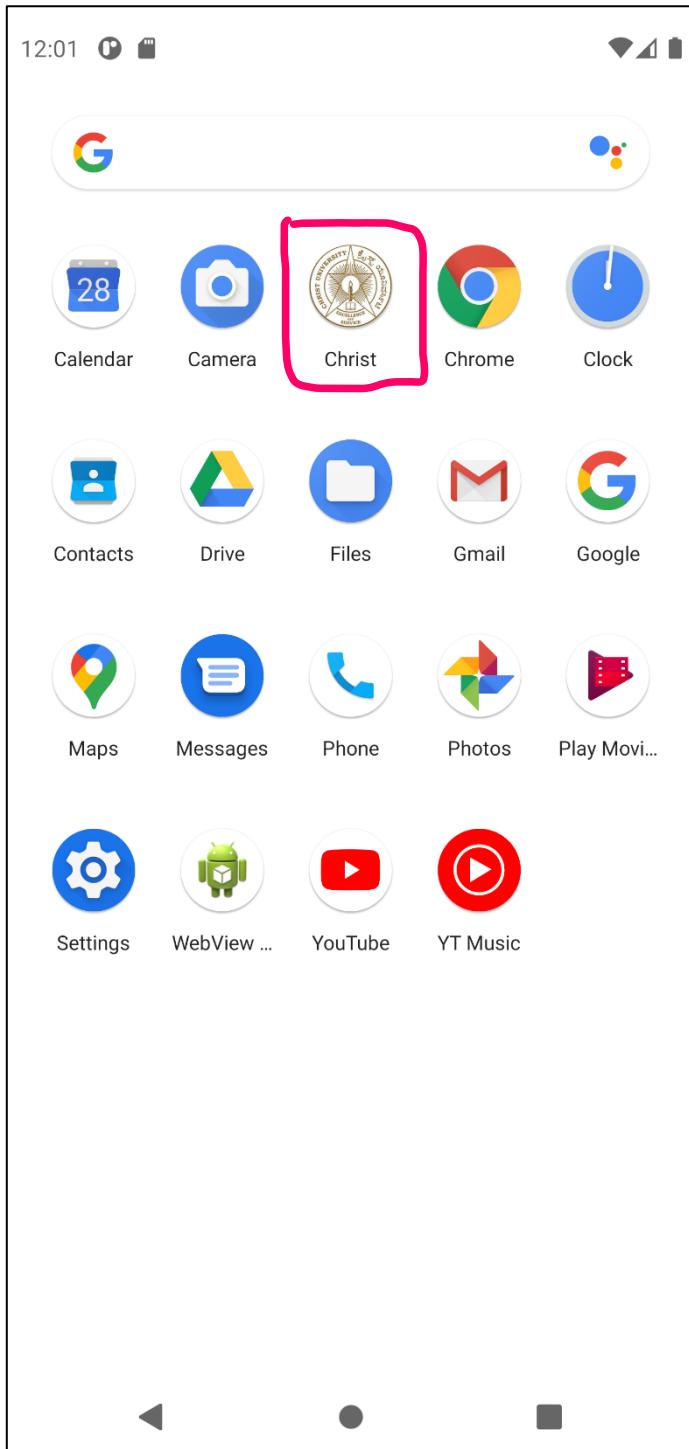
Lab 07 : Navigational Drawer

Name : Rajkumar B L
Reg.No : 2047120
Course : MCS 272 Mobile Application
(Lab 07 – Christ University)

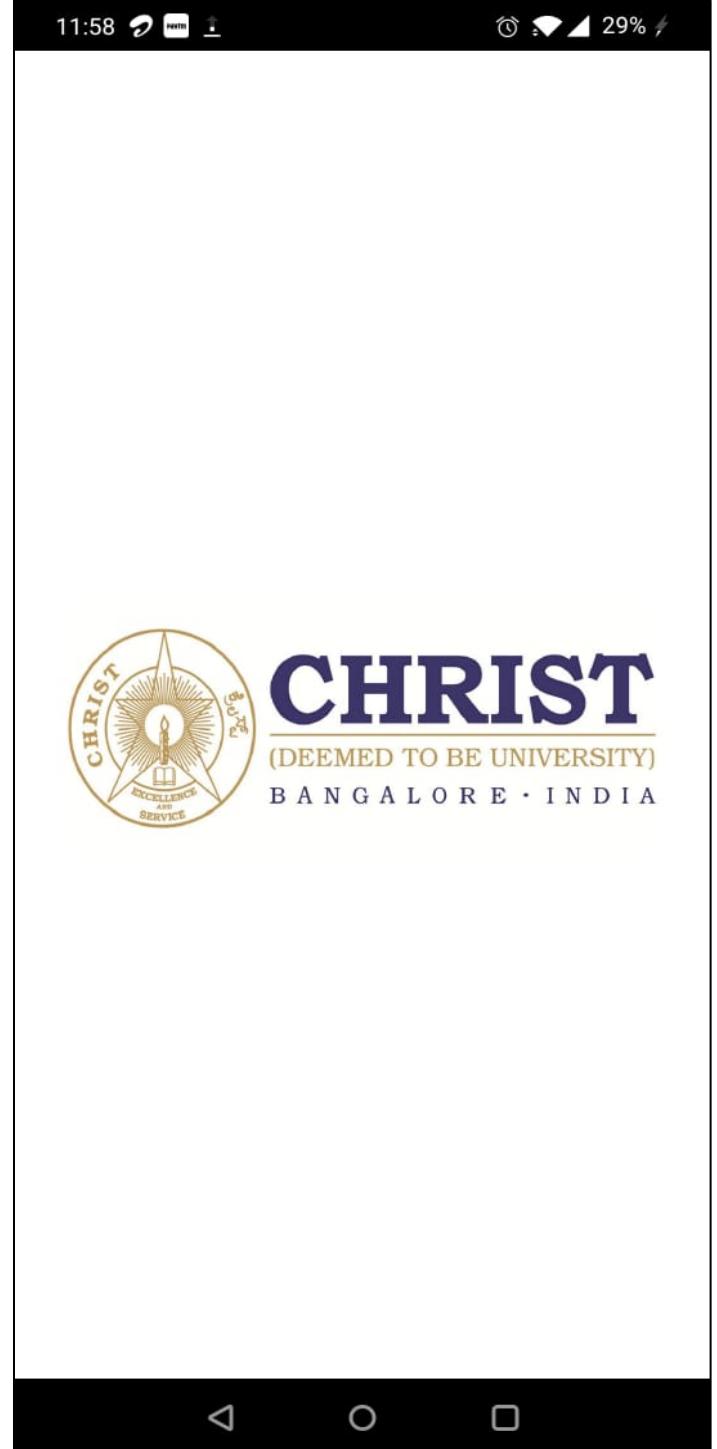


Output:

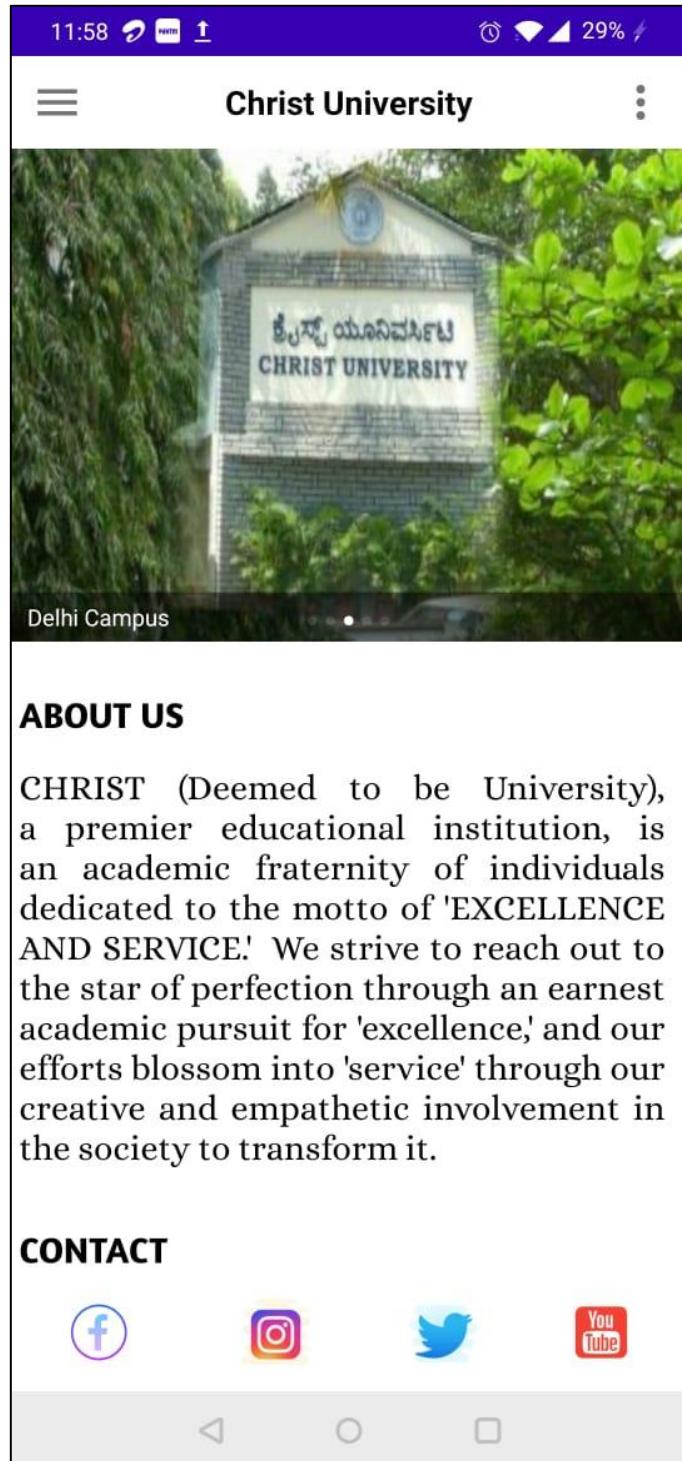
1. App Icon



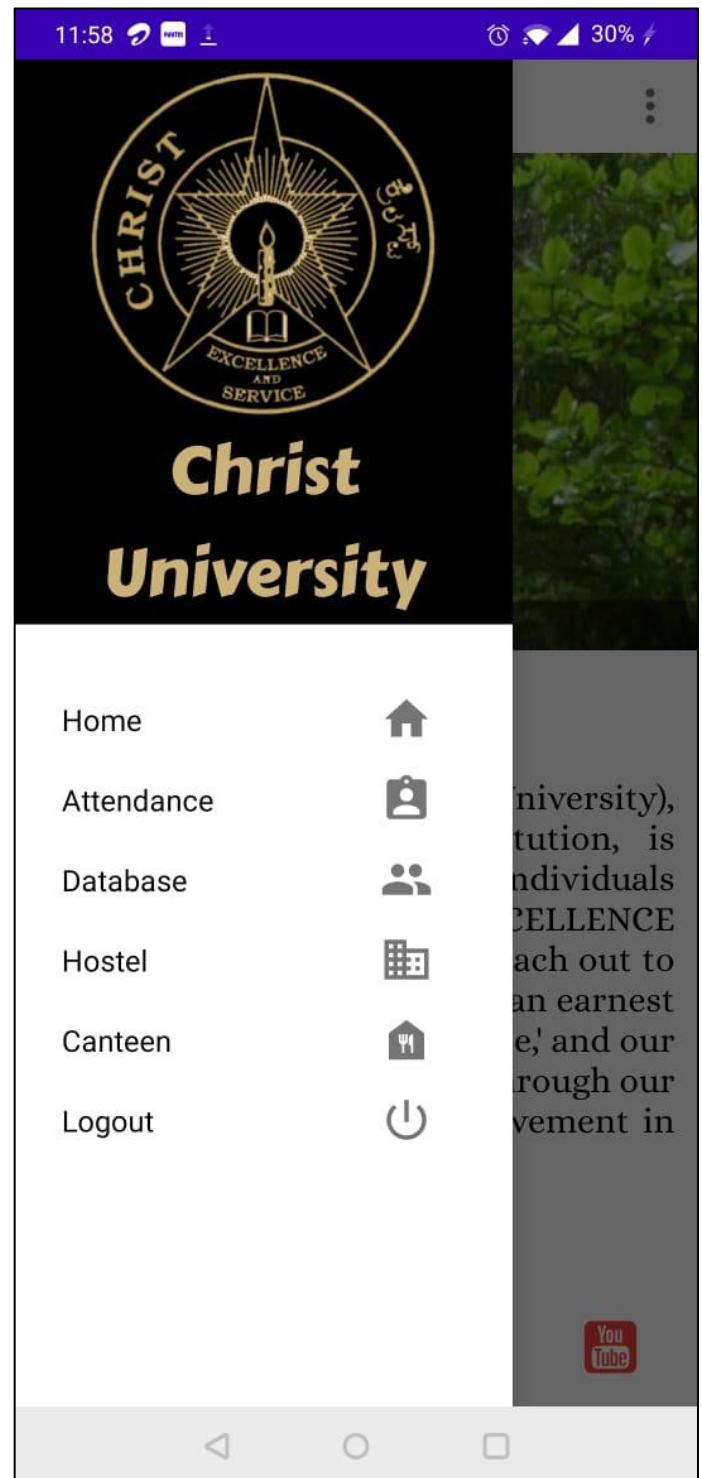
2. Splash Screen



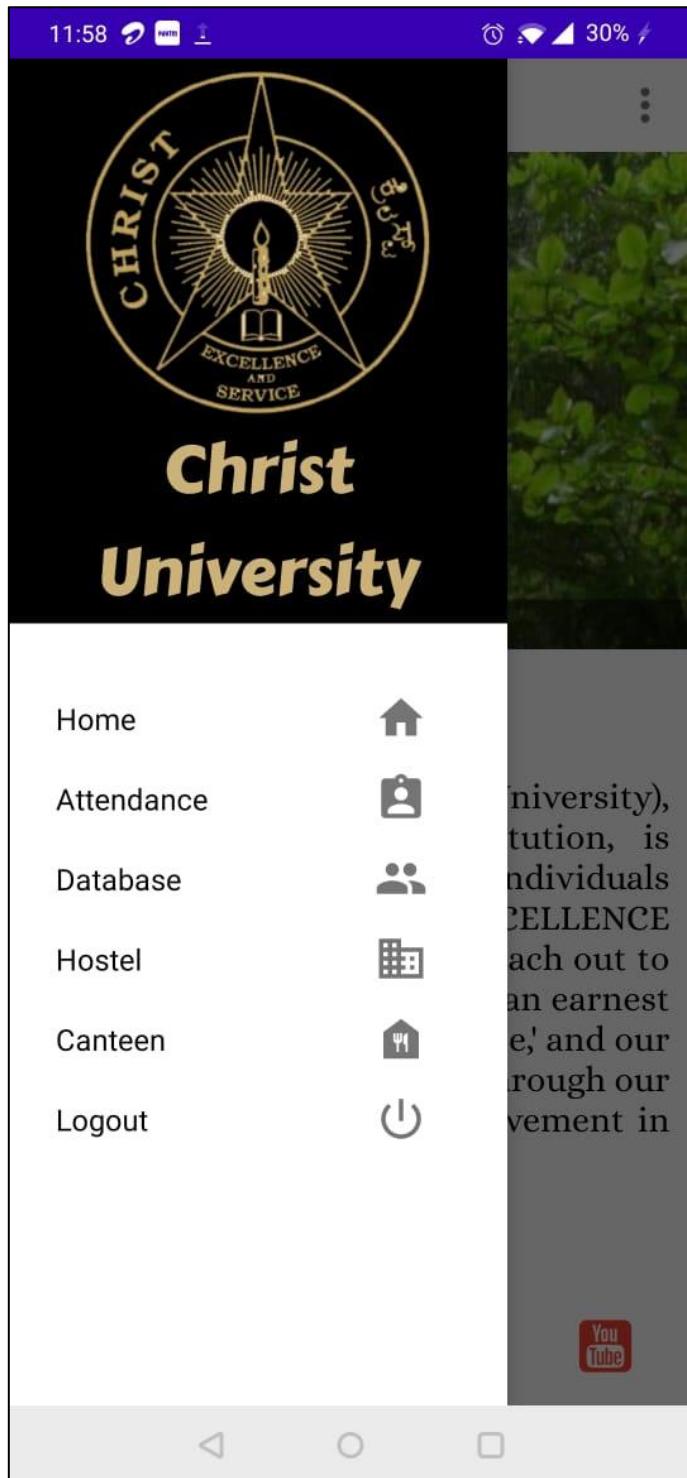
3. Welcome(Home Screen)



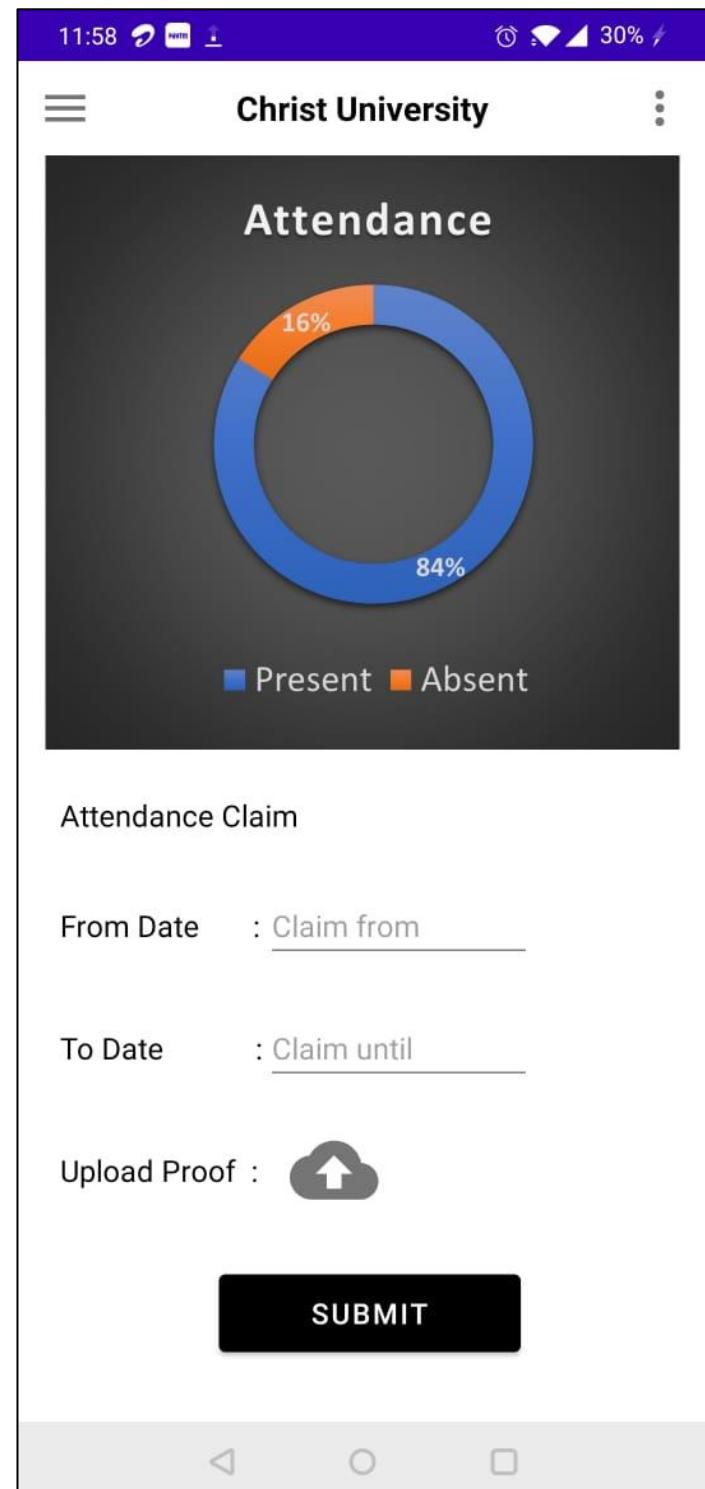
4. Navigational Drawer Menu



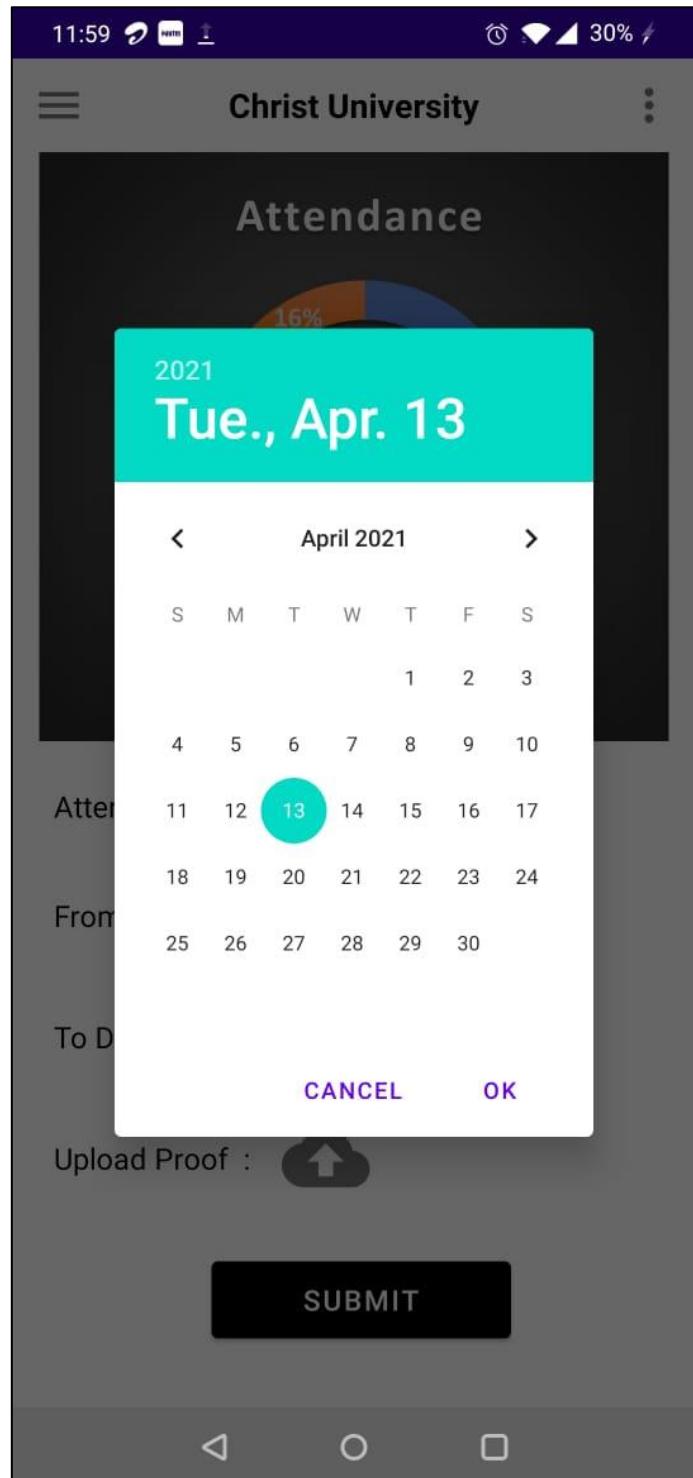
5. Menu



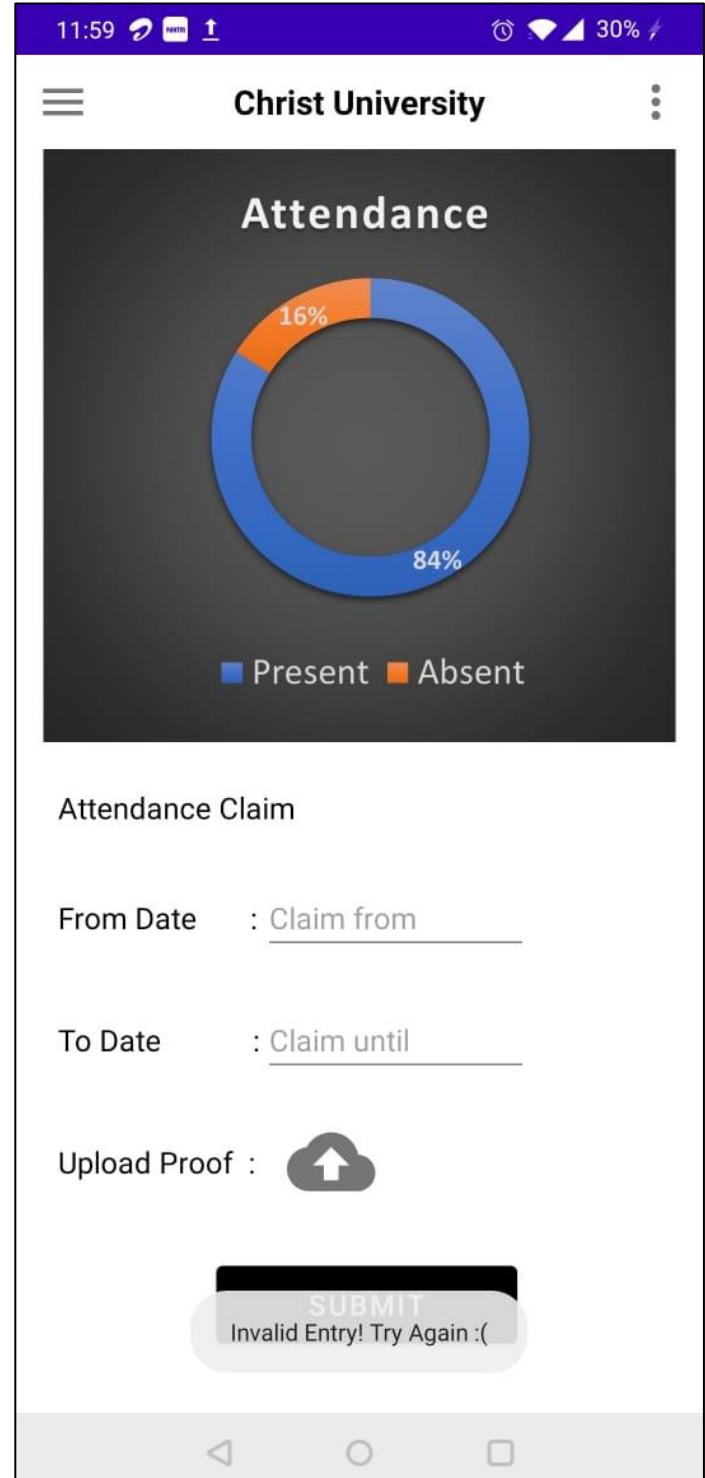
6. Attendance



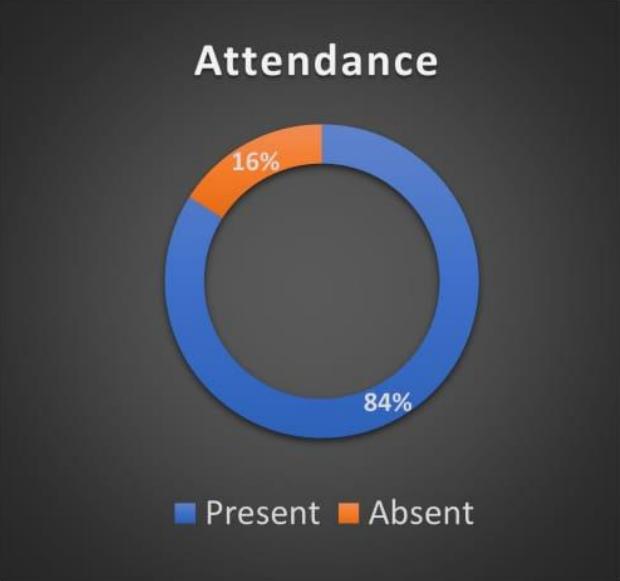
7. From Date - Picker



8. Date Validation

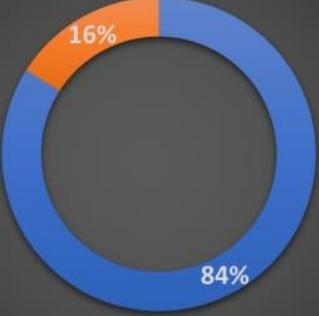


9. Valid → From & To Date



Christ University

Attendance



■ Present ■ Absent

Attendance Claim

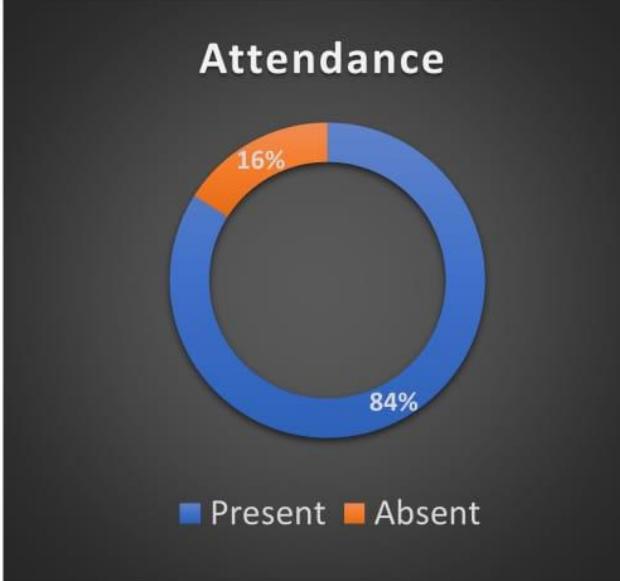
From Date : 8/2/2021

To Date : 12/2/2021

Upload Proof : 

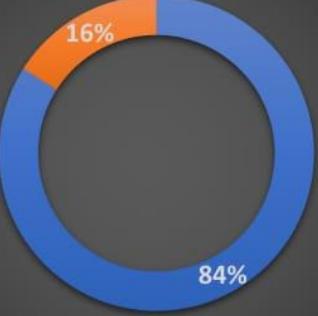
SUBMIT

10. Submit – Under Maintenance



Christ University

Attendance



■ Present ■ Absent

Attendance Claim

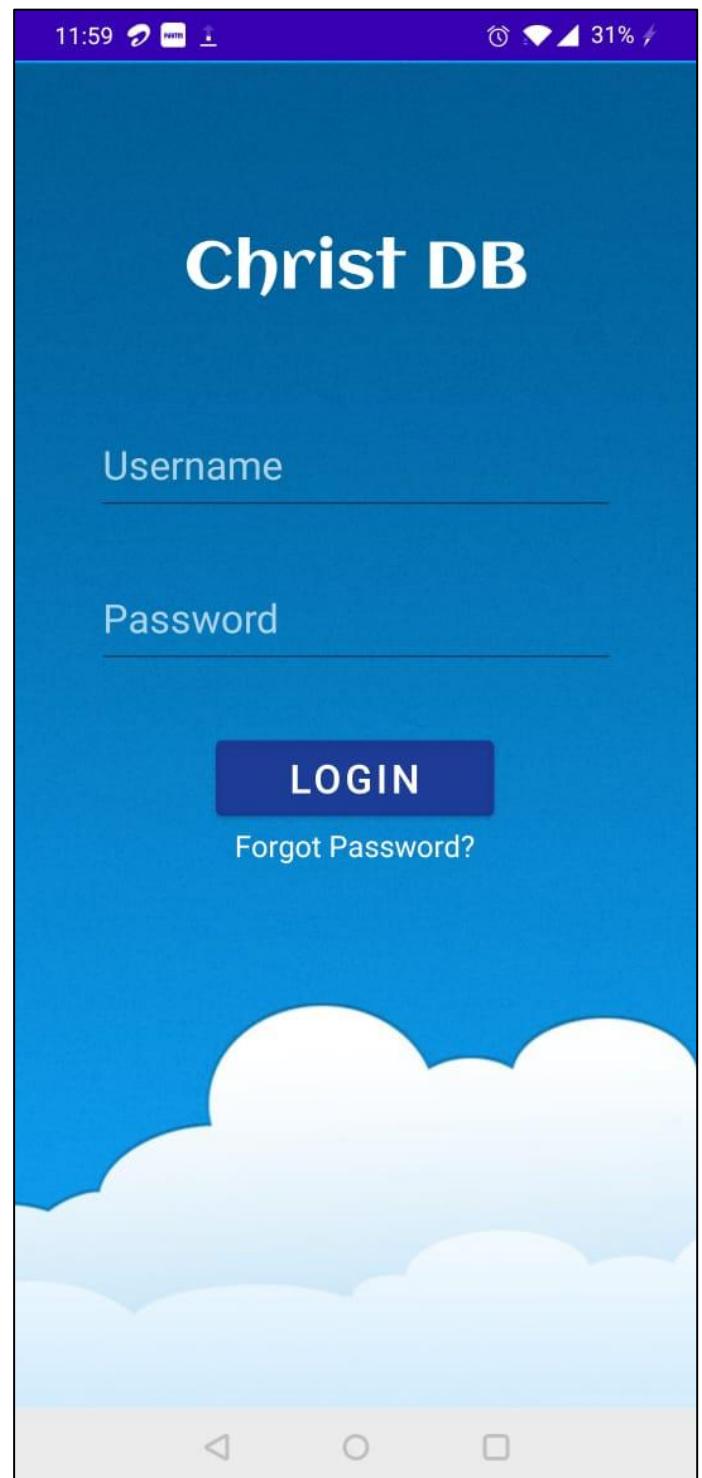
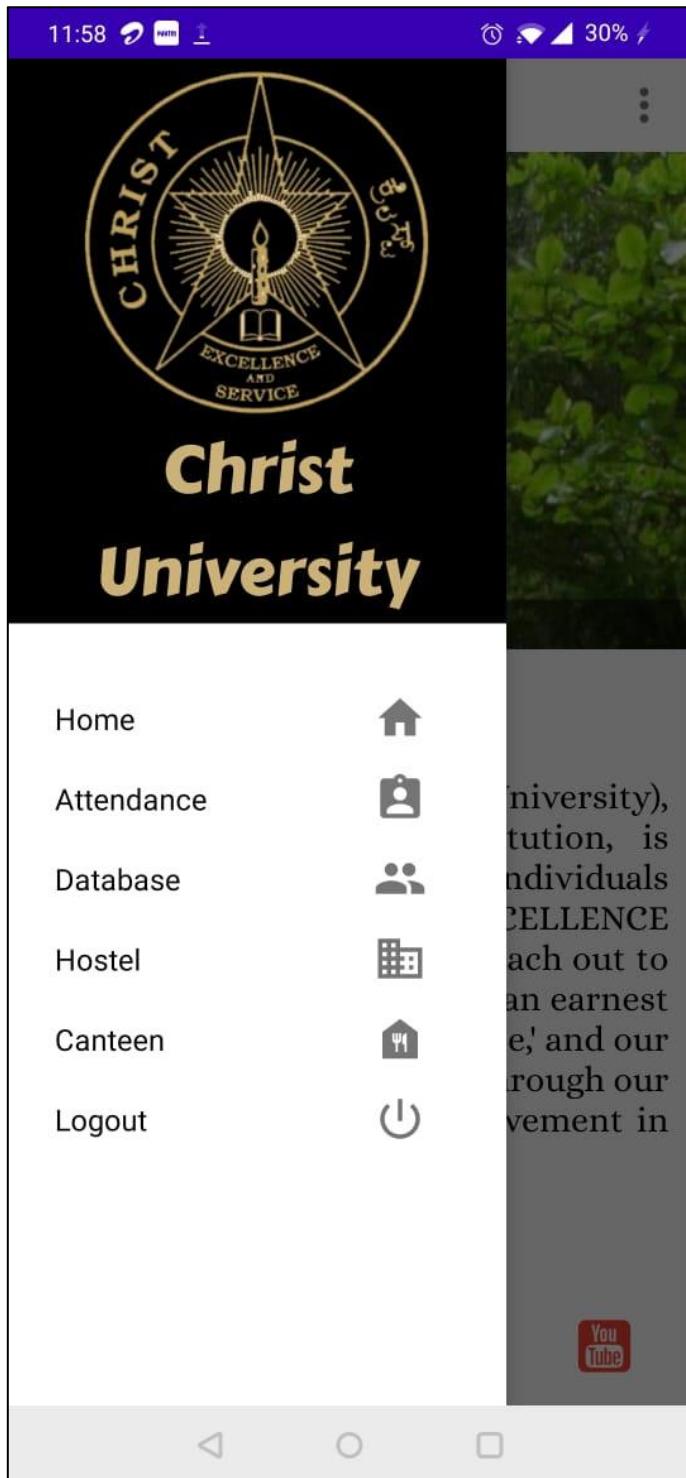
From Date : 8/2/2021

To Date : 12/2/2021

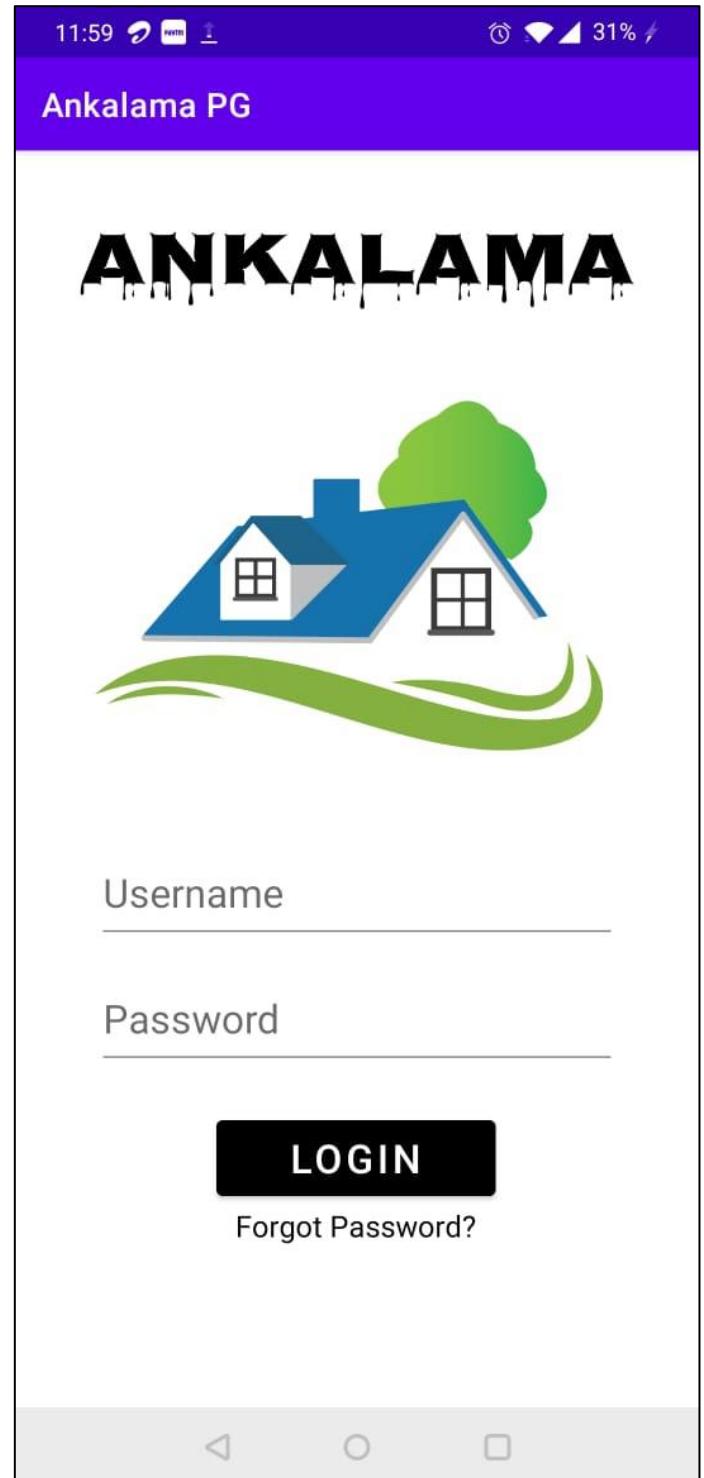
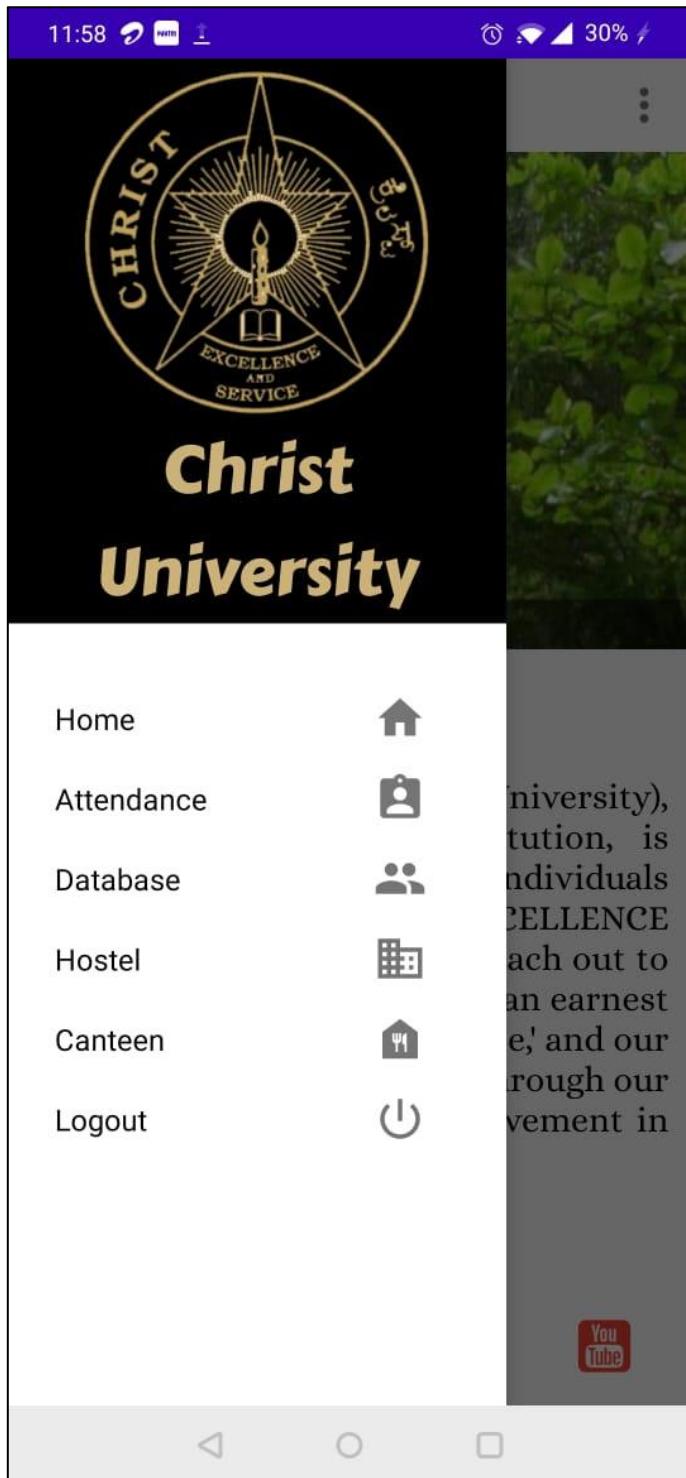
Upload Proof : 

SUBMIT
Activity Under Maintenance

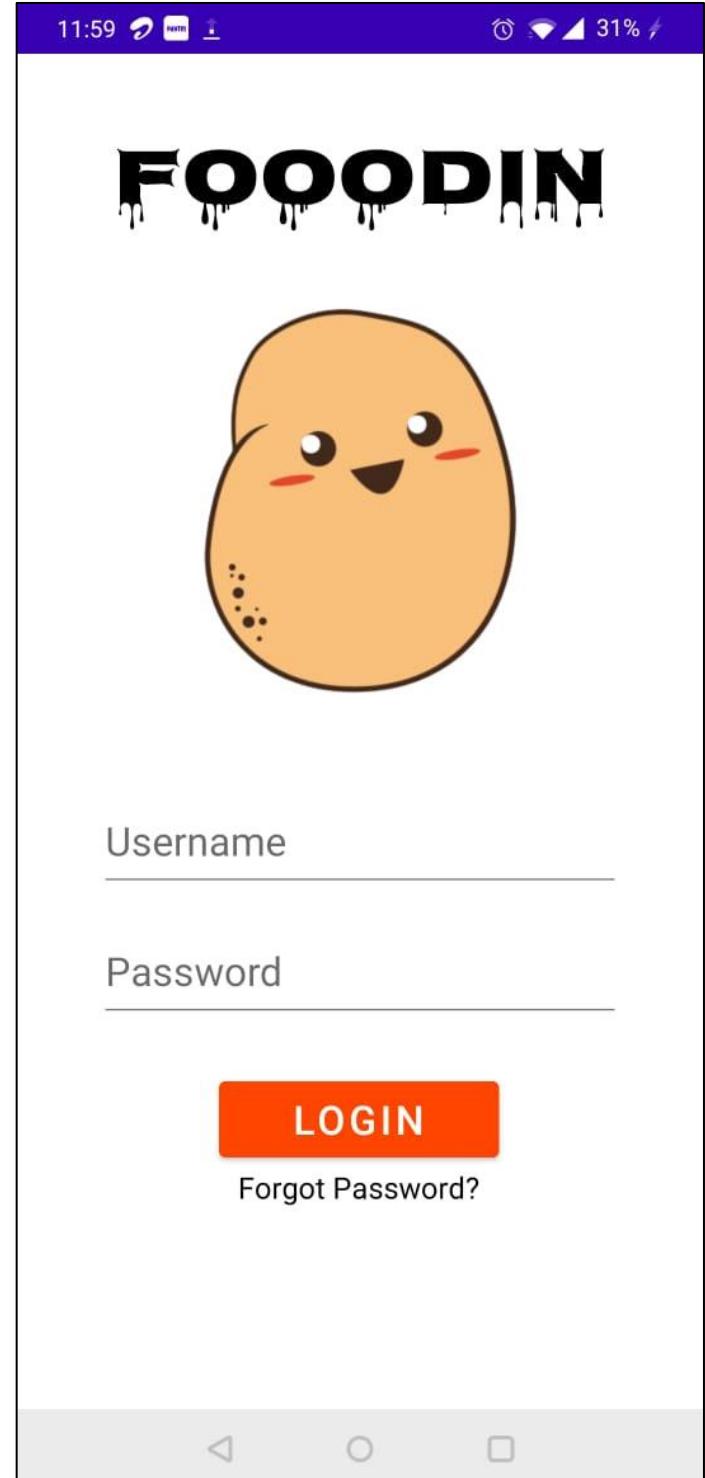
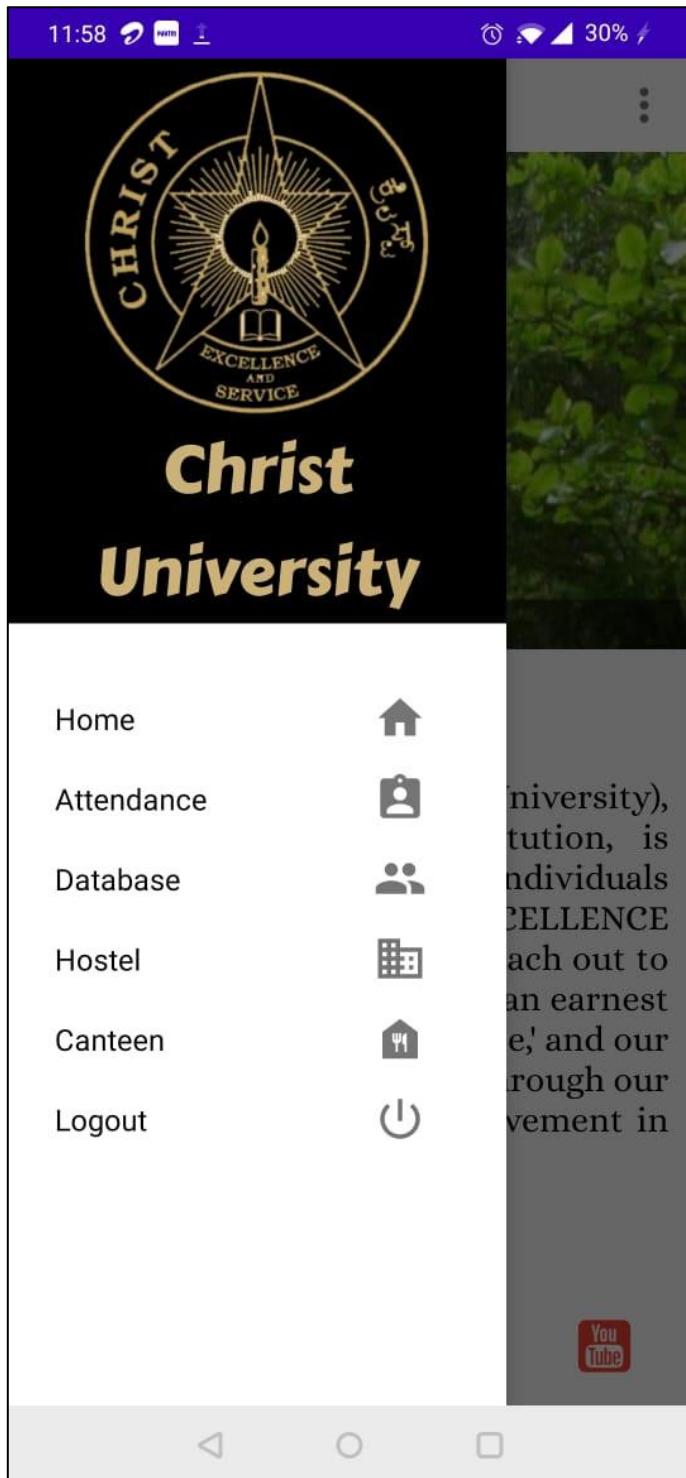
11. Menu → 12. Database



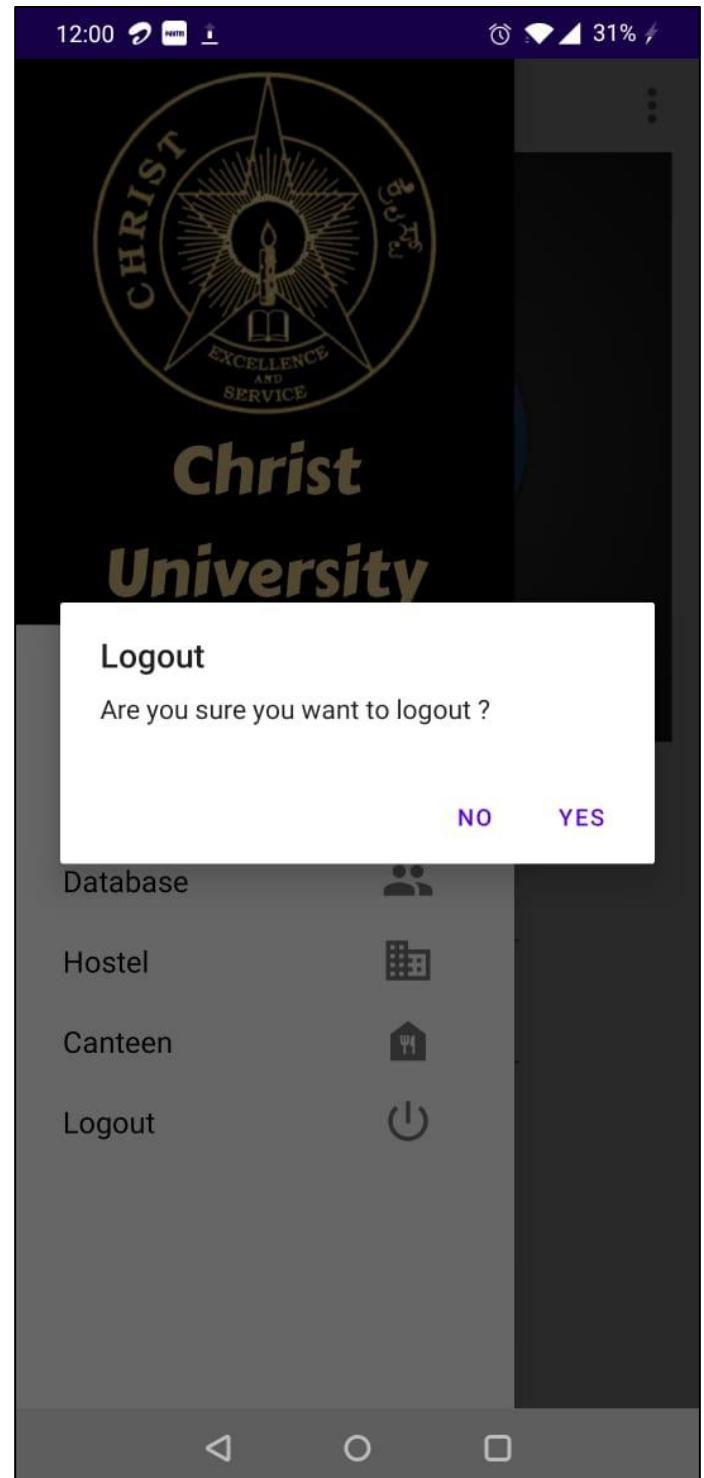
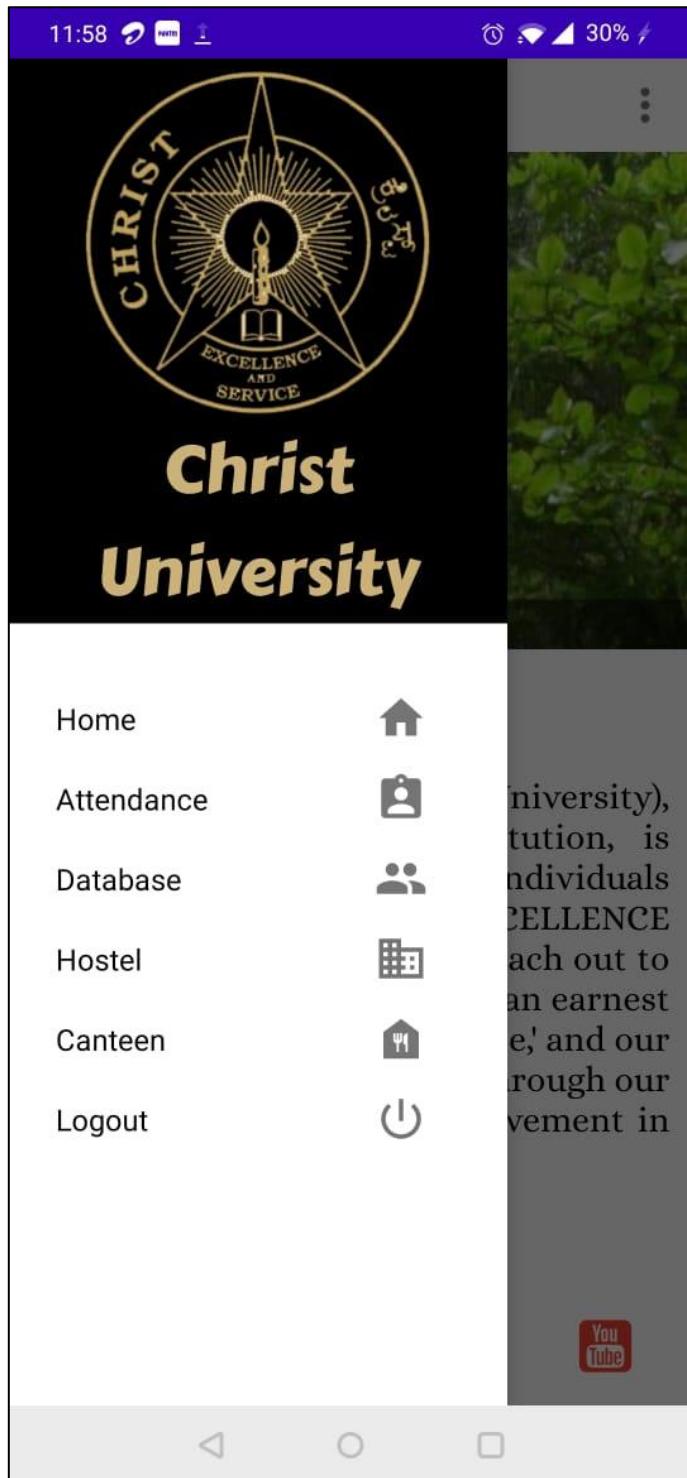
13. Menu → 14. Hostel



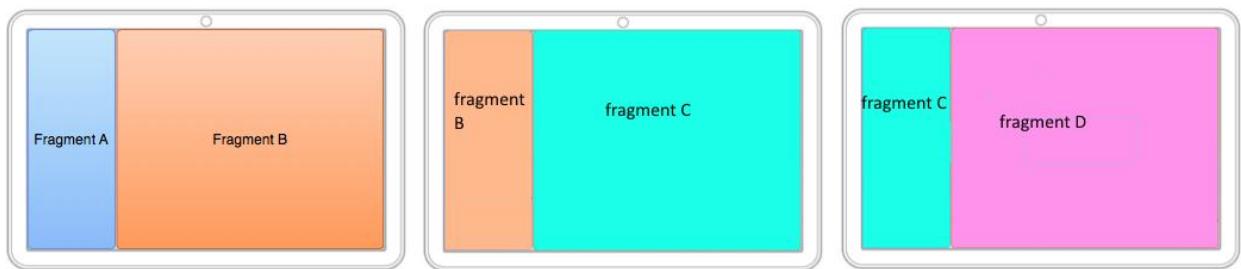
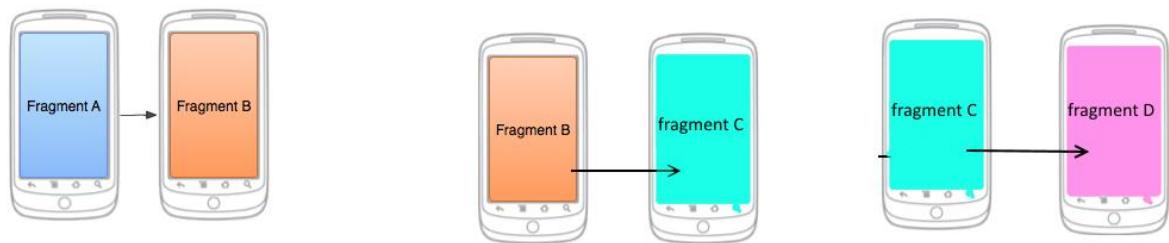
15. Menu → 16. Canteen



17. Menu → 18. Logout



The code used in all the Activities, XML layouts, Splash screen are attached below for reference.



Lab 08 : Fragment

Name : Rajkumar B L
Reg.No : 2047120
Course : MCS 272 Mobile Application
(Lab 08 – Sreeraj Icecream)

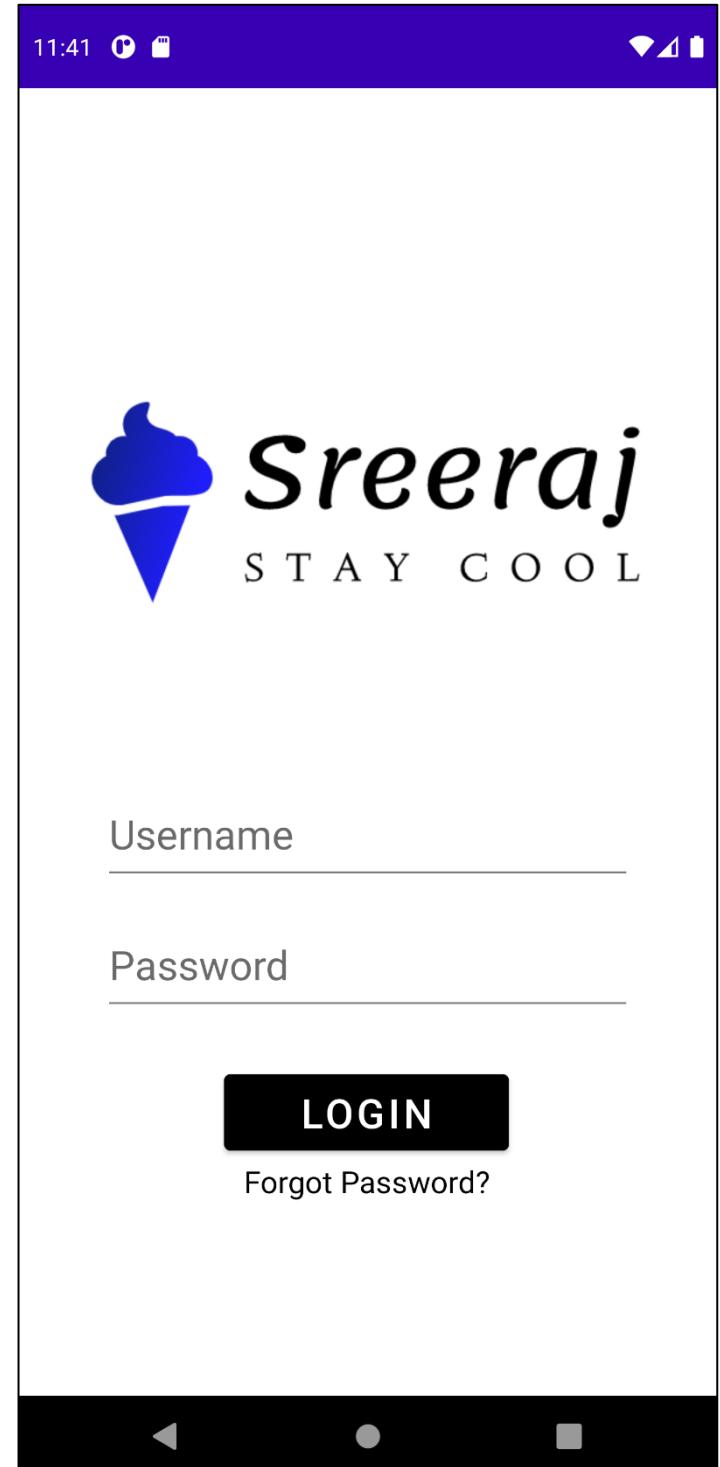


Output:

1. Splash Screen



2. Welcome Screen



3. Login (Raj, Raj1234)



4. Home (Horizontal ice menu)



5. Mango Fragment

11:42

Mango



Cone Cup

Chocolate Caramel

Quantity: 3

ADD TO CART **BACK**



Items added to cart

6. Strawberry Fragment

11:42

Strawberry



Cone Cup

Chocolate Caramel

Quantity: 5

ADD TO CART **BACK**



Items added to cart

7. Pista Fragment

11:42

Pistachio

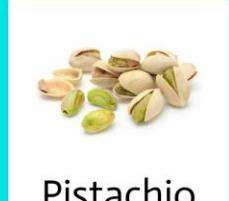


Cone Cup

Chocolate Caramel

Quantity: 1 ▾

ADD TO CART **BACK**

Strawberry Pistachio Bluebe

achio

◀ ⏴ □

8. Blueberry Fragment

11:42

BlueBerry



Cone Cup

Chocolate Caramel

Quantity: 1 ▾

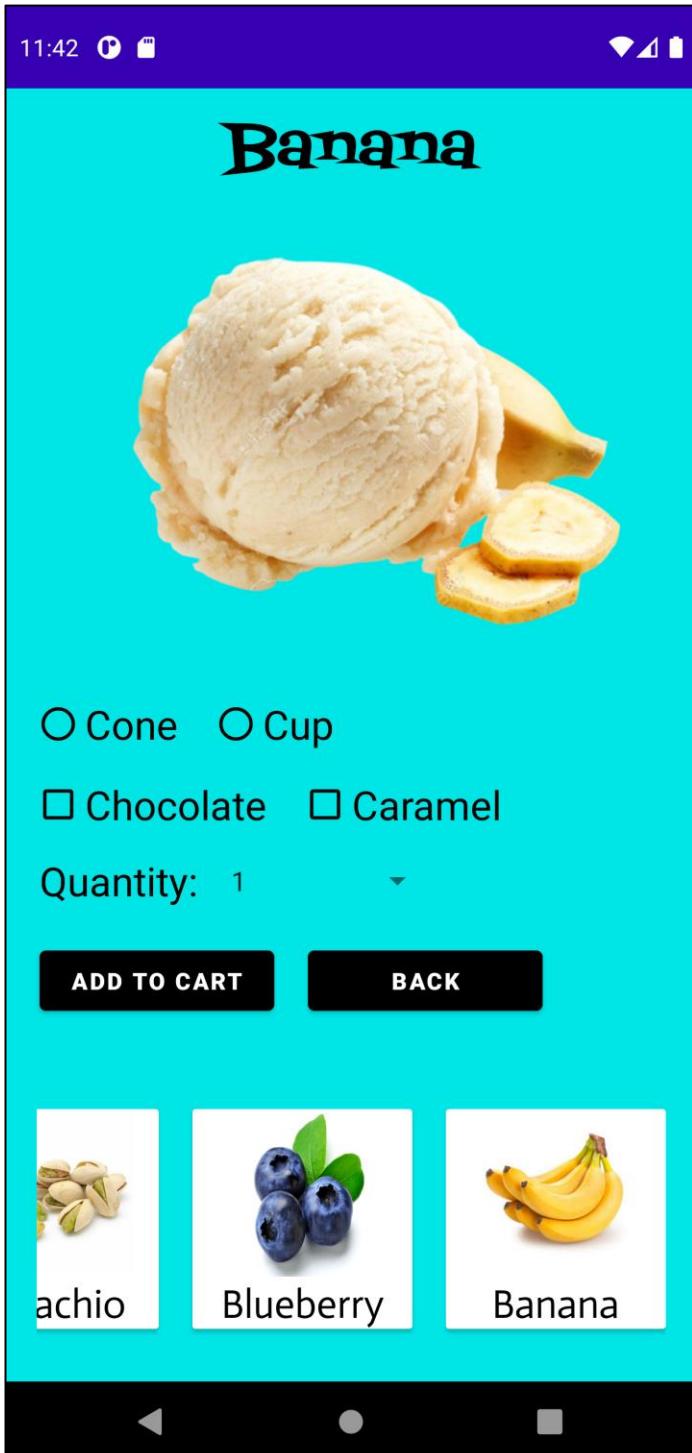
ADD TO CART **BACK**

achio Blueberry Banana

◀ ⏴ □

9. Banana Fragment



The code used in all the Activities, XML layouts, Splash screen are attached below for reference.



Lab 09 : Music Player

Name : Rajkumar B L

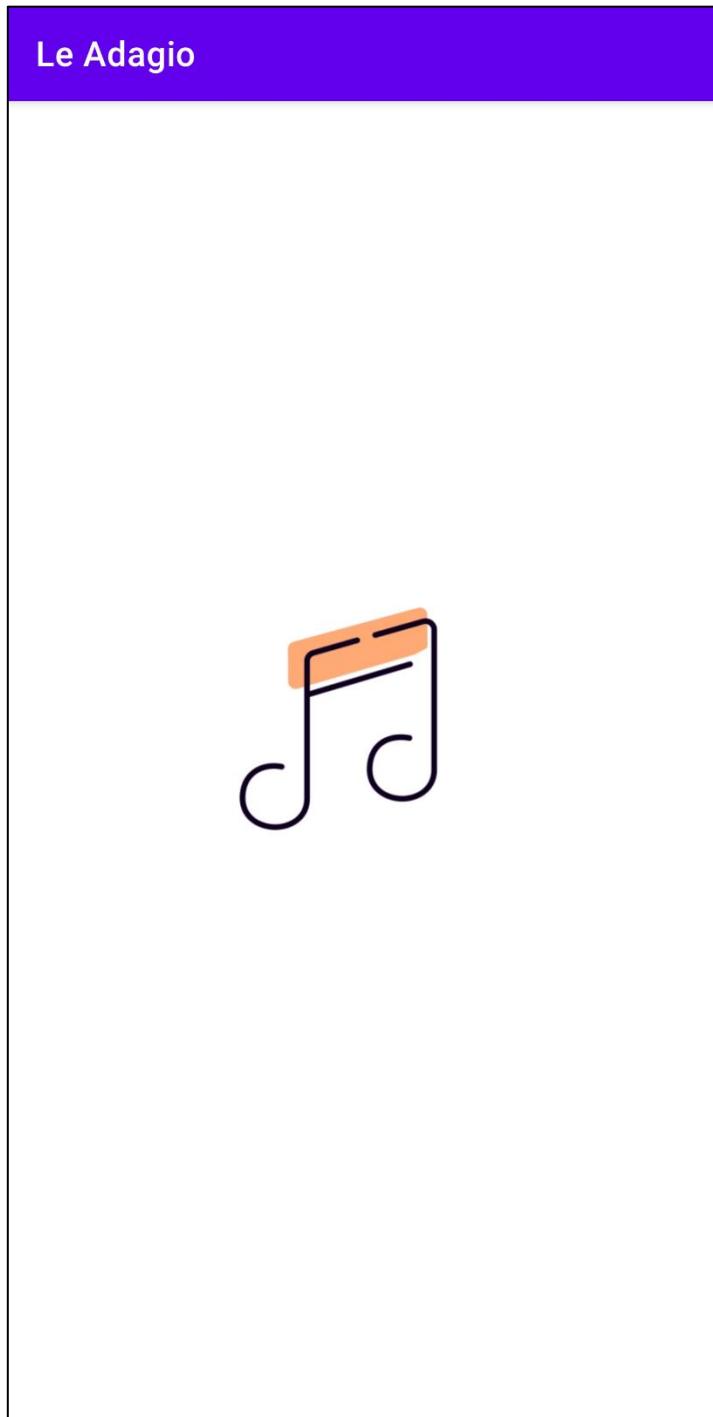
Reg.No : 2047120

Course : MCS 272 Mobile Application

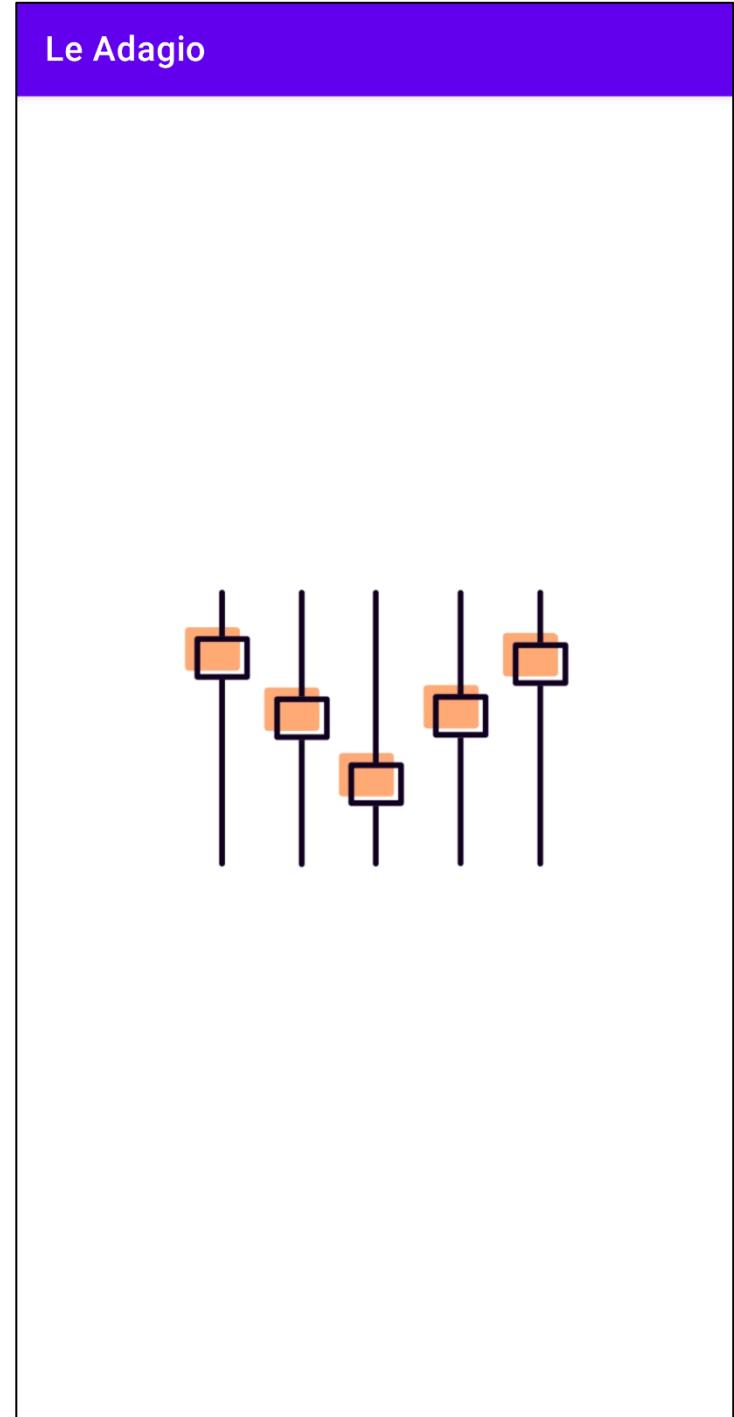
(Lab 09 – Le Adagio)

Output:

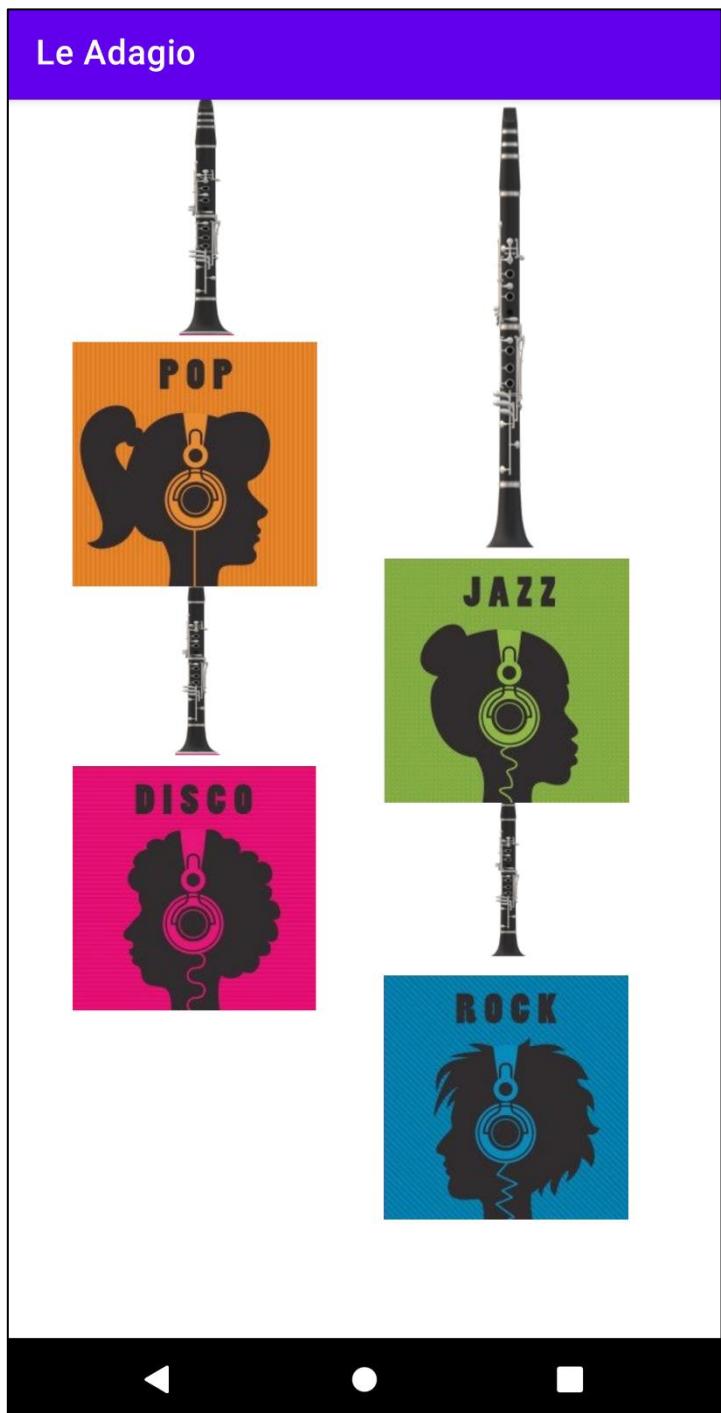
1. Splash Screen



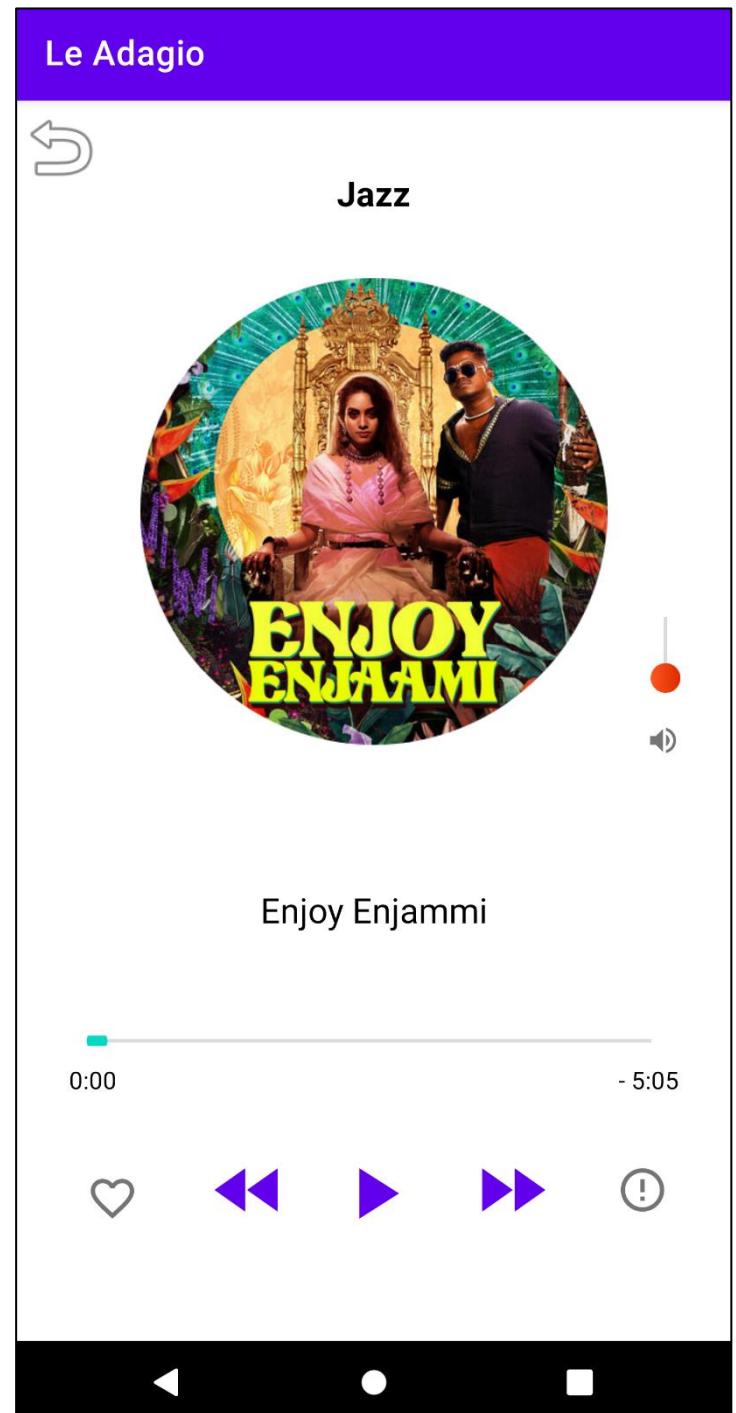
2. Splash Screen 2



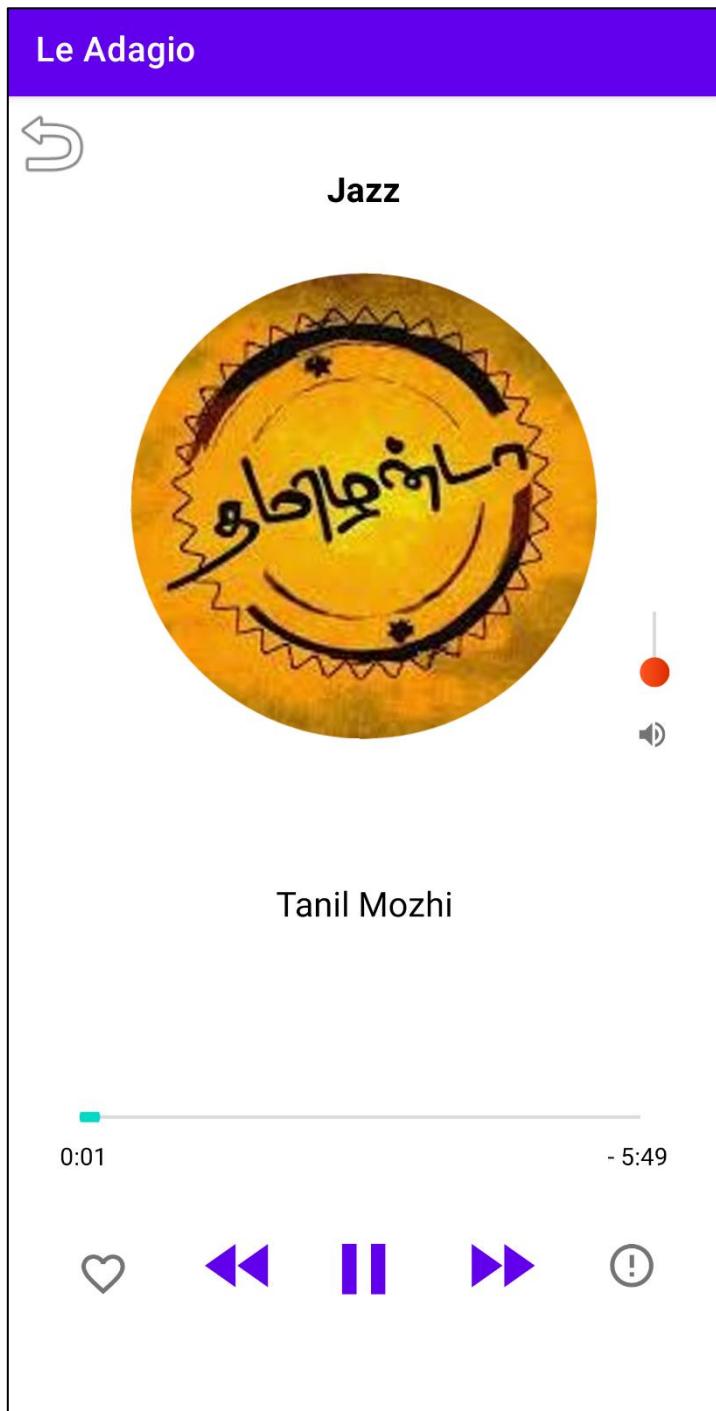
3. Menu



4. Jazz – Song 1



5.Jazz – Song 2



The code used in all the Activities, XML layouts, Splash screen are attached below for reference.



Android Working With

RecyclerView

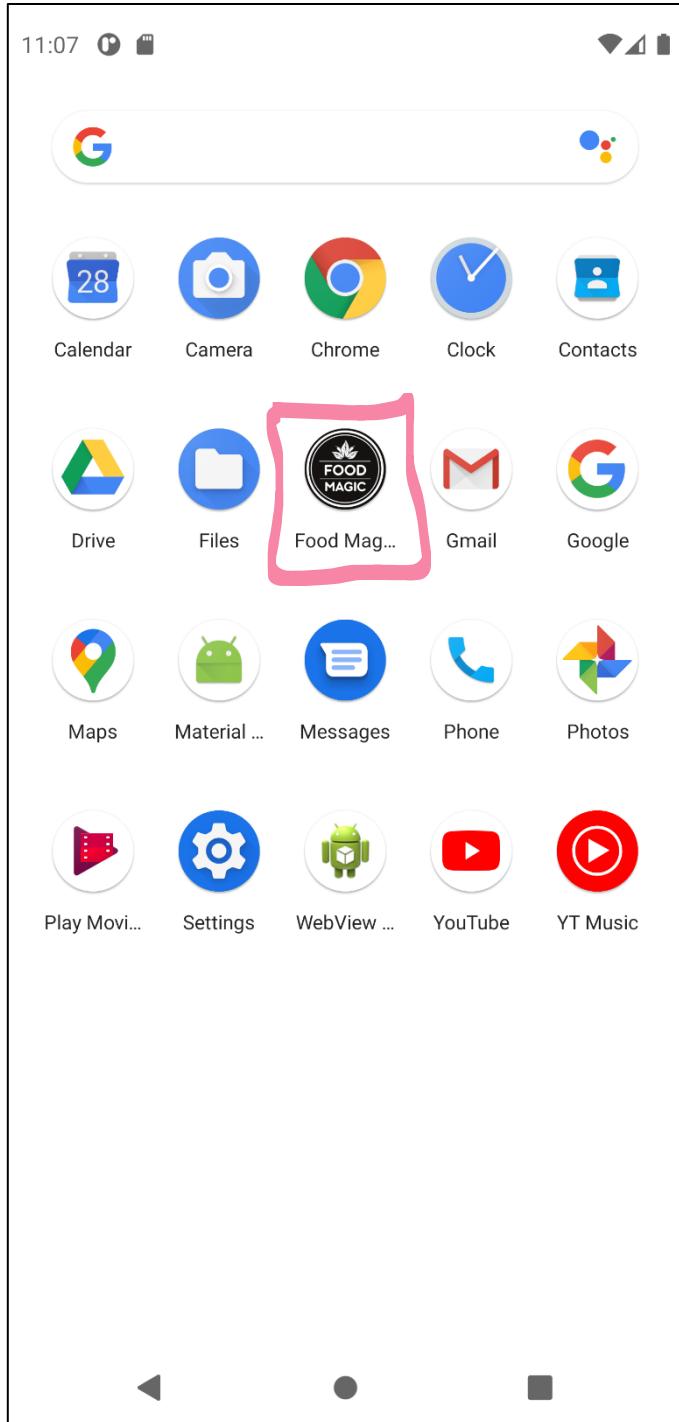
Lab 10 : Recycler View

Name : Rajkumar B L
Reg.No : 2047120
Course : MCS 272 Mobile Application
(Lab 10 - Food Magic)

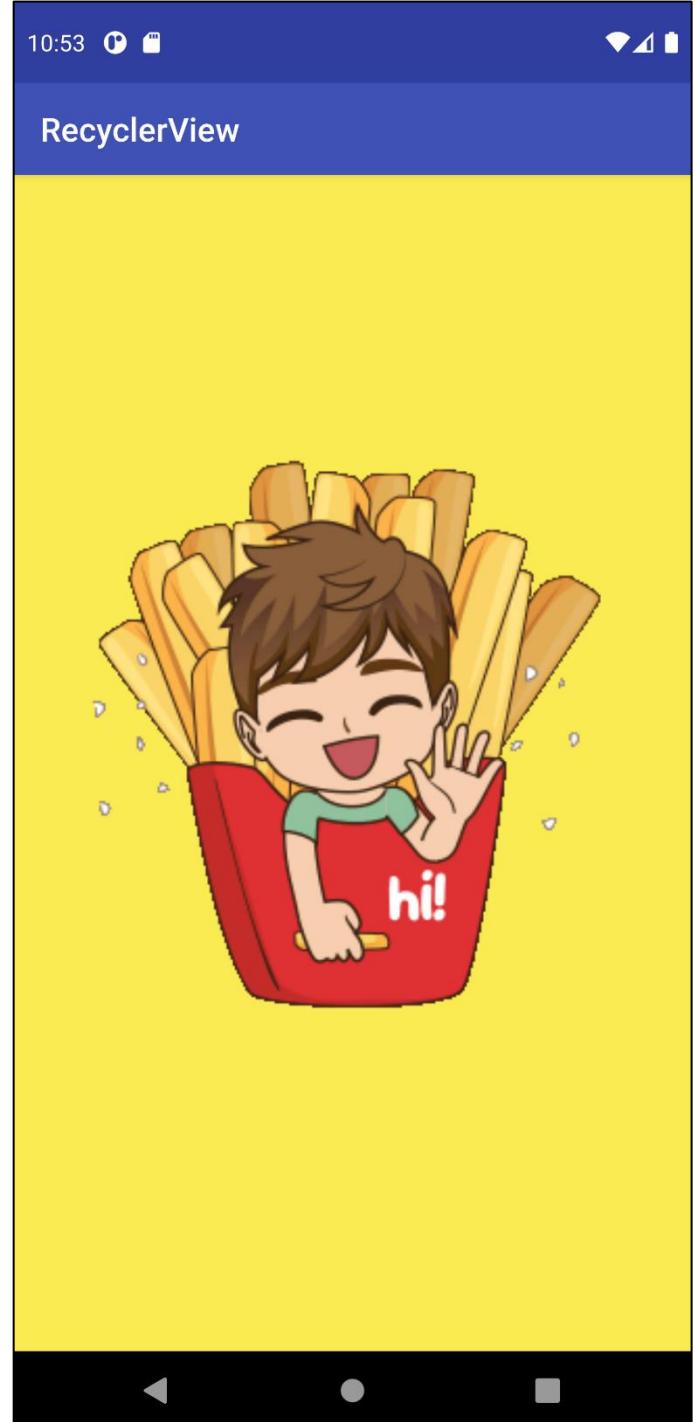


Output:

1. App Icon

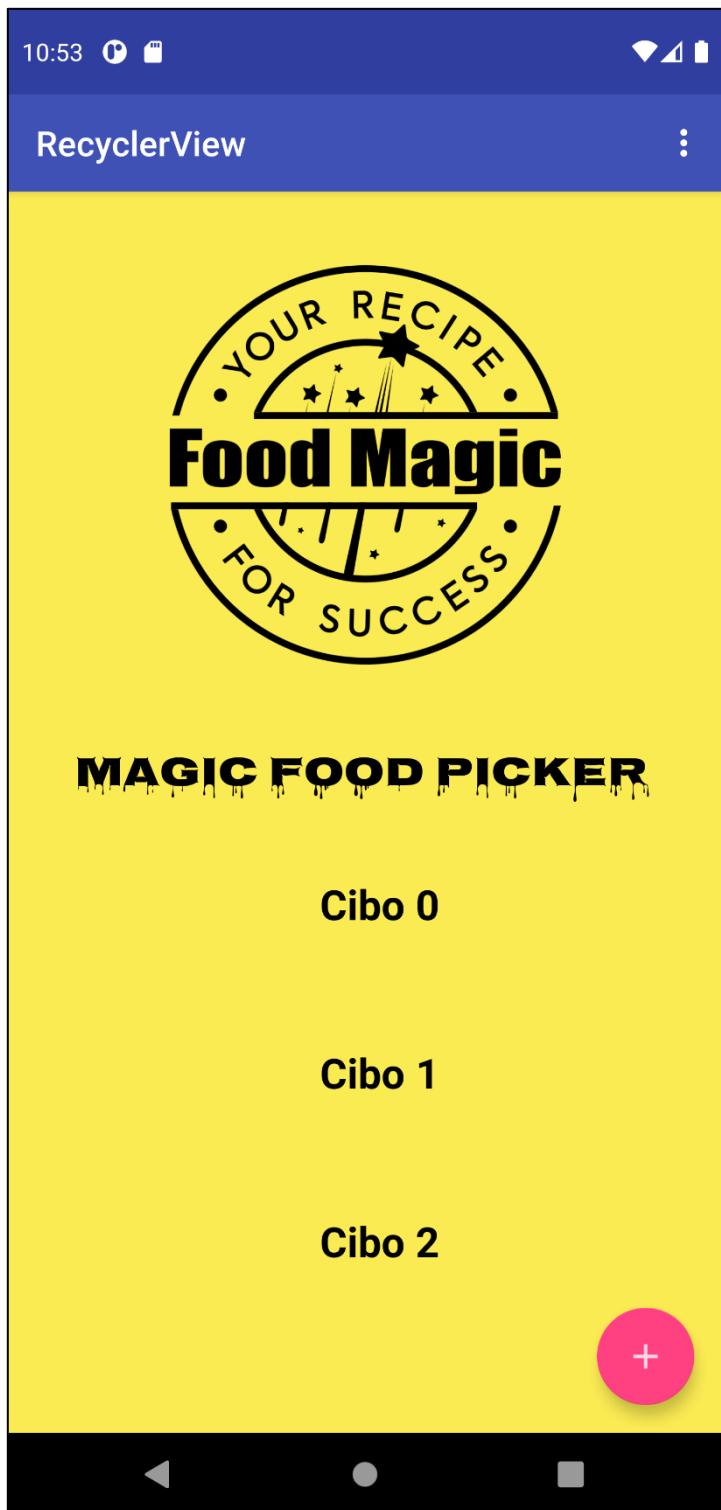


2. Splash Screen

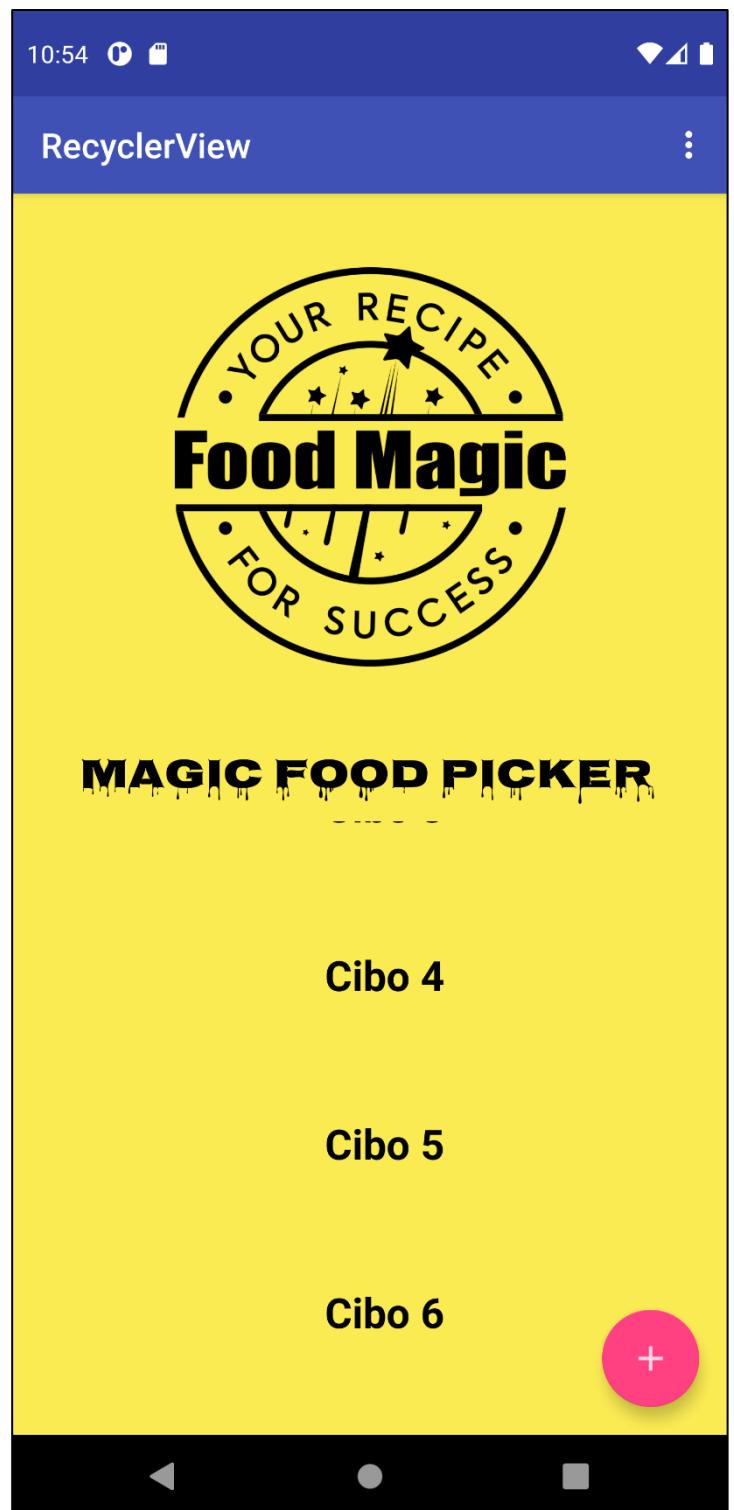


Note: Cibo means food in Italy. Clicking on the plus sign in the bottom adds a new cibo to the magic food picker list.

3. Welcome Screen

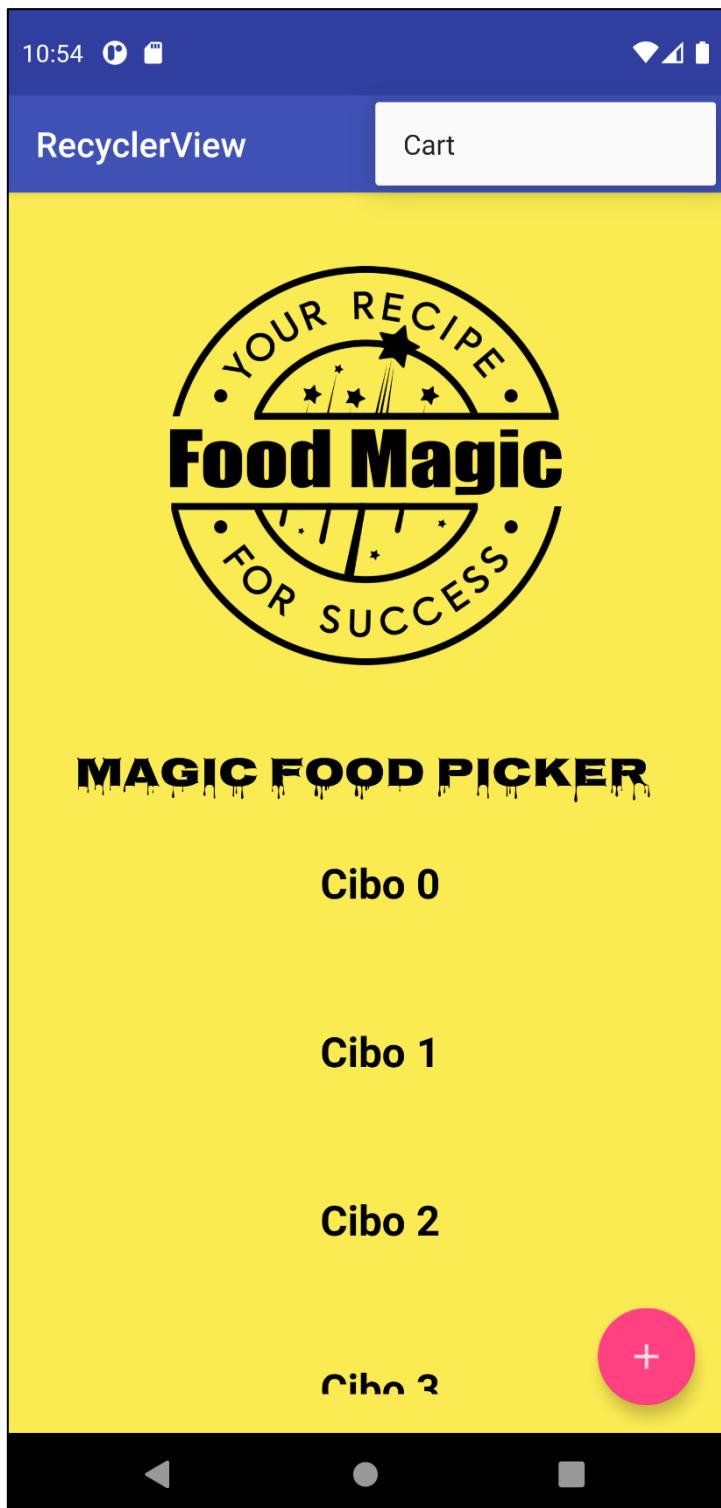


4. Adding items to the list

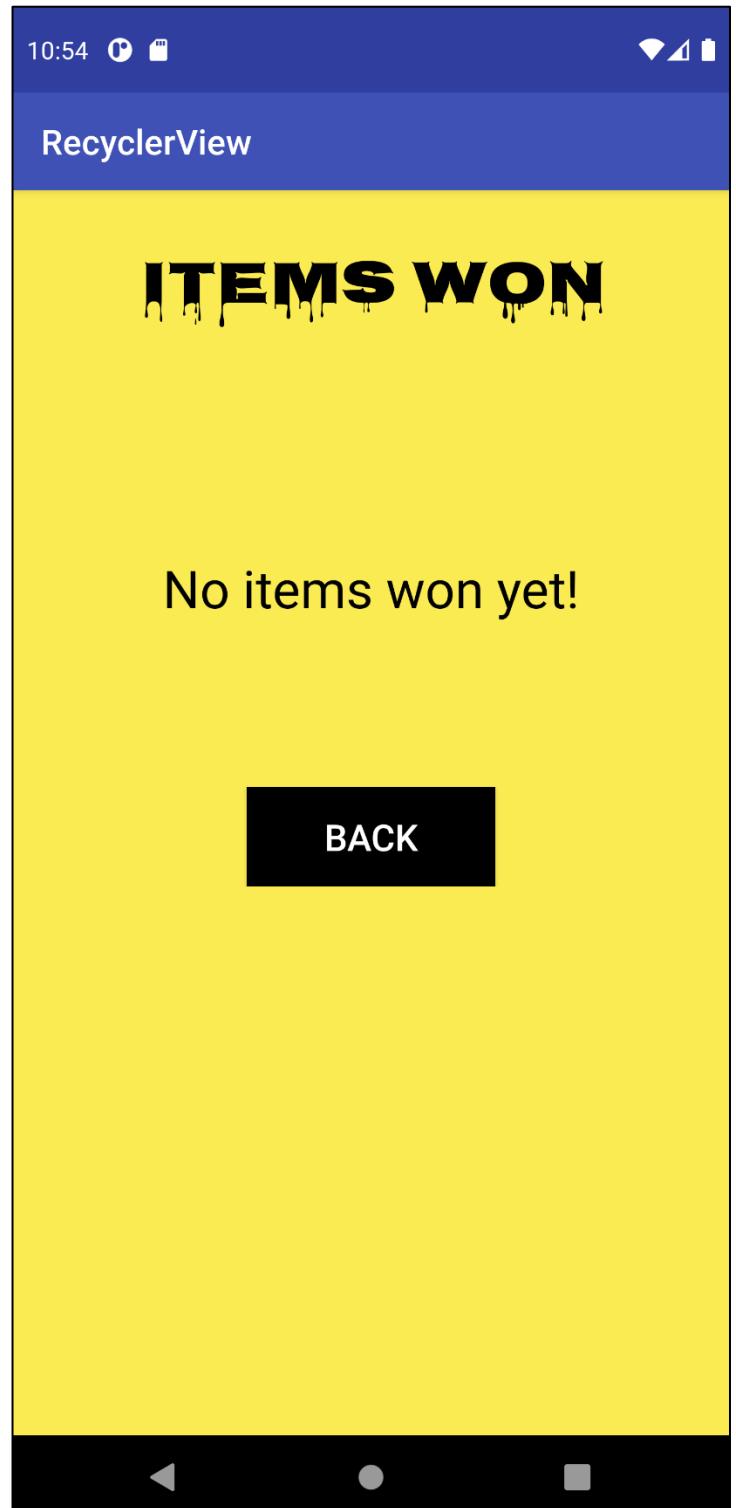


Note: Clicking on the cart option in the menu takes to the cart activity. Cart activity displays all the items won by clicking on items from the magic food picker list.

5. Option menu - Cart



6. Cart Activity

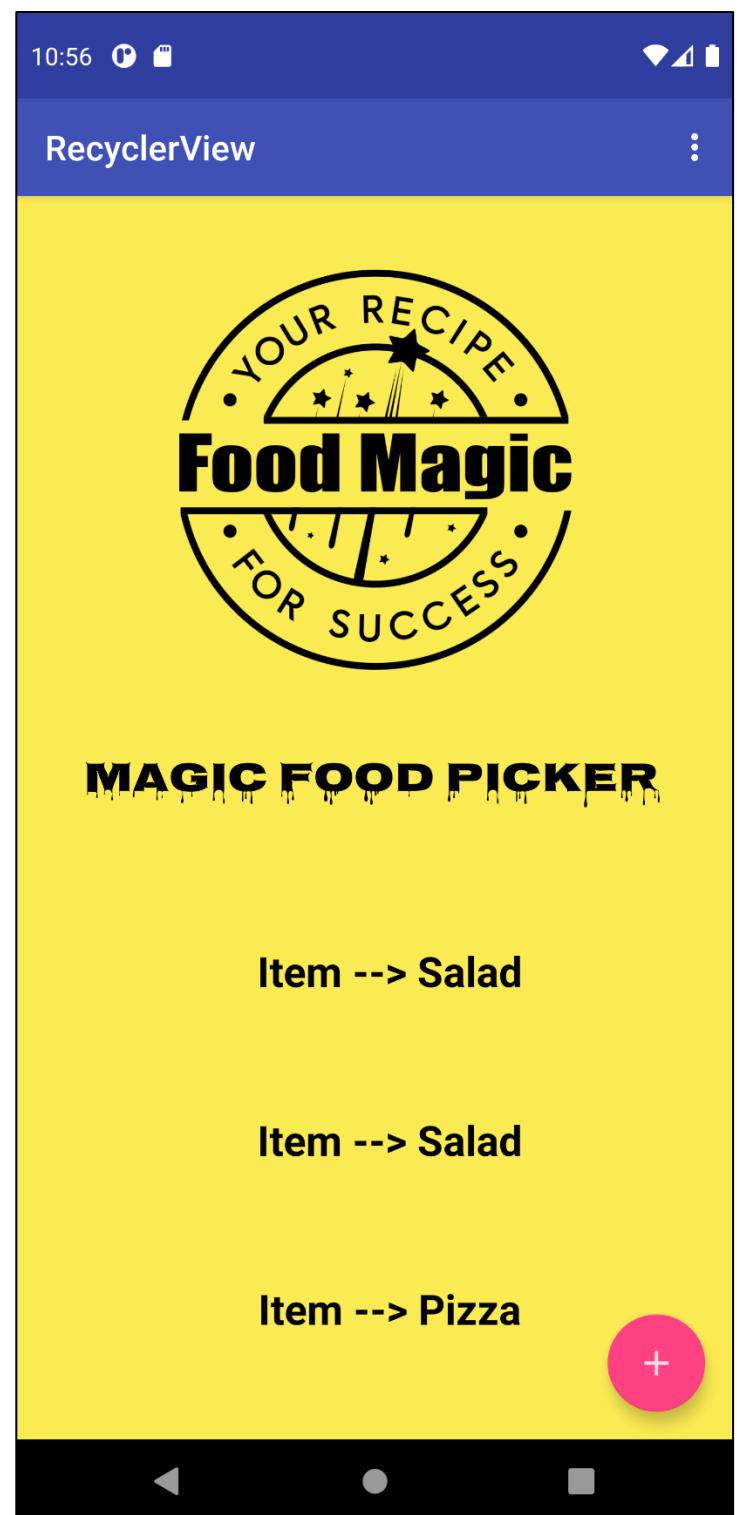


Note: Clicking on the item from the magic food picker list will change the item's text to a food item by randomly picking it from the menu array. This eventually adds the magic dish to the cart. By doing this we are letting the user to win food items.

7. Click on cibo item - 0



8. Click on cibo item – 1, 2



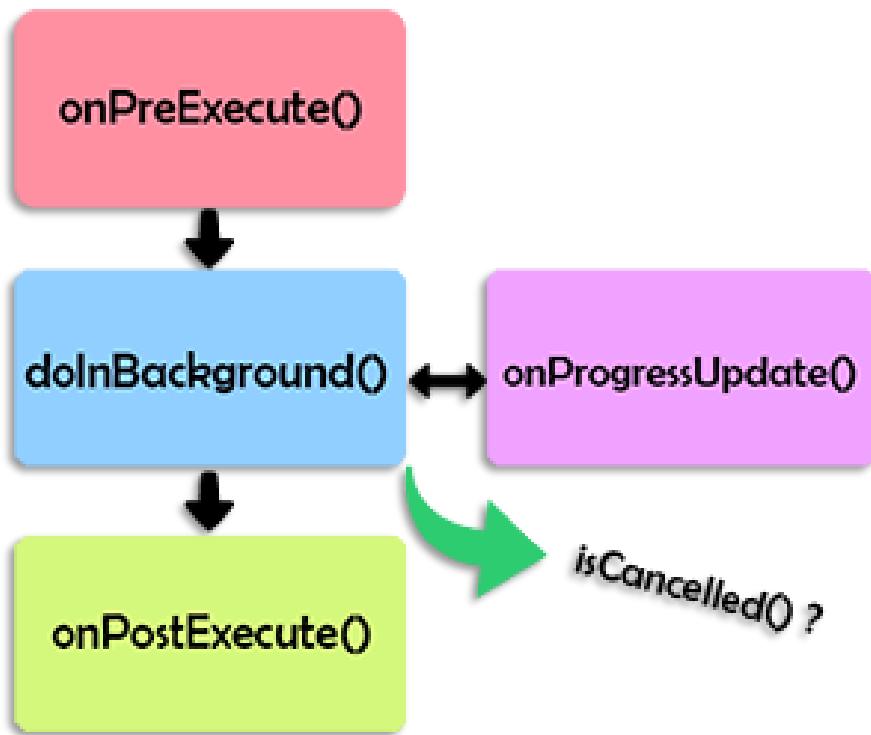
Note: From the above screen shots it is evident that the user was unlucky as he/she got the same dish(Salad) twice. So only items were added to their cart (Salad and Pizza).

9. Items Won - Cart



10. Congratulations Message





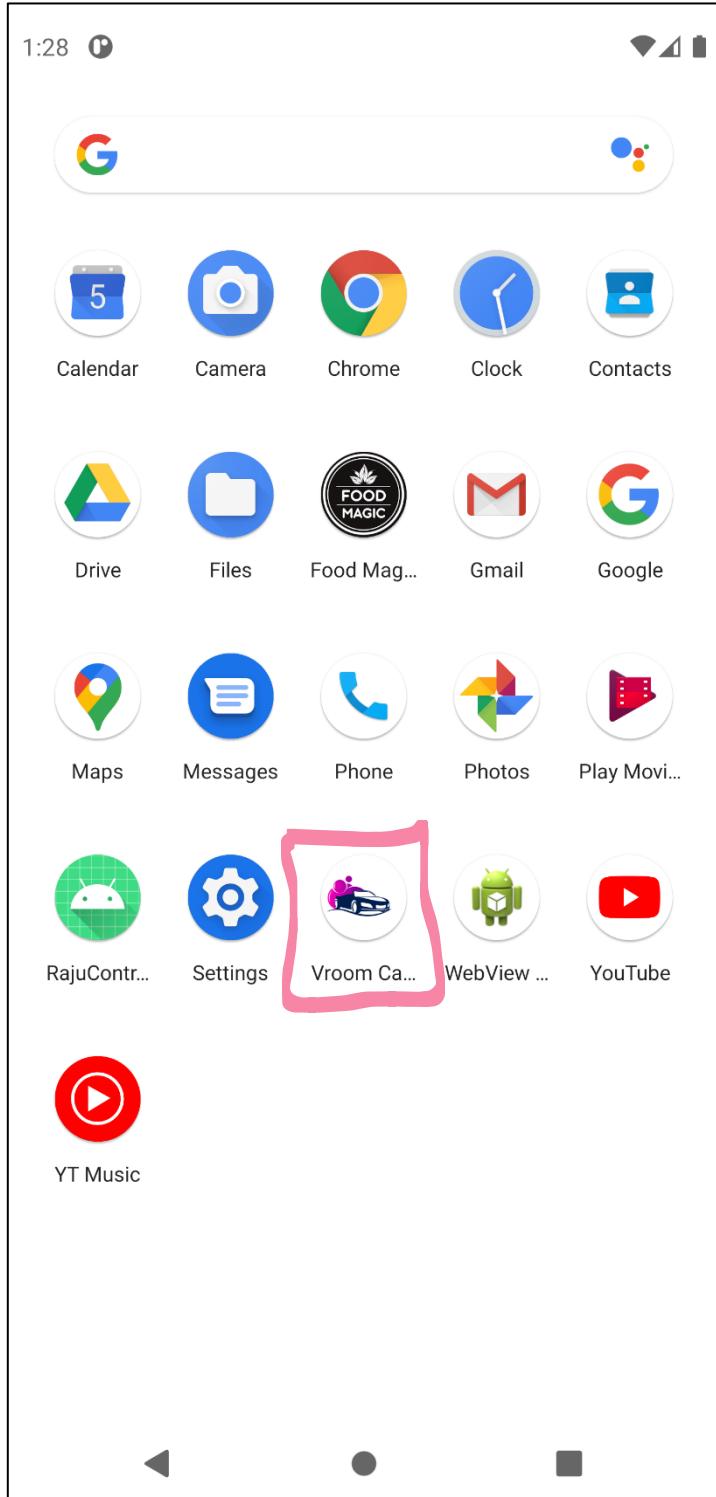
Lab 11 : Async Task

Name : Rajkumar B L
Reg.No : 2047120
Course : MCS 272 Mobile Application
(Lab 11 – Vroom Car Share)

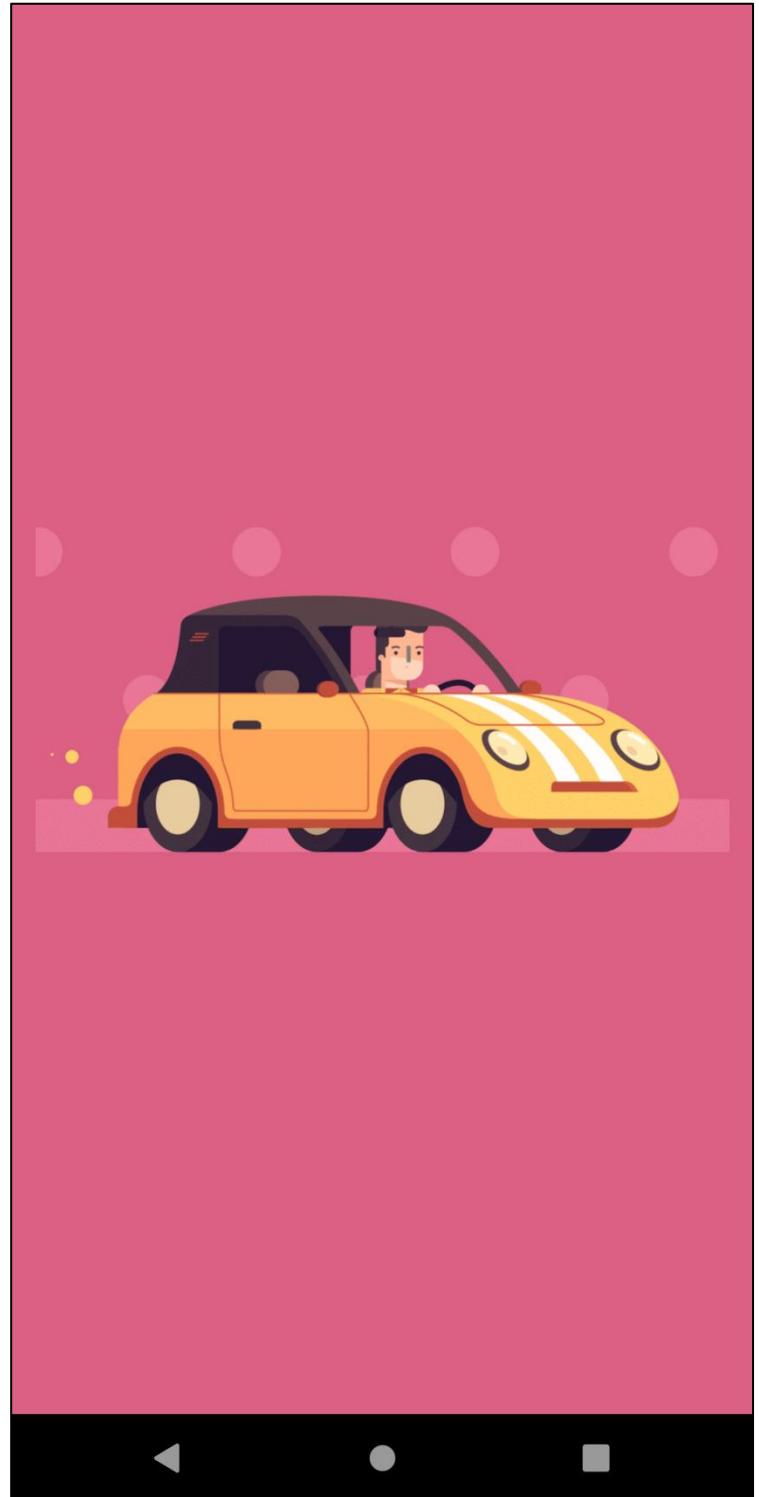


Output:

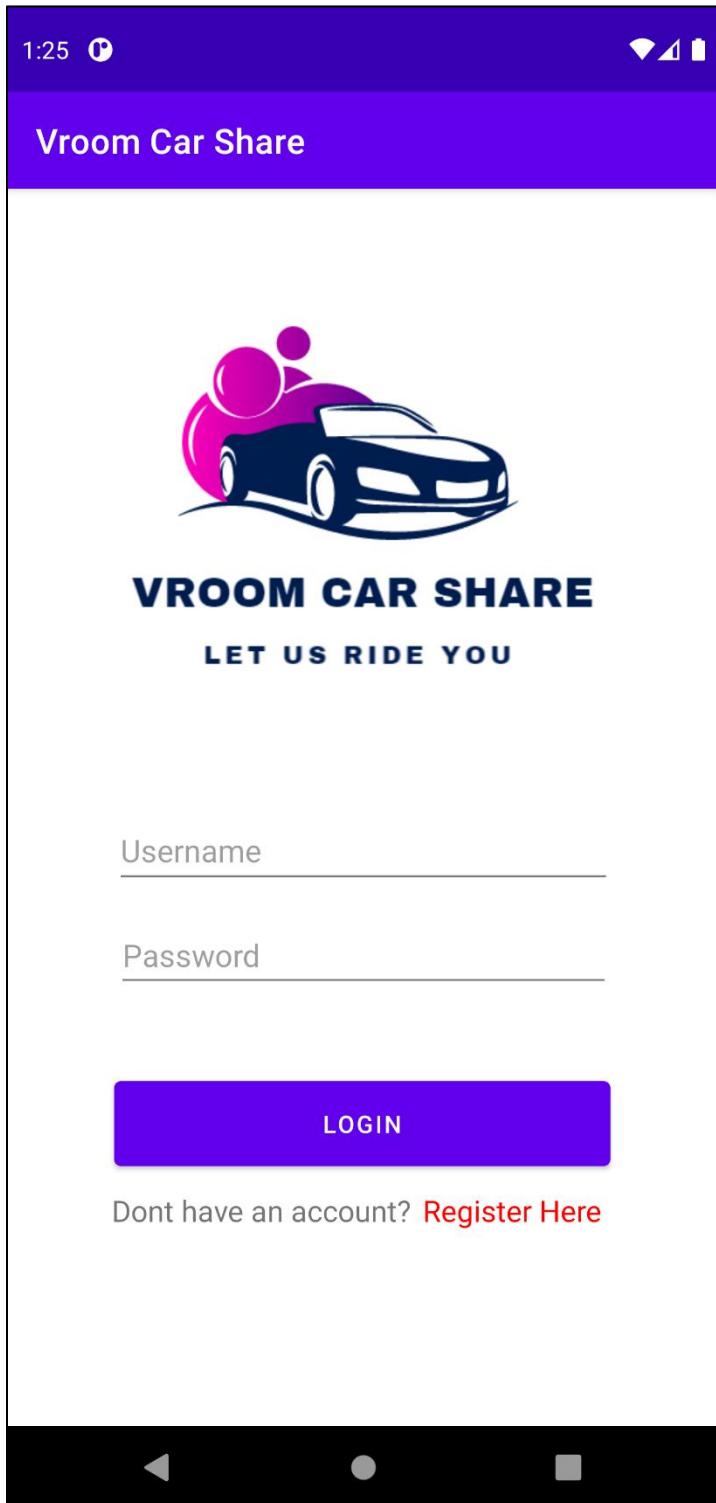
1. App Icon



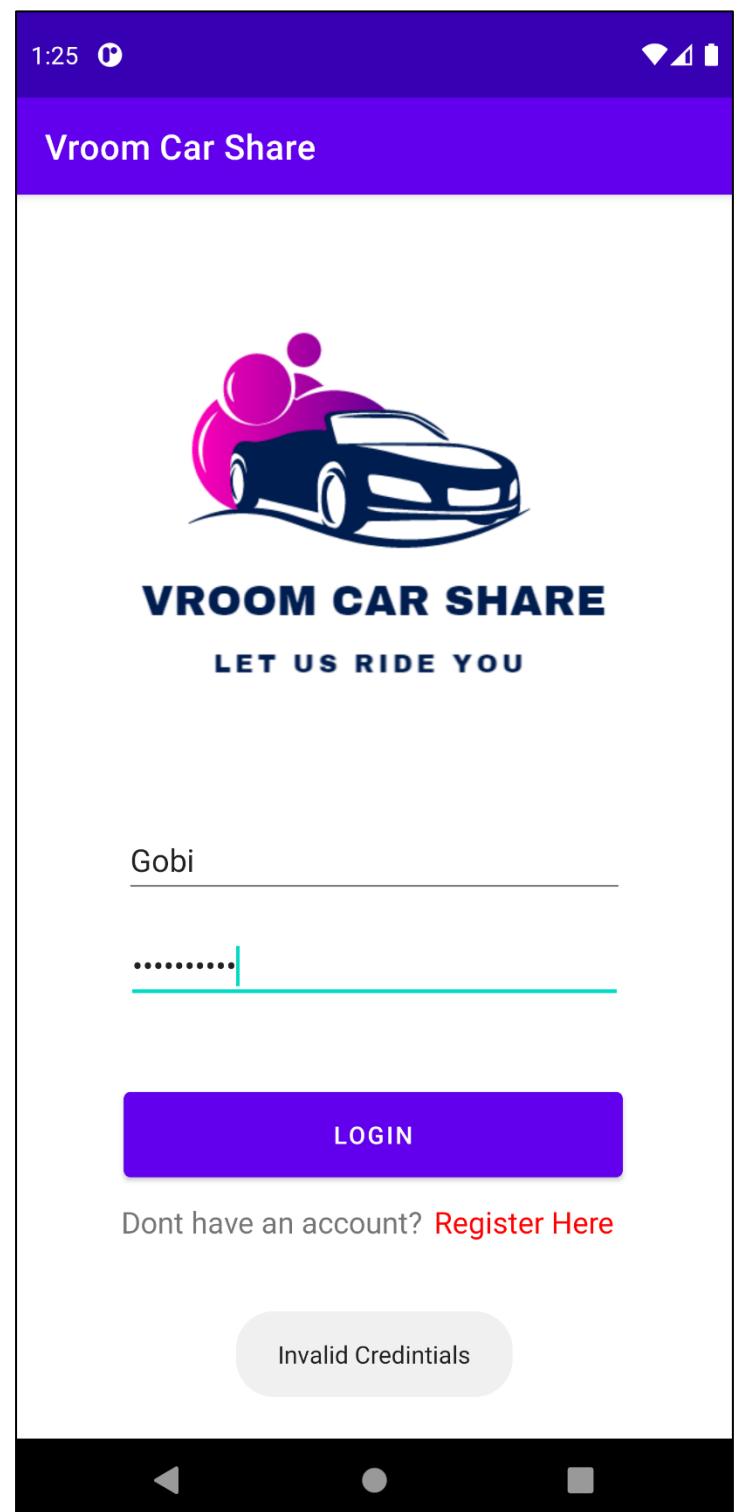
2. Splash Screen



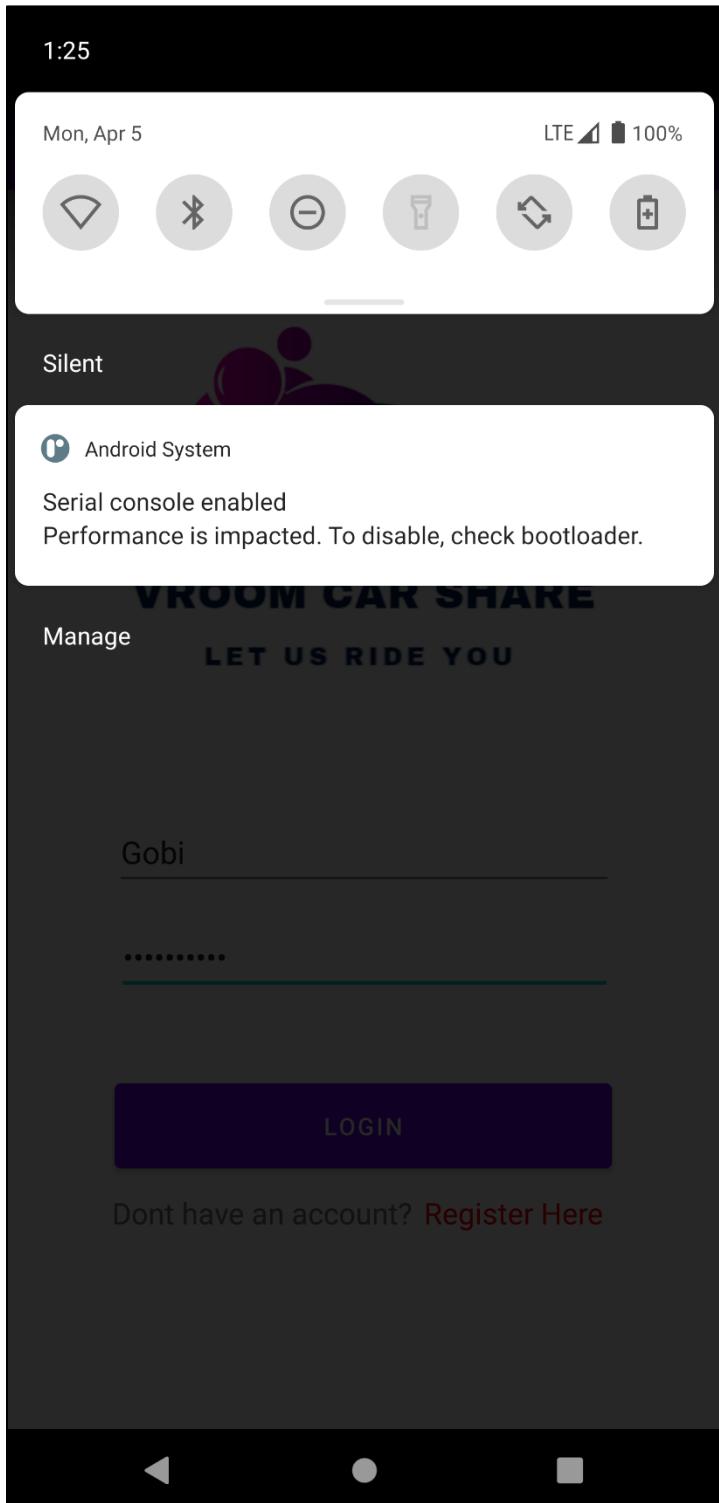
3. Welcome Screen



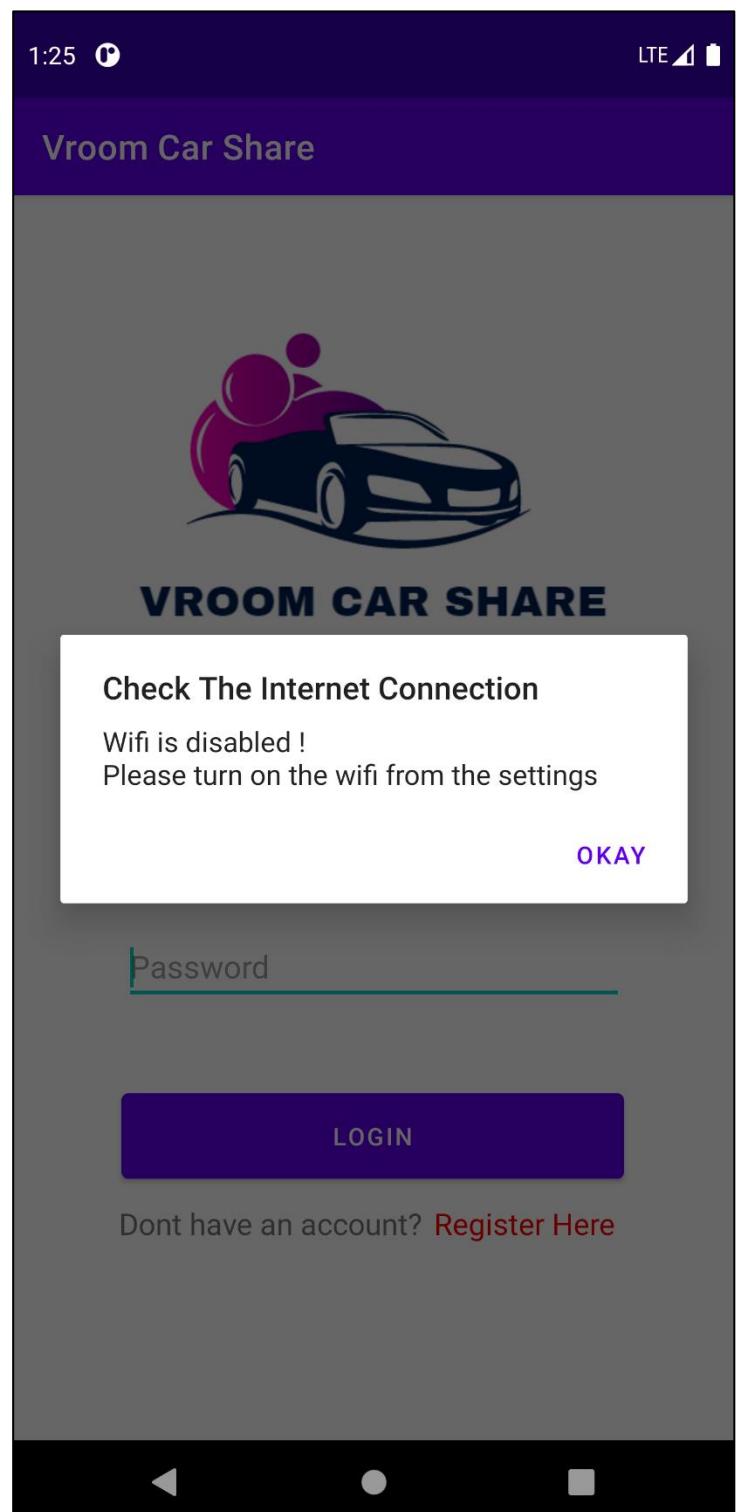
4. Invalid Login



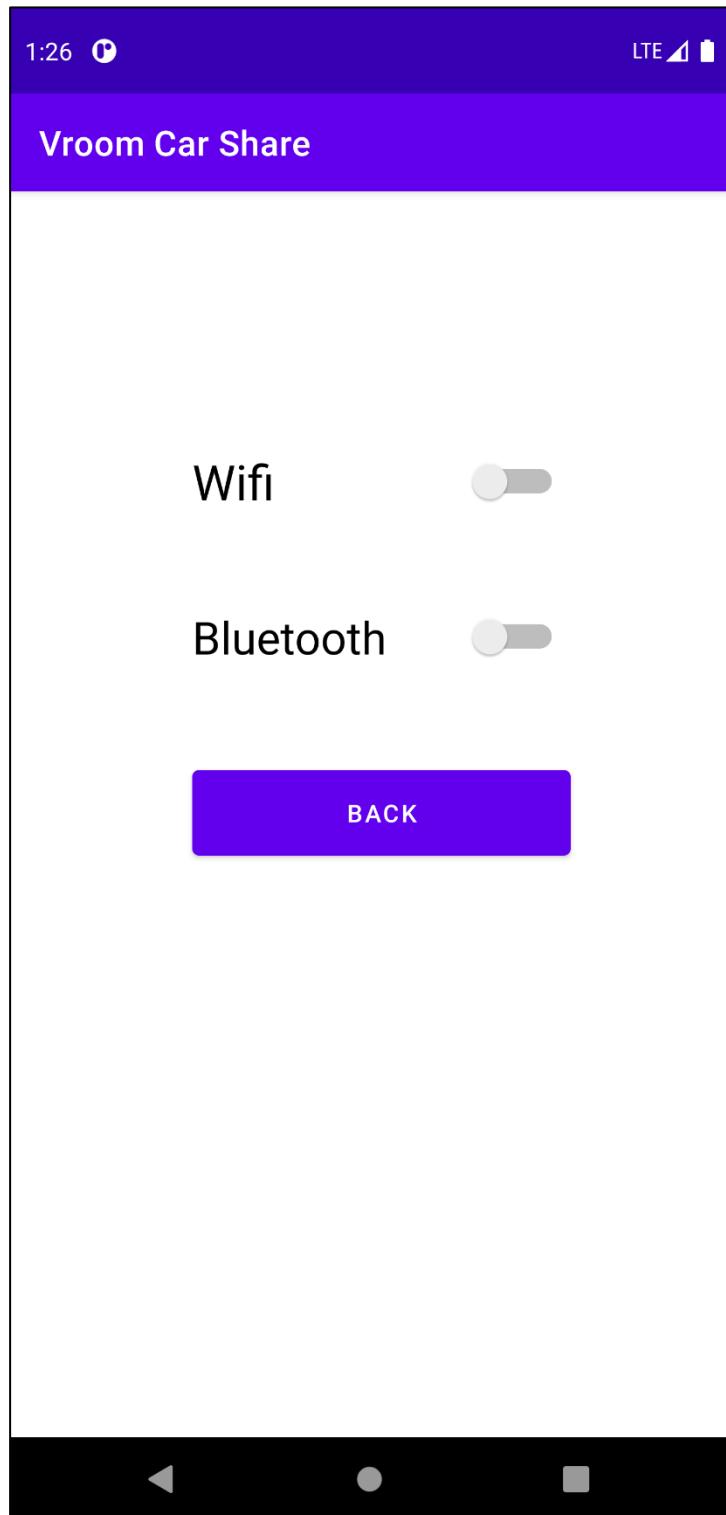
5. Wi-Fi is disabled



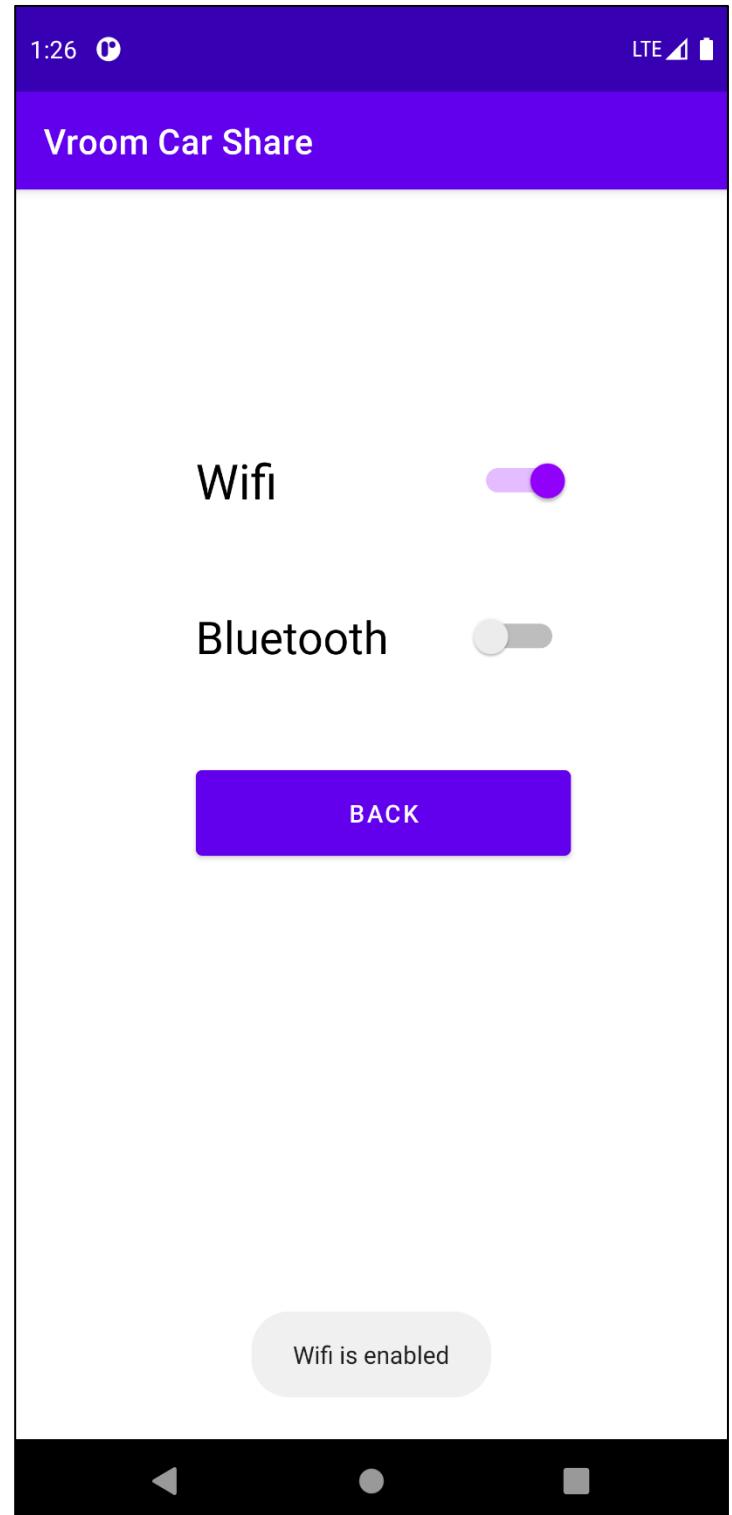
6. Register – No Internet



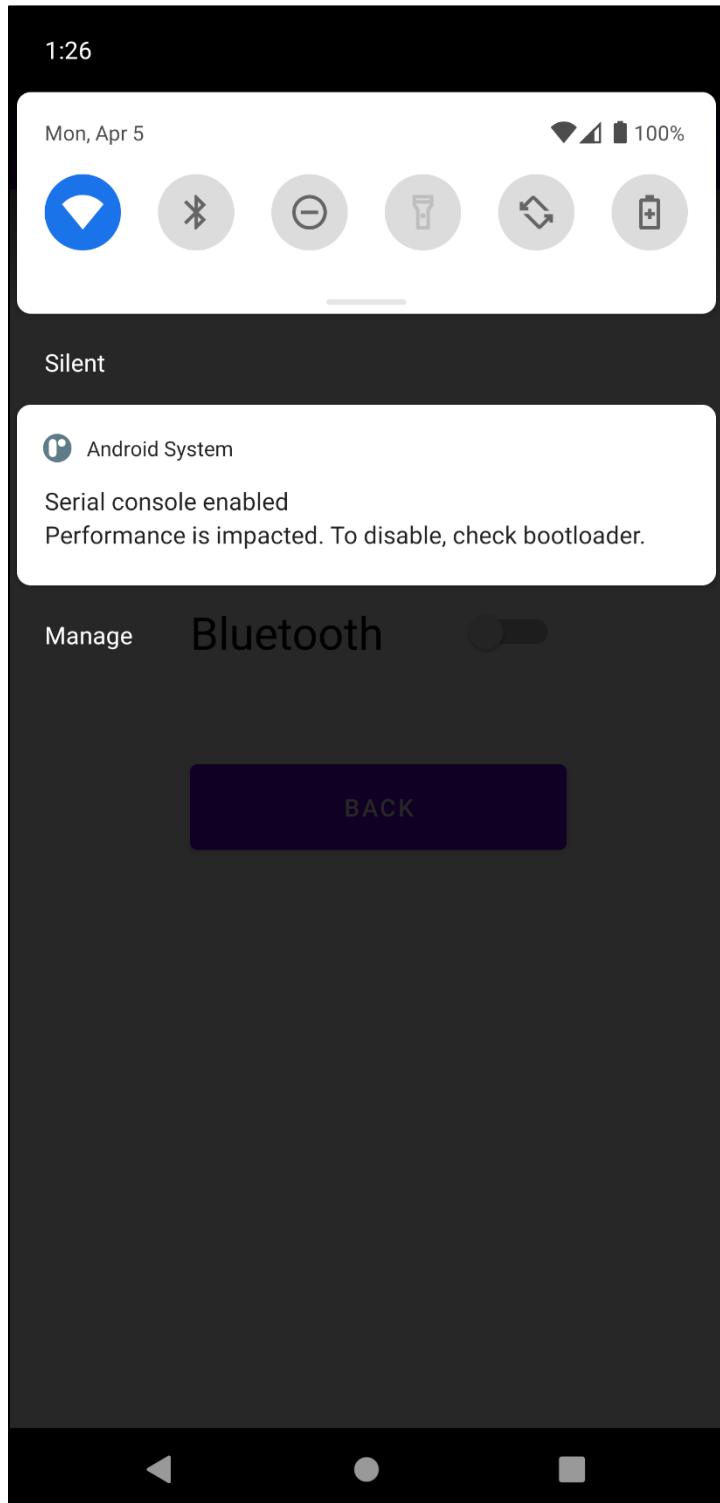
7. Raju Control Panel - Settings



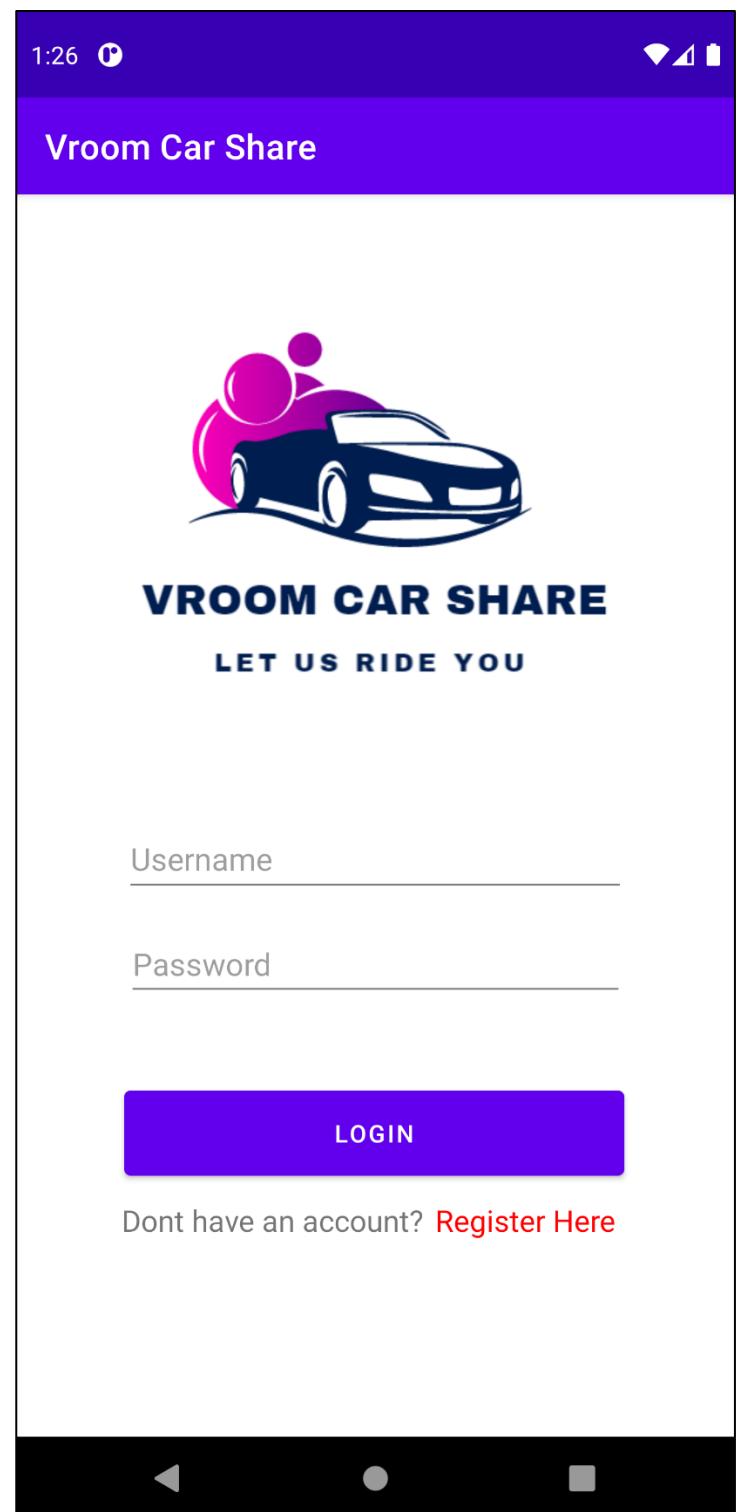
8. Wi-Fi is enabled (01)



9. WI-FI is enabled (02)



10. Click on register again



11. Register Form

Register Form

Firstname

Lastname

Email

Phone Number

Date Of Birth

Driver License

Street

City



12. Register Form (01)

Register Form

Gobi

S

gobi.s@crs.in

9361048881

27June86

TN1234

SG Palya

Bengaluru



13. Register Form (02)

A screenshot of a mobile application showing a registration form. The form consists of six text input fields stacked vertically. The first field contains the email address "gobi.s@crs.in". The second field contains the phone number "9361048881". The third field contains the date "27June86". The fourth field contains the vehicle registration number "TN1234". The fifth field contains the address "SG Palya". The sixth field contains the state "Bengaluru". Below the form is a large purple "SUBMIT" button. At the bottom of the screen are standard Android navigation icons: a back arrow, a circular home button, and a square recent apps button.

gobi.s@crs.in

9361048881

27June86

TN1234

SG Palya

Bengaluru

KA

501005

SUBMIT

14. Register Form (Loading)

A screenshot of the same mobile application as in the previous image, but with a modal dialog box overlaid on the screen. The dialog box has a white background and a thin black border. It contains a small teal loading icon followed by the text "Loading...". Behind the dialog, the registration form fields are visible but appear dimmed or faded. The "SUBMIT" button is also present but appears dimmed. The bottom navigation icons are visible at the very bottom of the screen.

gobi.s@crs.in

9361048881

27June86

TN1234

SG Palya

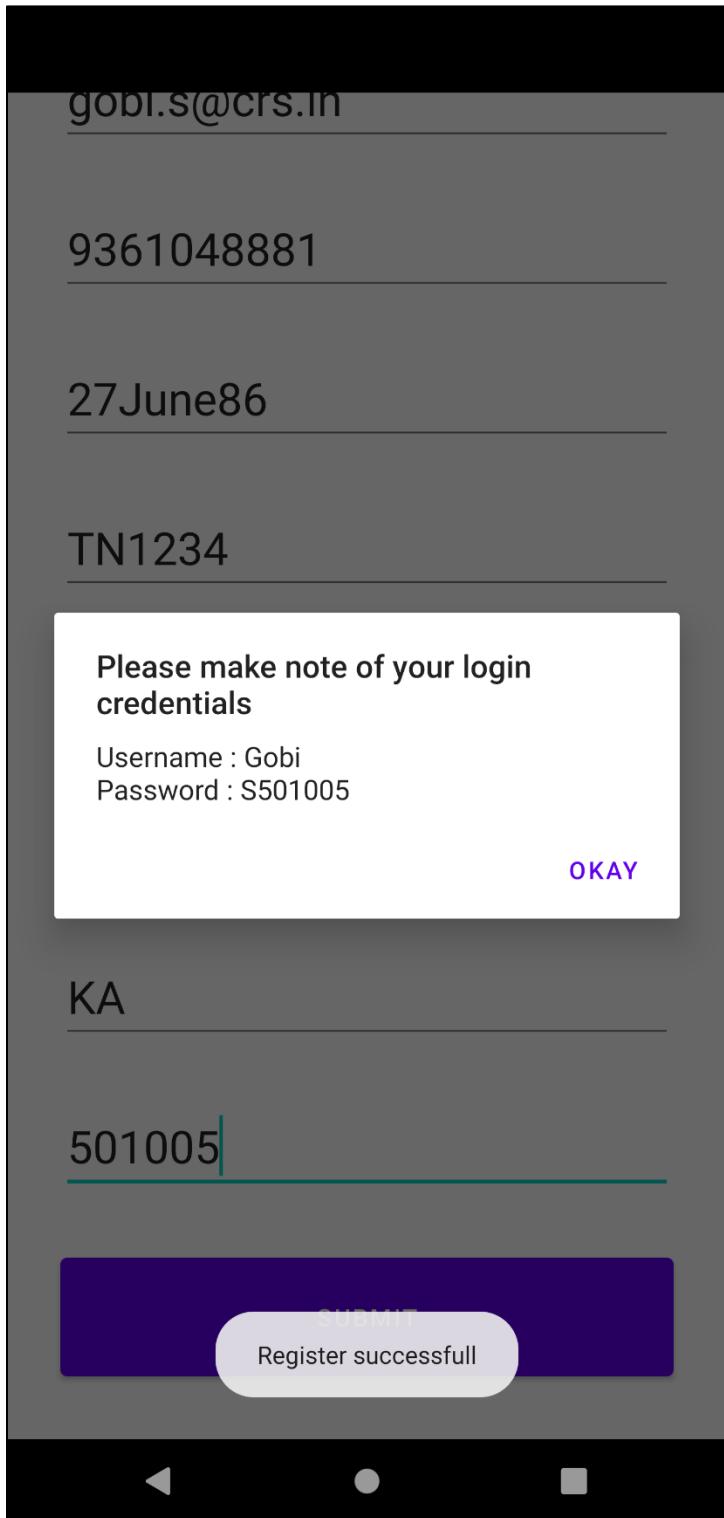
Bengaluru

KA

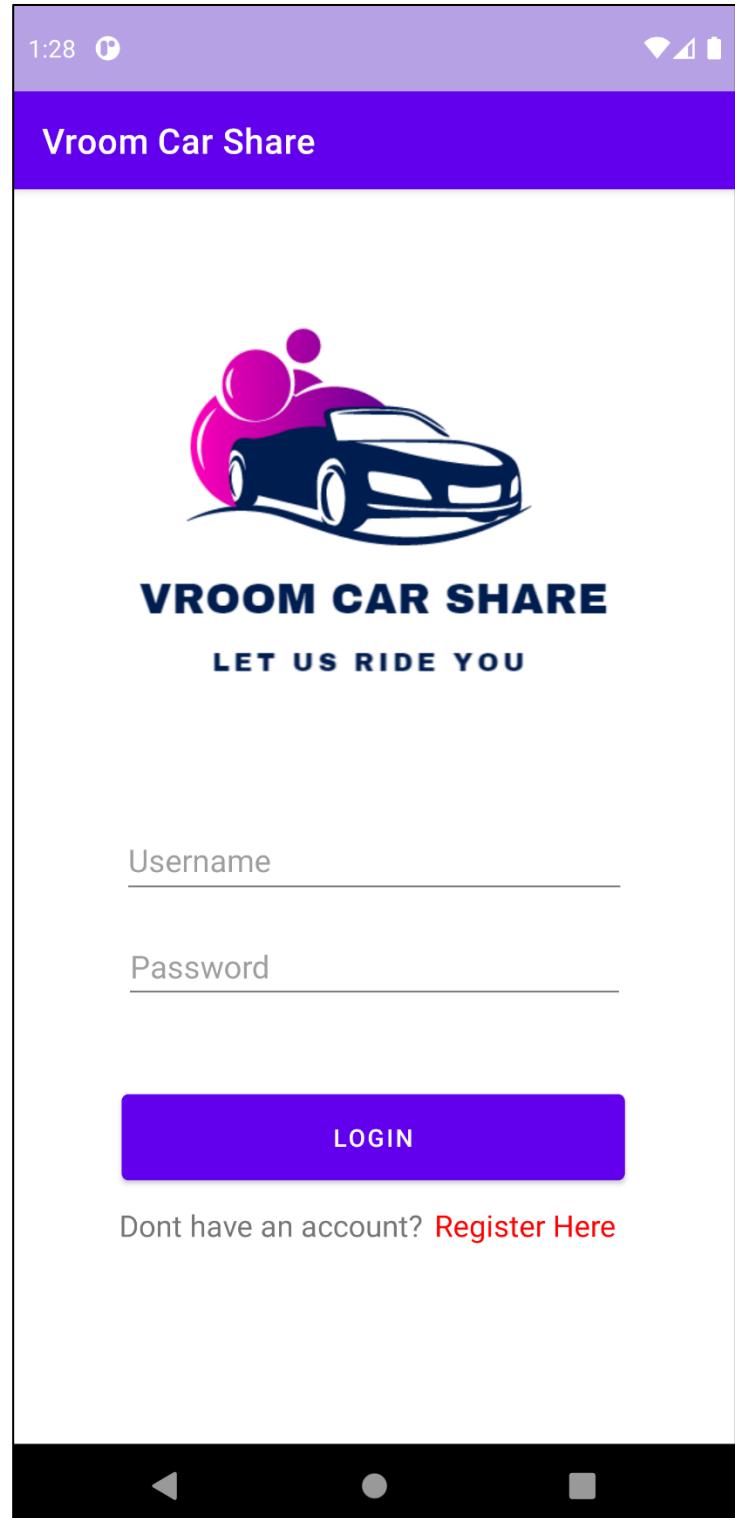
501005

SUBMIT

15. Register Success



16. Login Page



17. PHPmyadmin – MySQL - Database Before Registration

The screenshot shows the 'customer' table in the 'crs' database. The table has columns: UserID, FirstName, LastName, Email, PhoneNumber, DOB, DLnumber, Street, City, State, and Zipcode. There are three rows of data:

UserID	FirstName	LastName	Email	PhoneNumber	DOB	DLnumber	Street	City	State	Zipcode
2047120	Raj	Kumar	raju@gmail.com	9361048881	June 27	TN123456	ML	TUP	Tn	641663
2047171	Sreeja	CS	Sreeja@crs.in	78967832	2002-08-09	Ka12345	SG Palya	Bengaluru	KA	501005
2047204	Laxmy	Narayan	laxmy@crs.in	934566543	Mar 15,1998	123456	SG Palya	Bengaluru	KA	501005

At the bottom, there are buttons for 'Check all', 'With selected:', 'Edit', 'Copy', 'Delete', and 'Export'.

18. PHPmyadmin – MySQL - Database After Registration

The screenshot shows the 'customer' table in the 'crs' database after a new row has been added. The table now has four rows of data:

UserID	FirstName	LastName	Email	PhoneNumber	DOB	DLnumber	Street	City	State	Zipcode
102	Gobi	S	gobi.s@crs.in	9361048881	27June86	TN1234	SG Palya	Bengaluru	KA	501005
2047120	Raj	Kumar	raju@gmail.com	9361048881	June 27	TN123456	ML	TUP	Tn	641663
2047171	Sreeja	CS	Sreeja@crs.in	78967832	2002-08-09	Ka12345	SG Palya	Bengaluru	KA	501005
2047204	Laxmy	Narayan	laxmy@crs.in	934566543	Mar 15,1998	123456	SG Palya	Bengaluru	KA	501005

At the bottom, there are buttons for 'Check all', 'With selected:', 'Edit', 'Copy', 'Delete', and 'Export'.

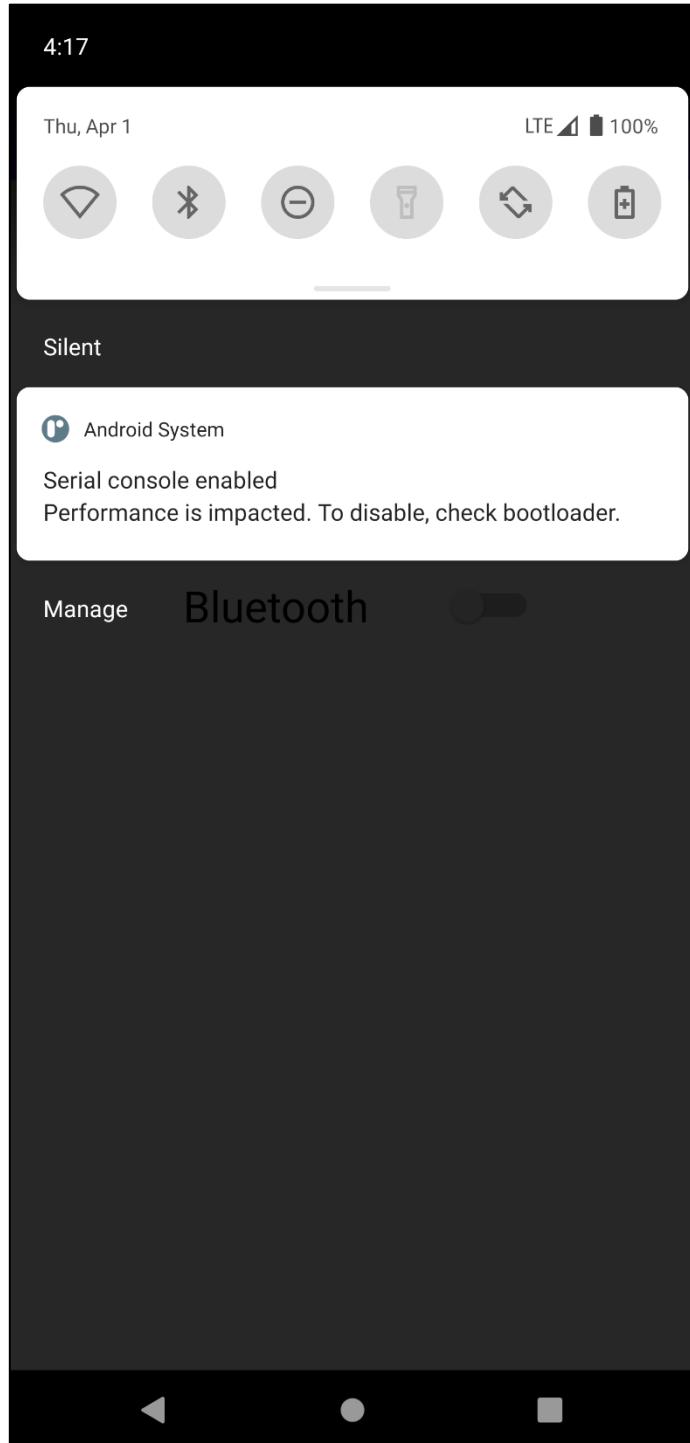


Lab 12 : Broadcast Receiver

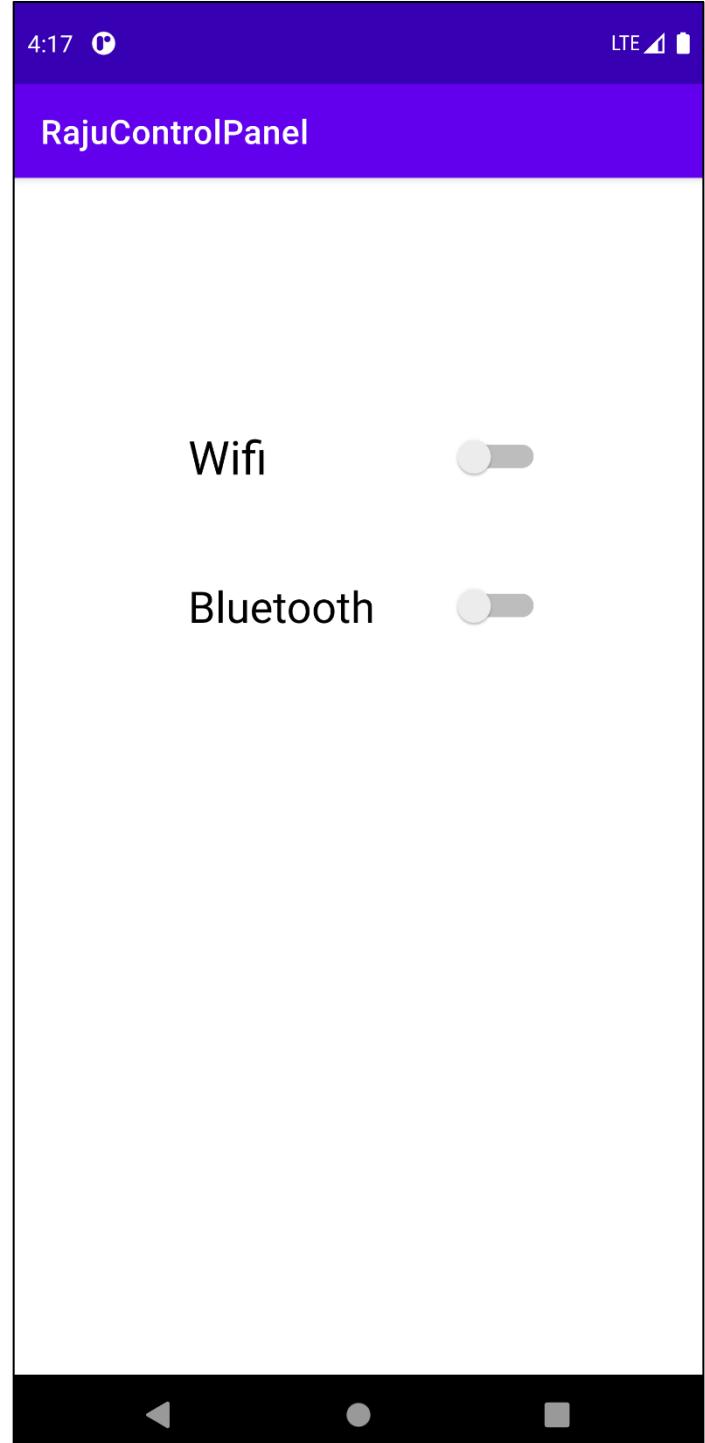
Name : Rajkumar B L
Reg.No : 2047120
Course : MCS 272 Mobile Application
(Lab 12 – Raju Control Panel)

Output:

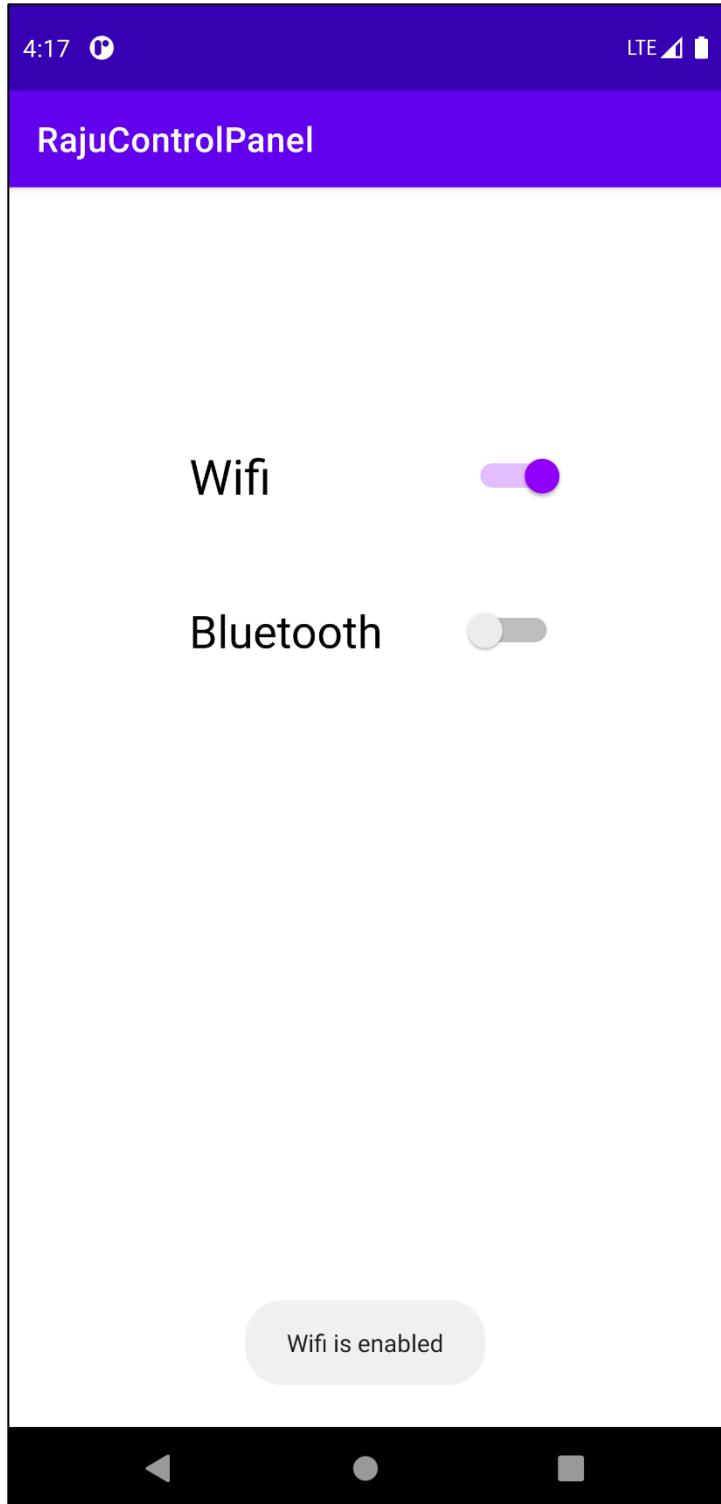
1. Initial Setup



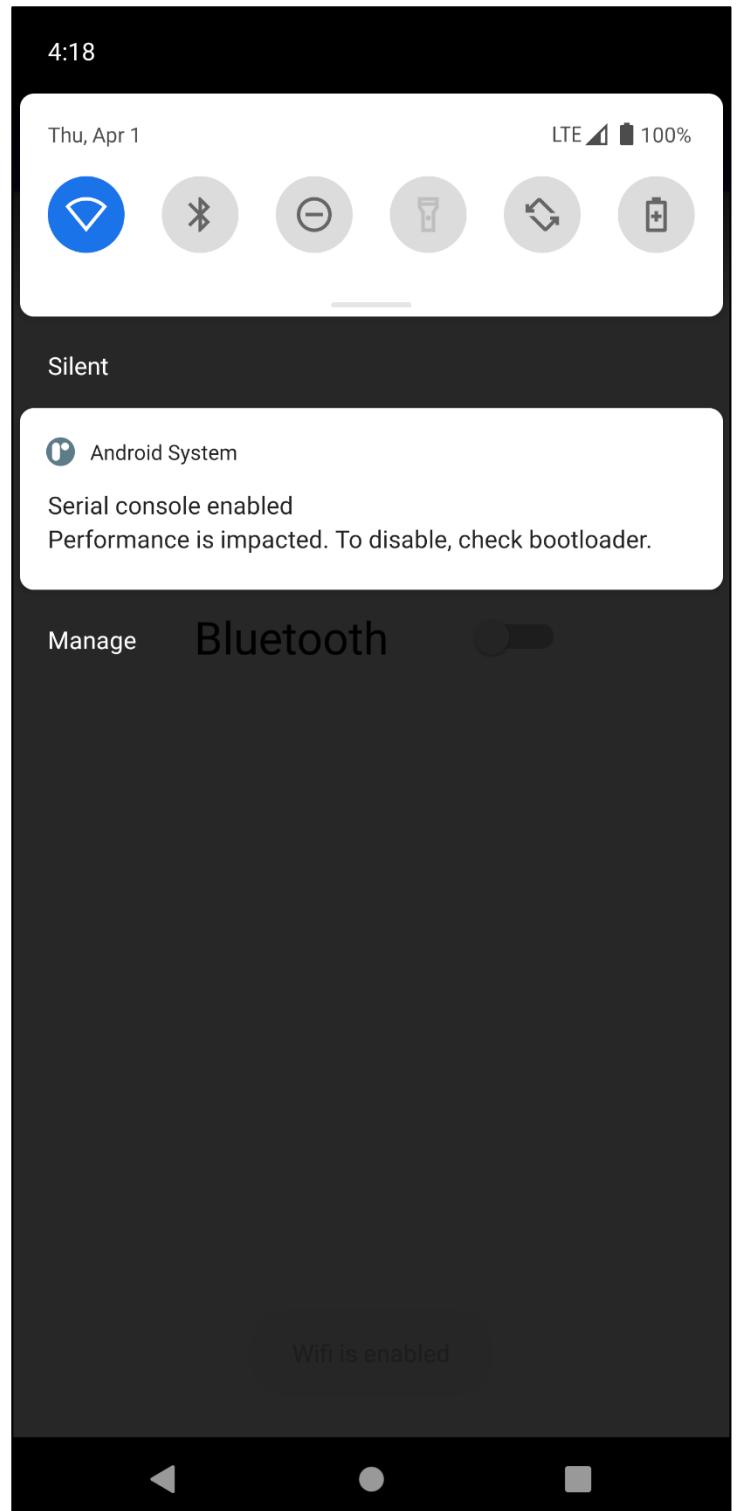
2. Wifi & Bluetooth is OFF



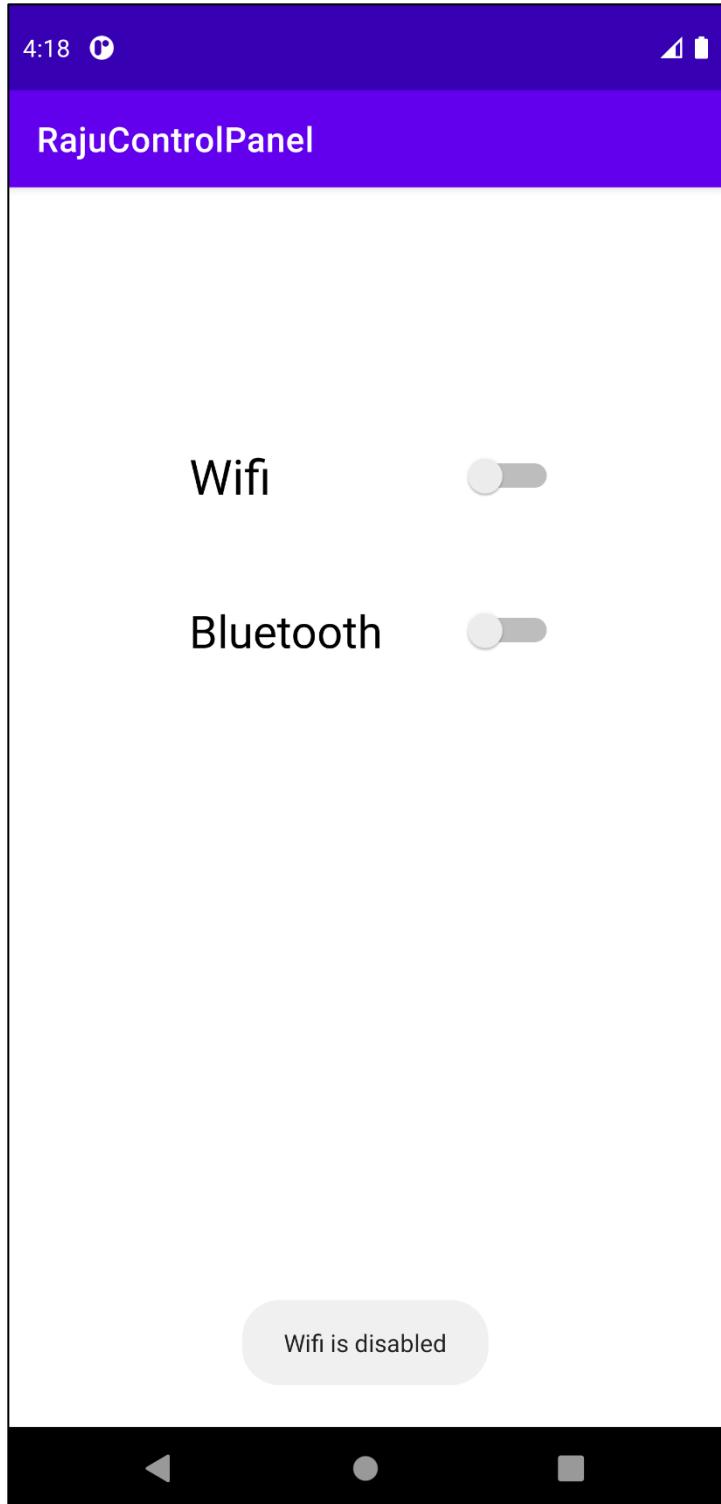
3. Wifi On (1)



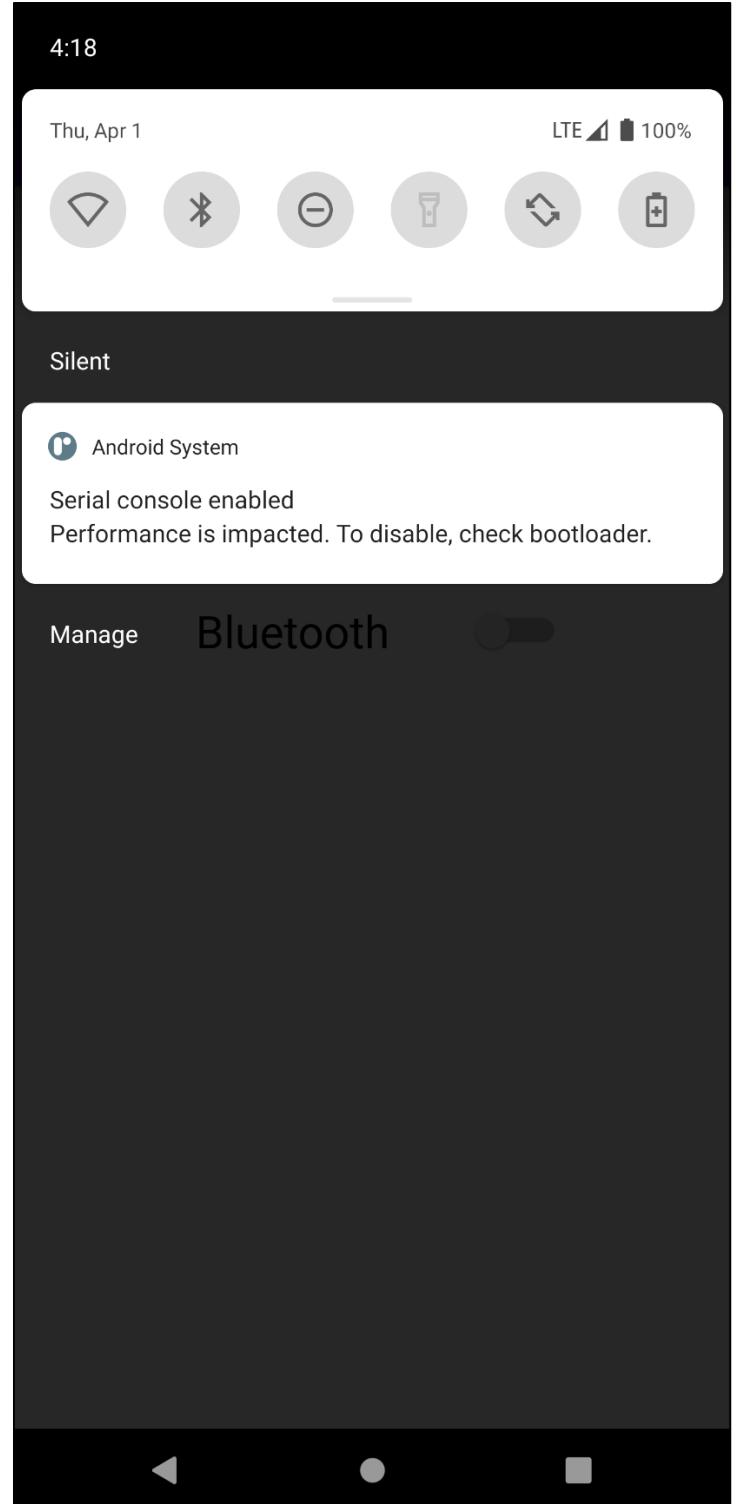
4. Wifi On (2)



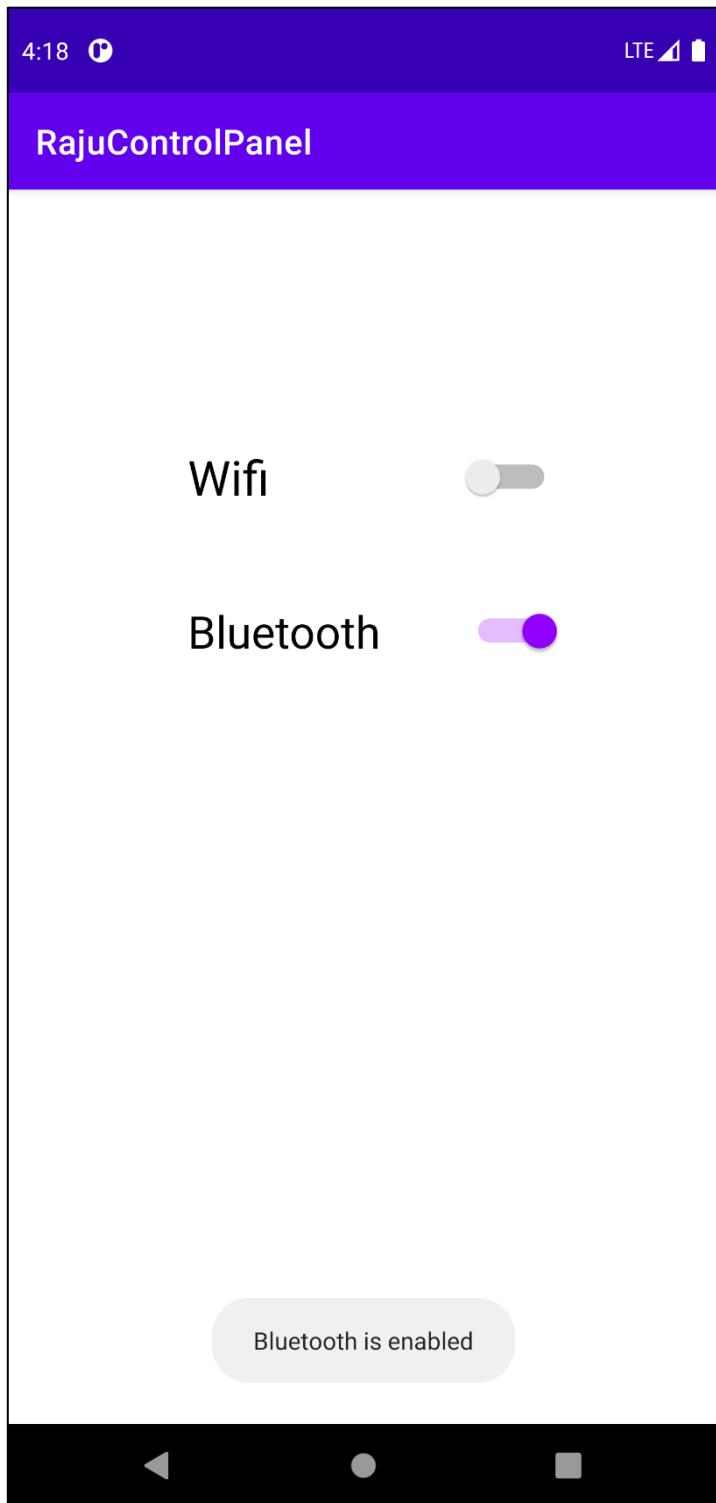
5. Wifi Off (1)



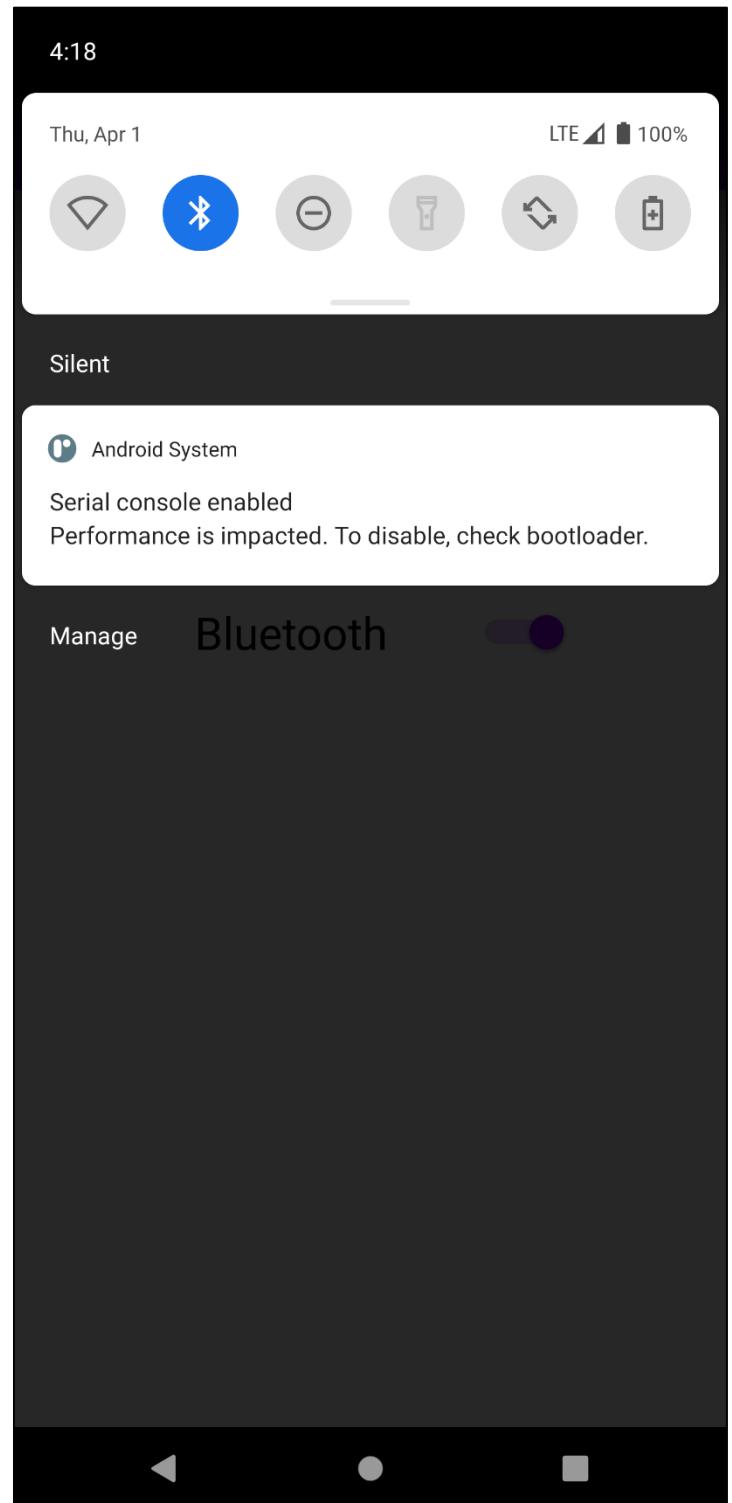
6. Wifi Off (2)



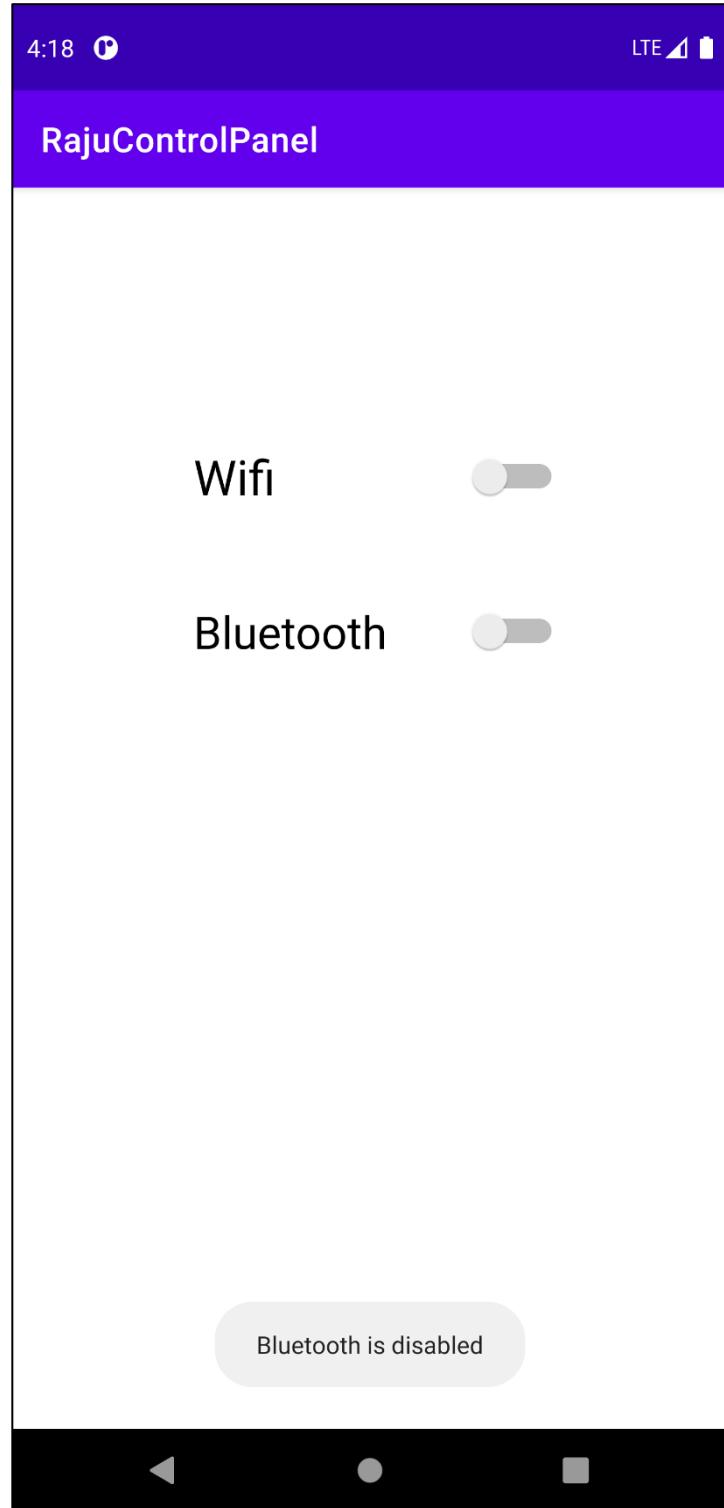
7. Bluetooth On (1)



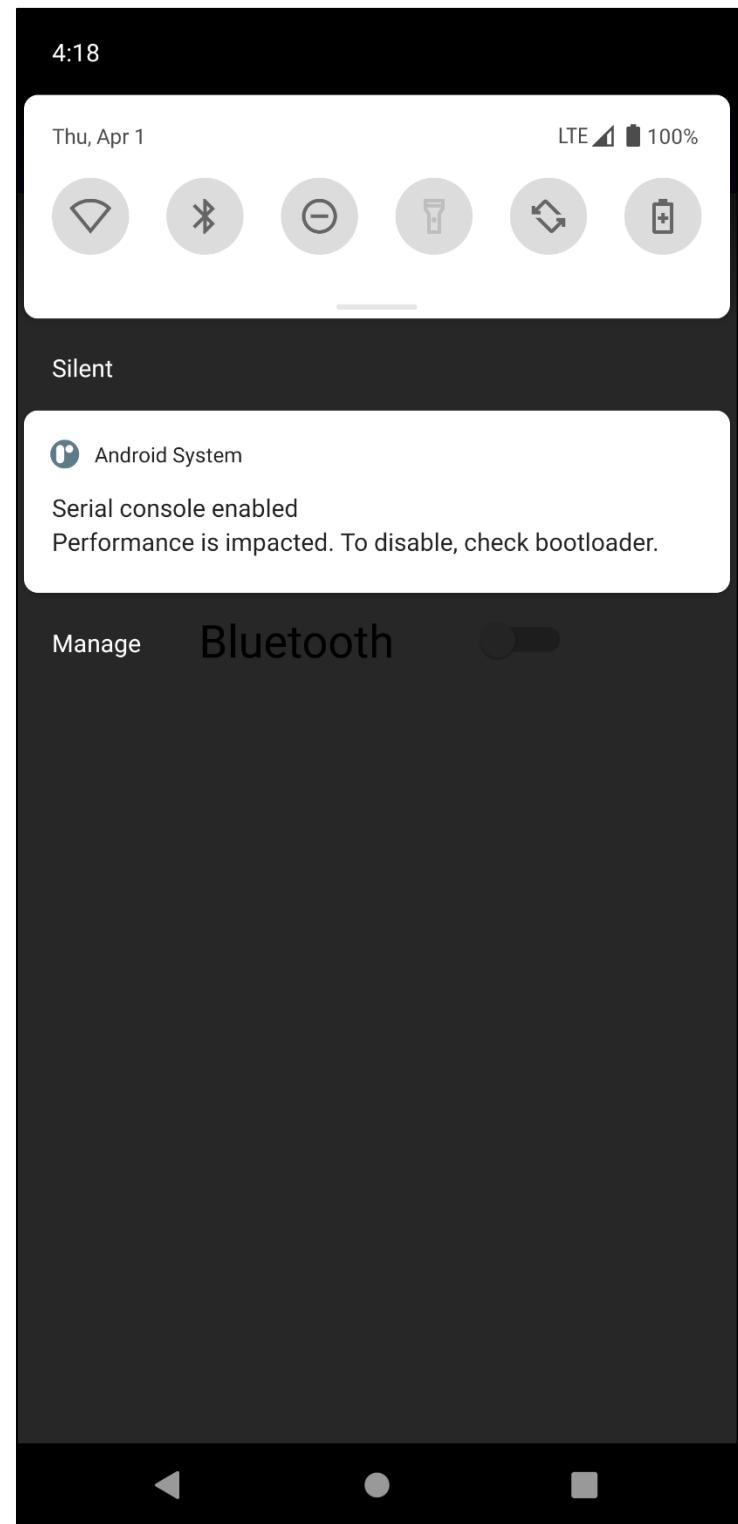
8. Bluetooth On (2)

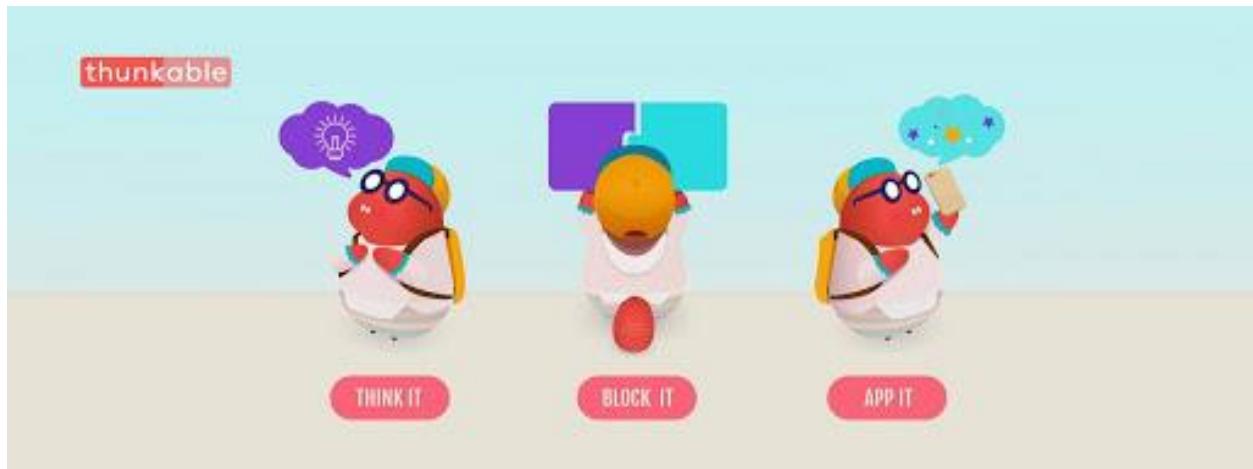


9. Bluetooth Off (1)



10. Bluetooth Off (2)





Lab 14 : App Development without coding

Name : Rajkumar B L
Reg.No : 2047120
Course : MCS 272 Mobile Application
(Lab 14 – Thunkable App)

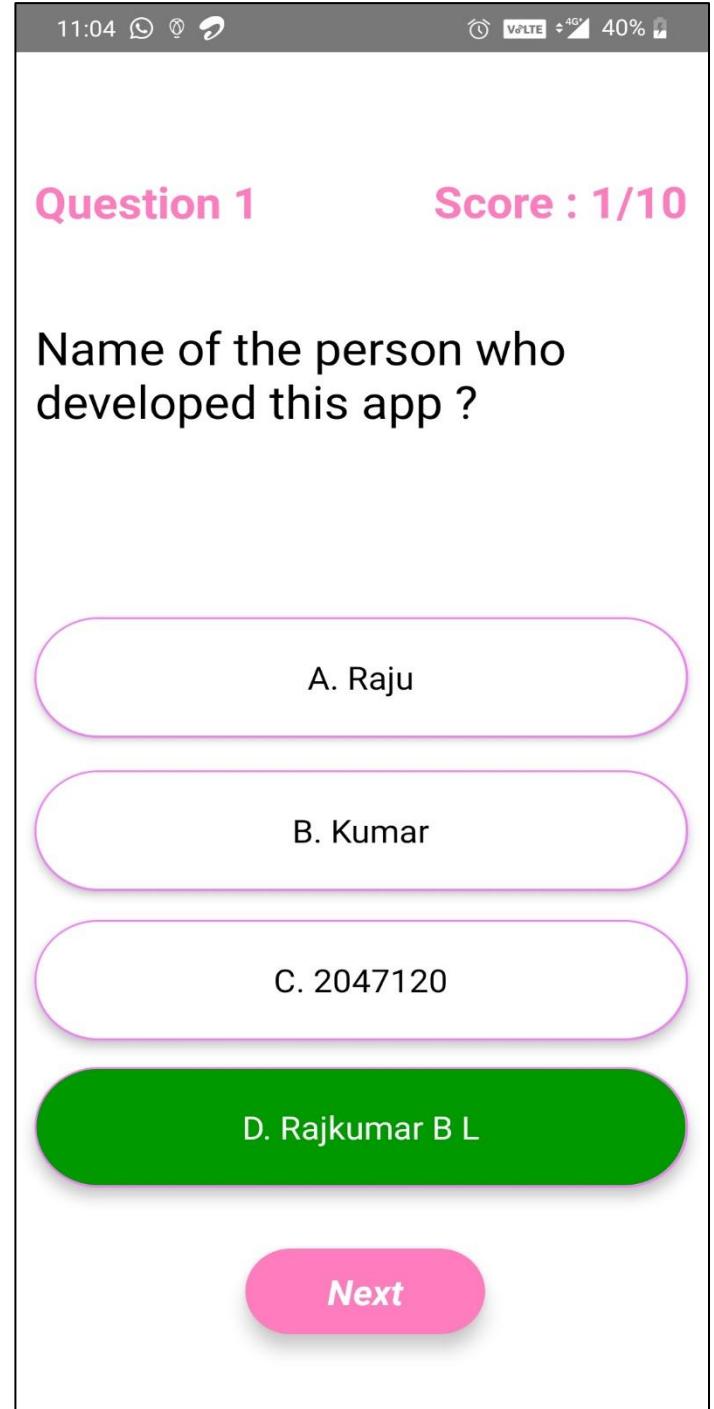


Output:

1. Splash Screen



2. Quiz Screen - 01



Question 1 Score : 1/10

Name of the person who developed this app ?

- A. Raju
- B. Kumar
- C. 2047120
- D. Rajkumar B L

Next

3. Quiz Screen - 02

11:05 40%

Question 2 **Score : 2/10**

Mobile Application course is taught by ?

- A. Professor Manjunath
- B. Professor Gobi**
- C. Professor Prabhu
- D. Professor Sandeep

Next

4. Quiz Screen - 03

11:05 40%

Question 3 **Score : 2/10**

Computer Science Department HOD Name?

- A. Professor Tulasi
- B. Professor Prabhu
- C. Professor JP**
- D. Professor Deepti

Next

5. Quiz Screen - 04

11:05 40%

Question 4 **Score : 3/10**

Co-Ordinator for MCS, MCA, MDS ?

- A. Professor Tulasi
- B. Professor Prabhu
- C. Professor Rajesh
- D. Professor Chandra

Next

6. Quiz Screen - 05

11:06 41%

Question 5 **Score : 3/10**

What is the Strength of MCS 2021 batch ?

- A. 63
- B. 56
- C. 52
- D. 53

Next

7. Quiz Screen - 06

11:06 4G 41%

Question 6 **Score : 4/10**

Who is the current class teacher of 2-MCS ?

- A. Professor Rajesh
- B. Professor Gobi**
- C. Professor Prabhu
- D. Professor Manjunath

Next

8. Quiz Screen - 07

11:06 4G 41%

Question 7 **Score : 4/10**

When will the campus re-open ?

- A. April 24, 2021
- B. May 02, 2021
- C. June 15, 2021
- D. 404 Error**

Next

9. Quiz Screen - 08

11:07 41%

Question 8 **Score : 4/10**

Find the answer for --> $2+2 = ?$

- A. 4
- B. 22
- C. Four
- D. TwoTwo

Next

10. Quiz Screen - 09

11:07 41%

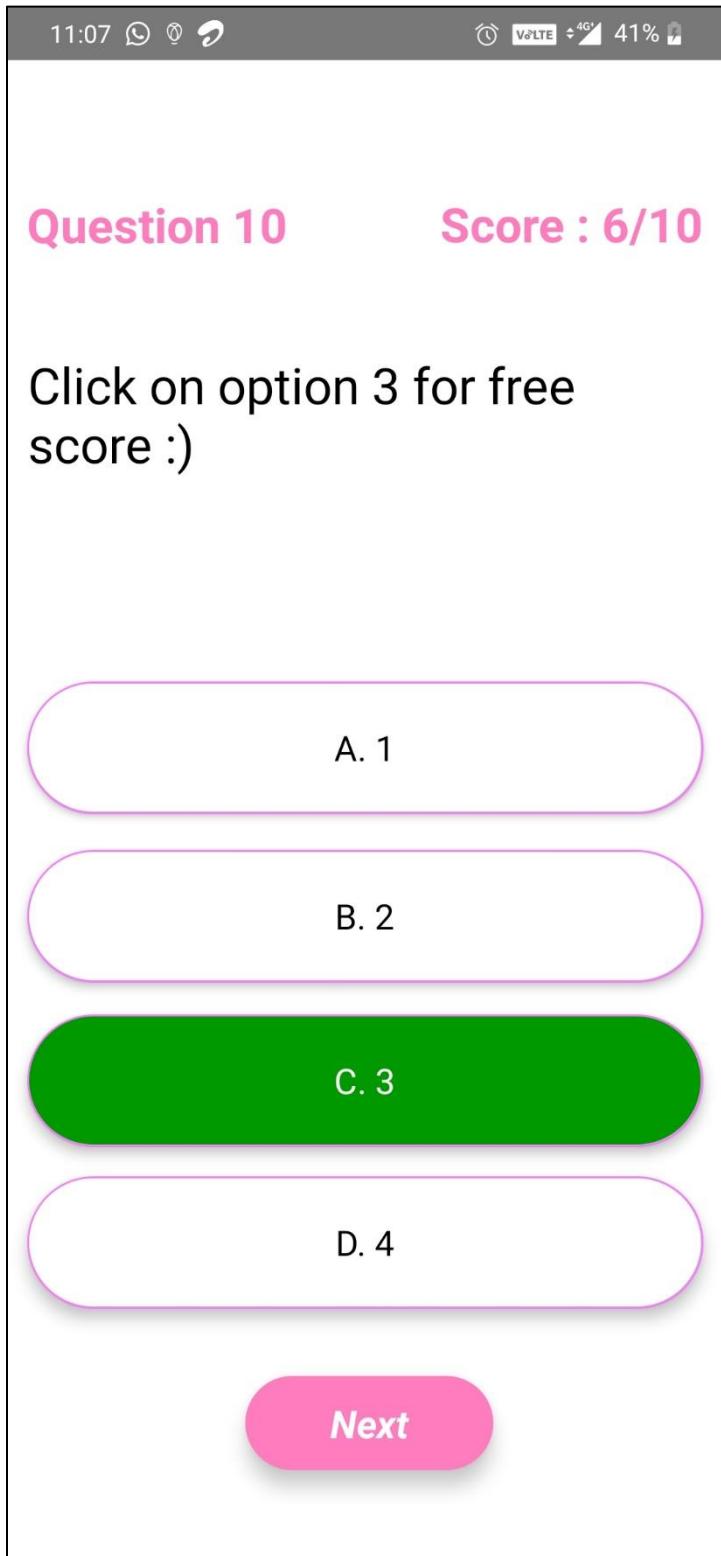
Question 9 **Score : 5/10**

First Mobile Phone Name ?

- A. Motorola 8000x
- B. Motorola Dynatac
- C. Nokia
- D. Motorolla Cooper

Next

11. Quiz Screen - 10

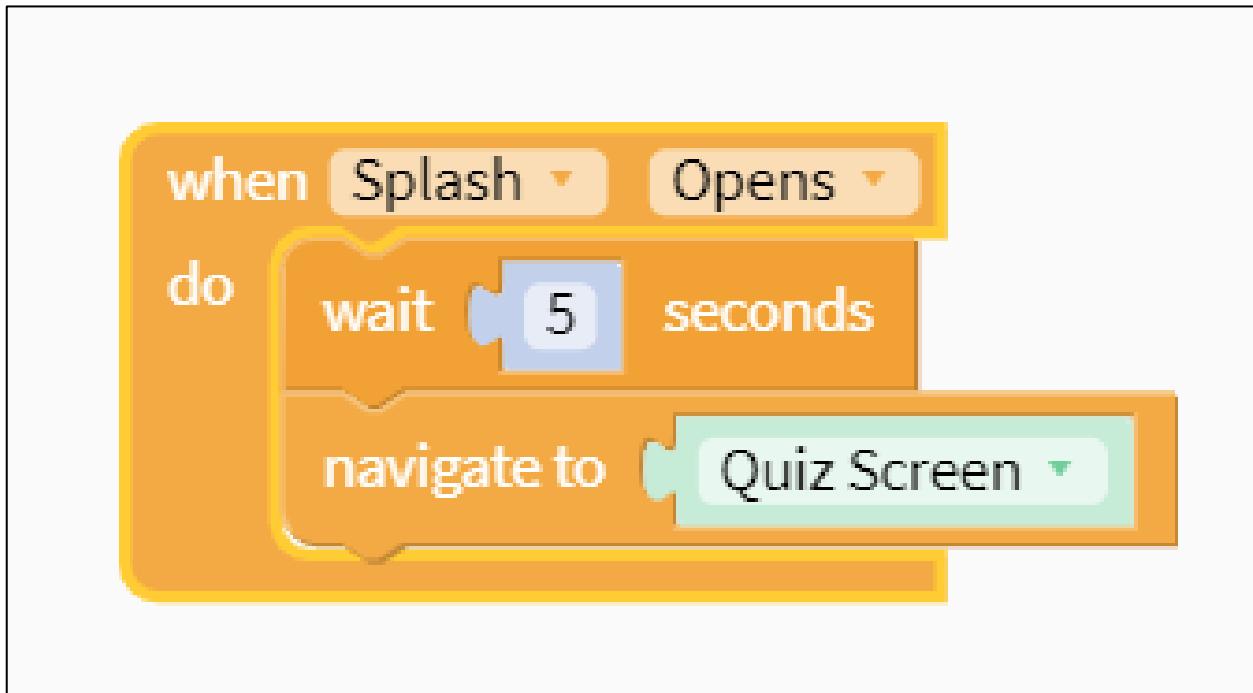


12. End Screen

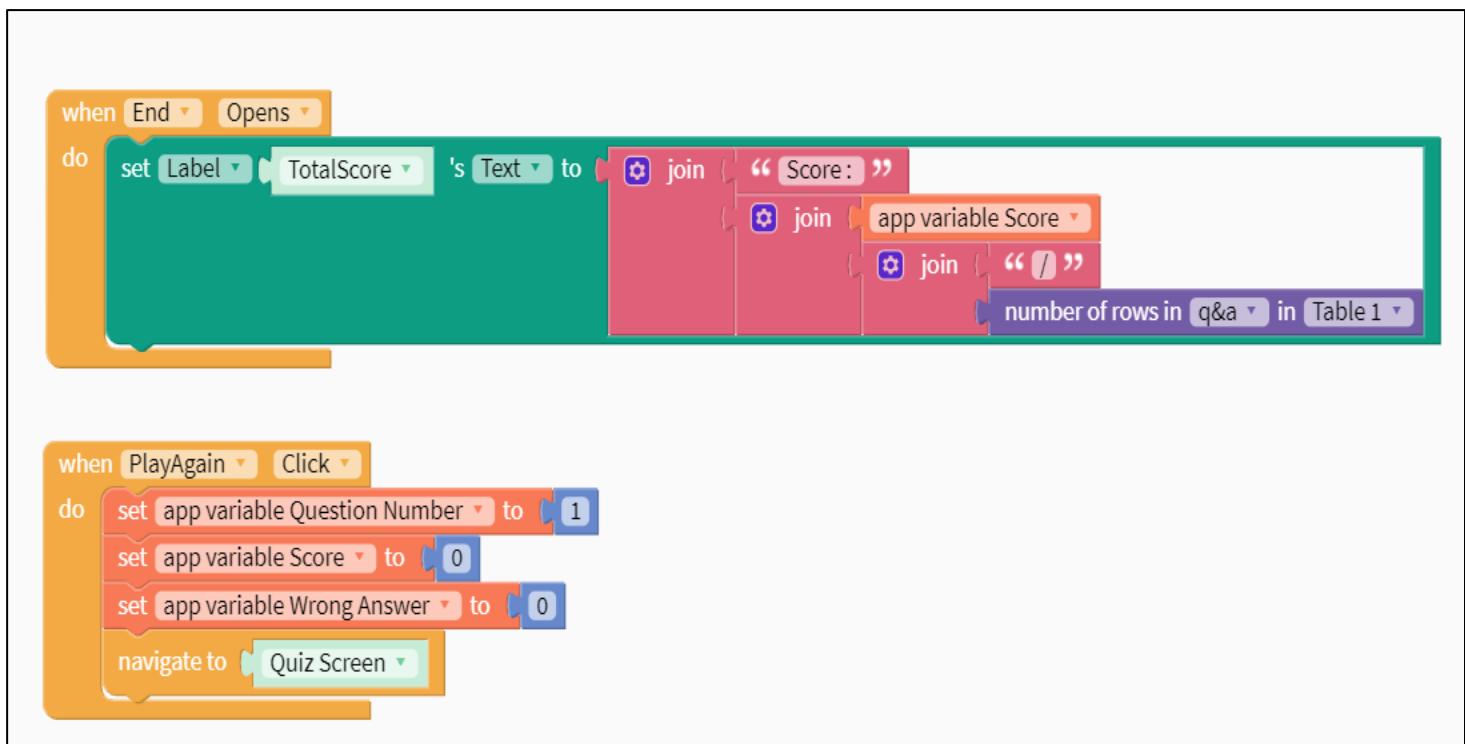


Block Screen Shots

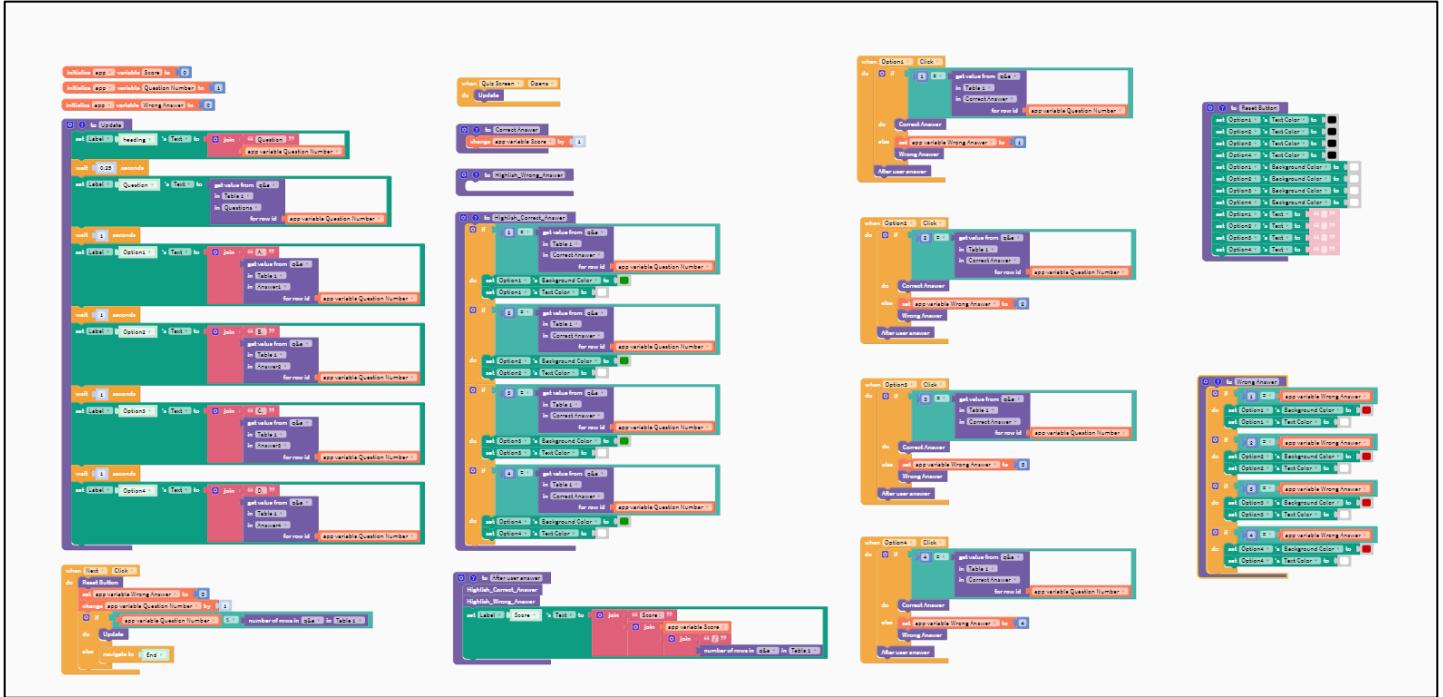
1. Splash Screen – Block



2. End Screen Block



3. Quiz Screen – Block





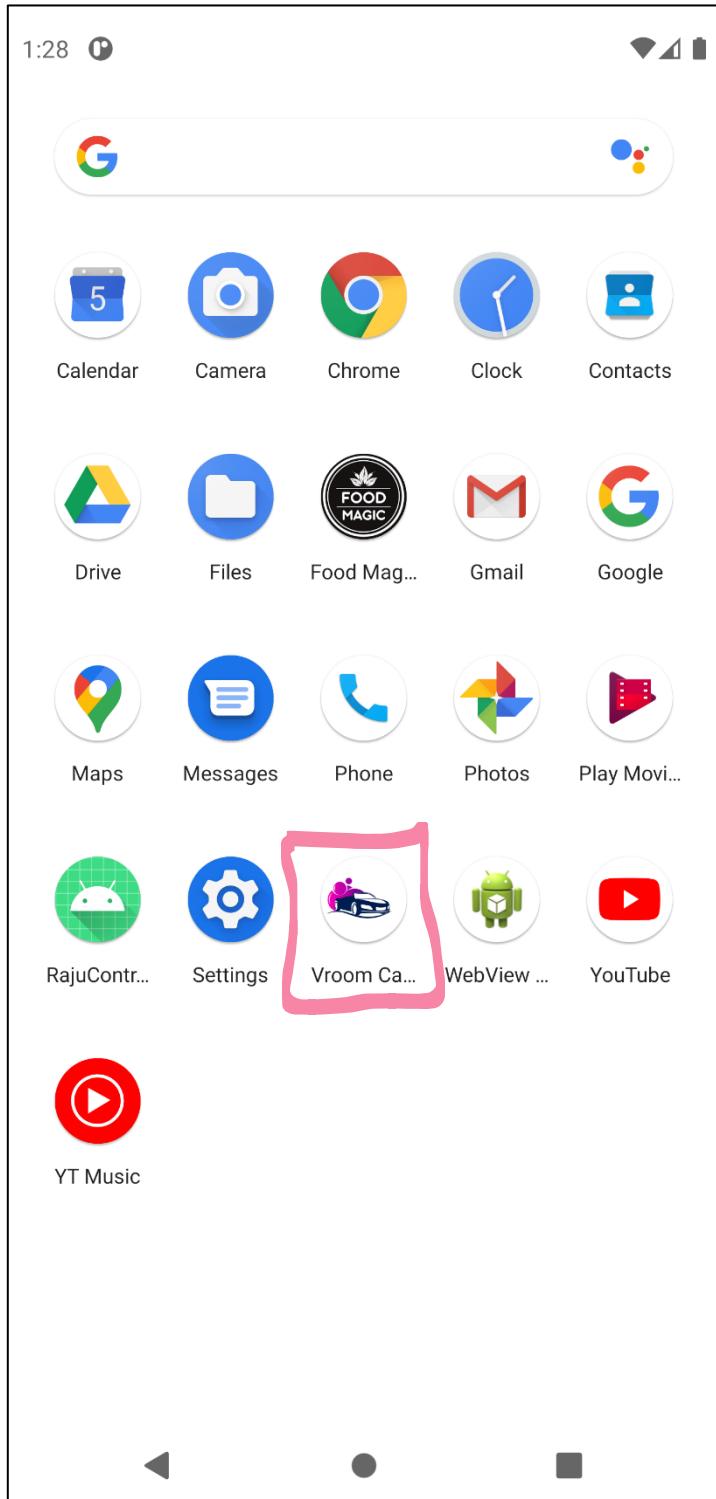
Lab 15 : Shared Preference

Name : Rajkumar B L
Reg.No : 2047120
Course : MCS 272 Mobile Application
(Lab 15 – Vroom Car Share)

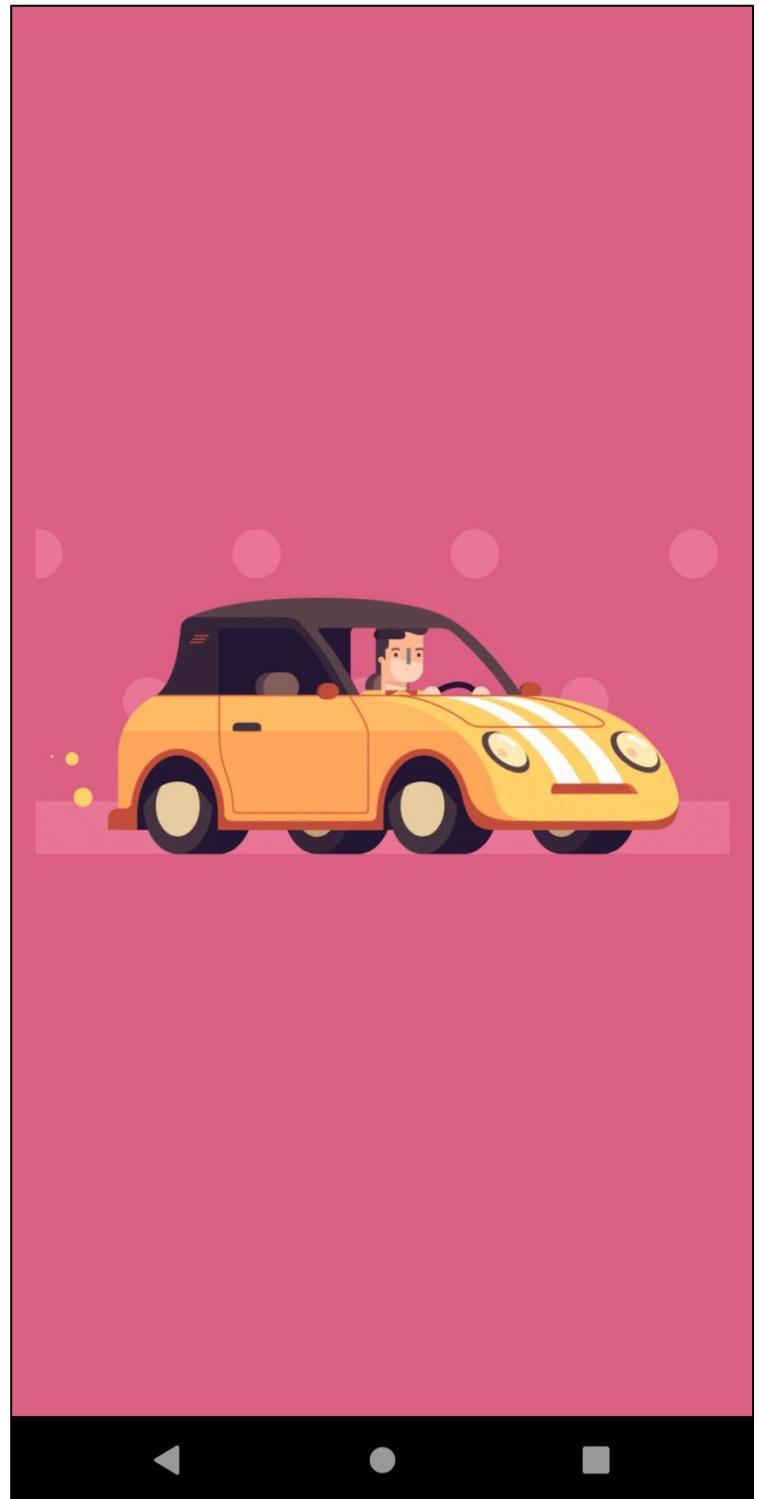


Output:

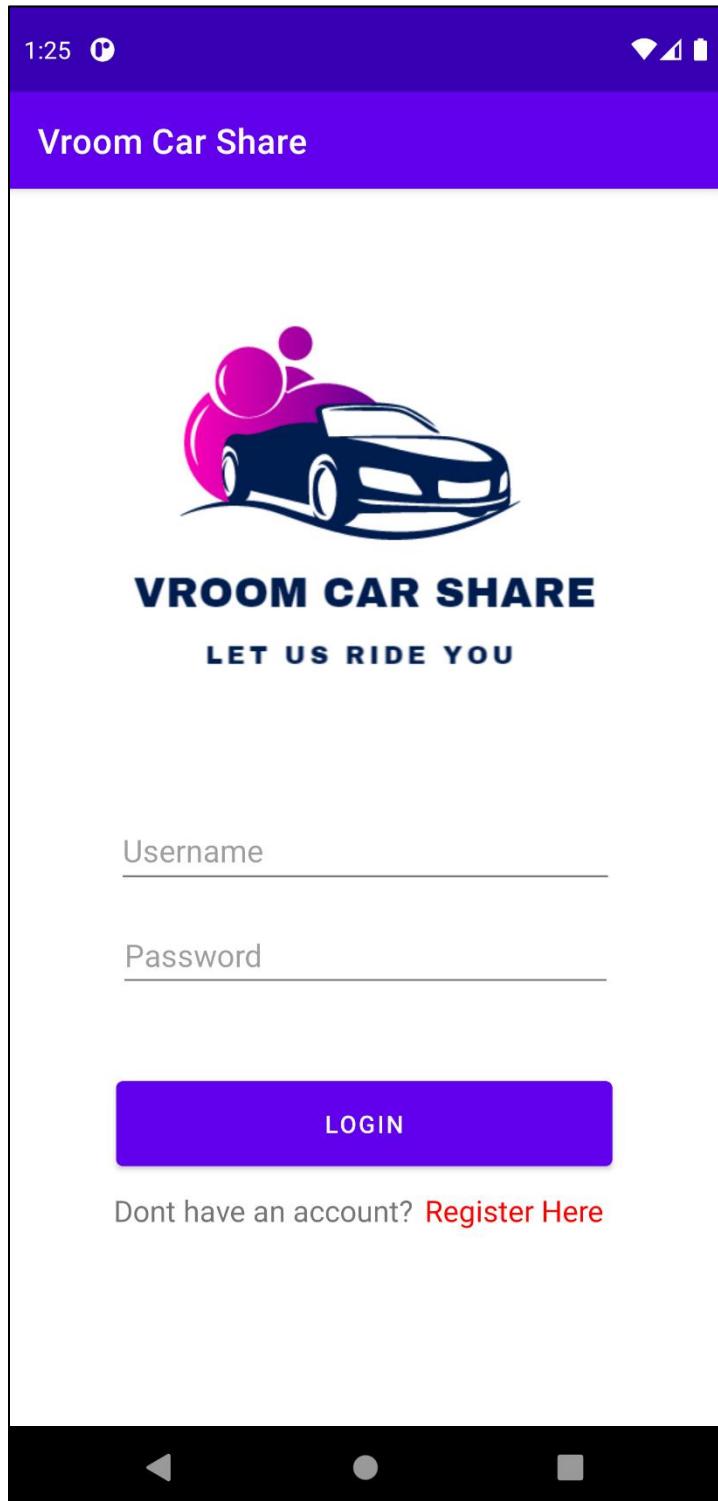
1. App Icon



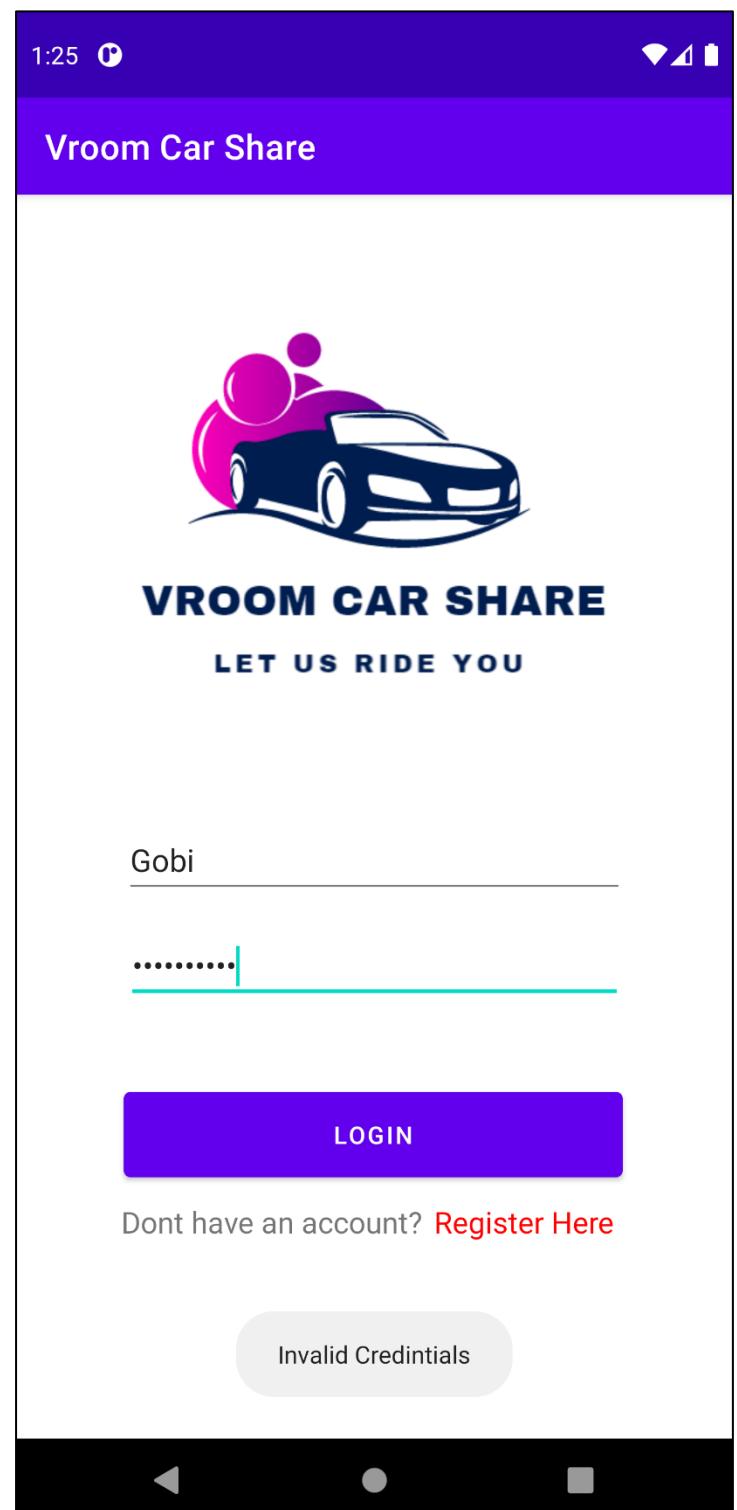
2. Splash Screen



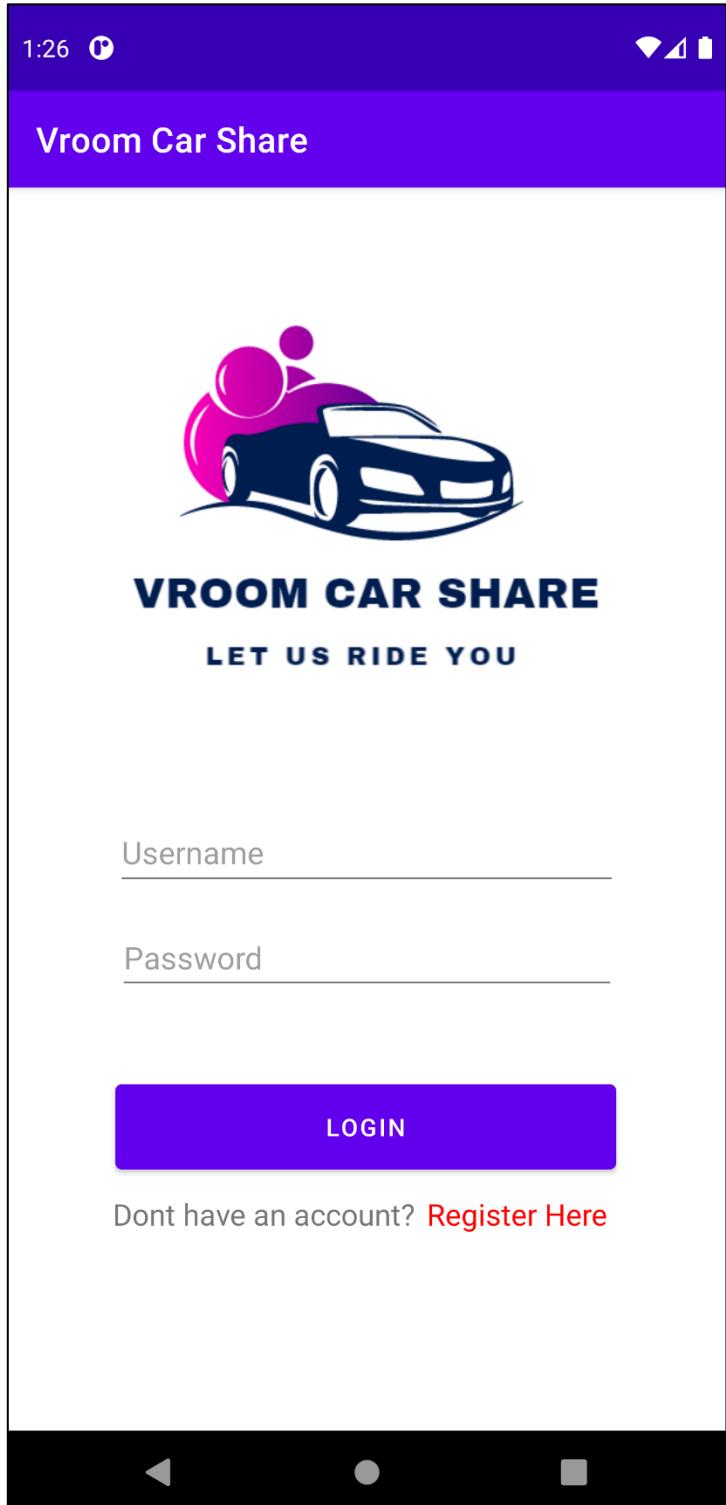
3. Welcome Screen



4. Invalid Login



9. Click on register



10. Register Form (01)

A screenshot of a registration form titled "Register Form". The form consists of several text input fields: "Firstname", "Lastname", "Email", "Phone Number", "Date Of Birth", "Driver License", "Street", and "City". Each field is preceded by its label and followed by a horizontal line for input. The background is white with a black header and footer bar.

11. Register Form (02)

Phone Number

Date Of Birth

Driver License

Street

City

State

Zipcode

CLEAR **SAVE** **FETCH**

SUBMIT



12. Register Form (Filling 01)

Register Form

Raj

Kumar

raj@crs.in

9361048881

June 27

TN4351345

SG Palya



13. Register Form (Filling 02)

9361048881

June 27

TN4351345

SG Palya

Bengaluru

KA

501005

CLEAR

SAVE

FETCH

SUBMIT

14. Data saved (Shared – Private)

9361048881

June 27

TN4351345

SG Palya

Bengaluru

KA

501005

CLEAR

SAVE

FETCH

SUBMIT
Details are saved!

15. Form Cleared

Phone Number

Date Of Birth

Driver License

Street

City

State

Zipcode

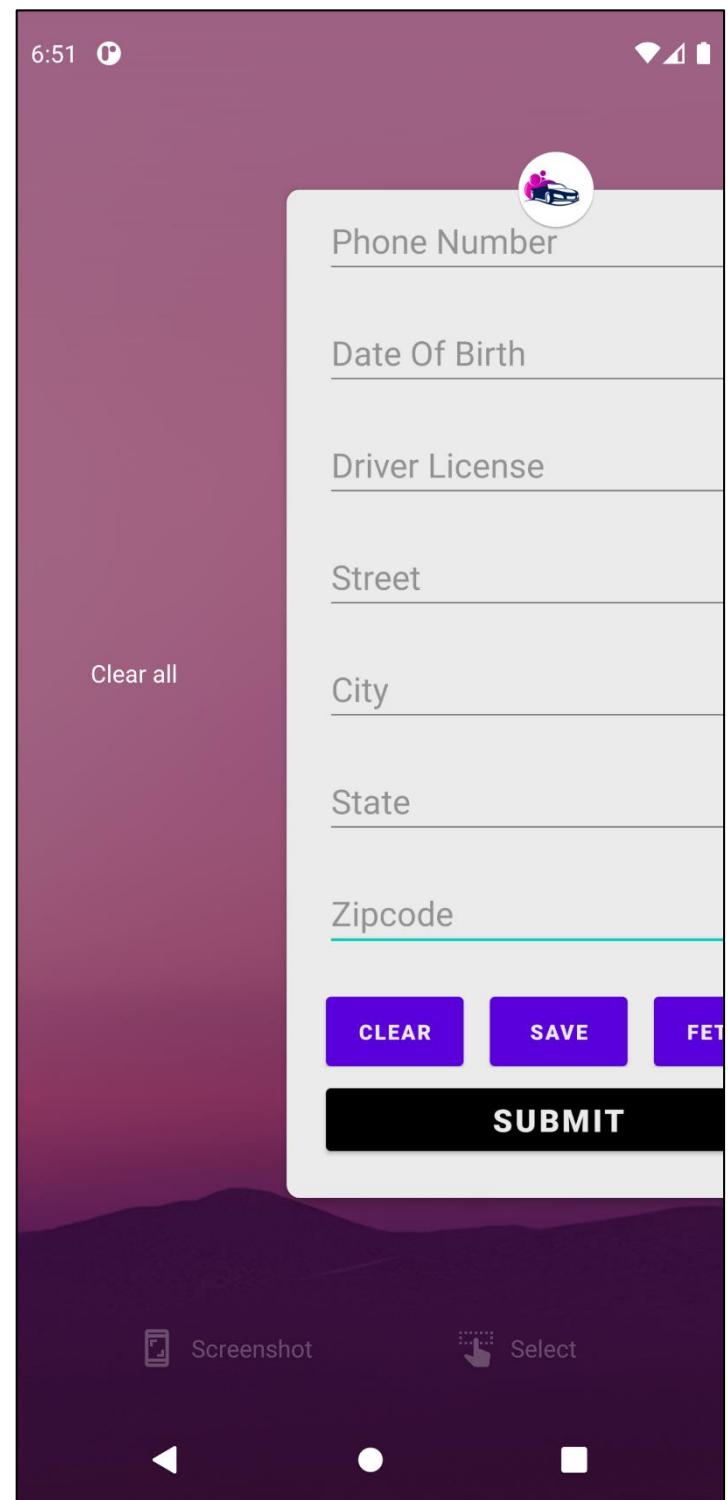
CLEAR

SAVE

FETCH

SUBMIT
Form Cleared

16. App closed



17. App Reopened

Register Form

Firstname

Lastname

Email

Phone Number

Date Of Birth

Driver License

Street

City

18. Data Retrieved - SharedPreference

9361048881

June 27

TN4351345

SG Palya

Bengaluru

KA

501005

CLEAR **SAVE** **FETCH**

SUBMIT
Data Retrieved Successfully!



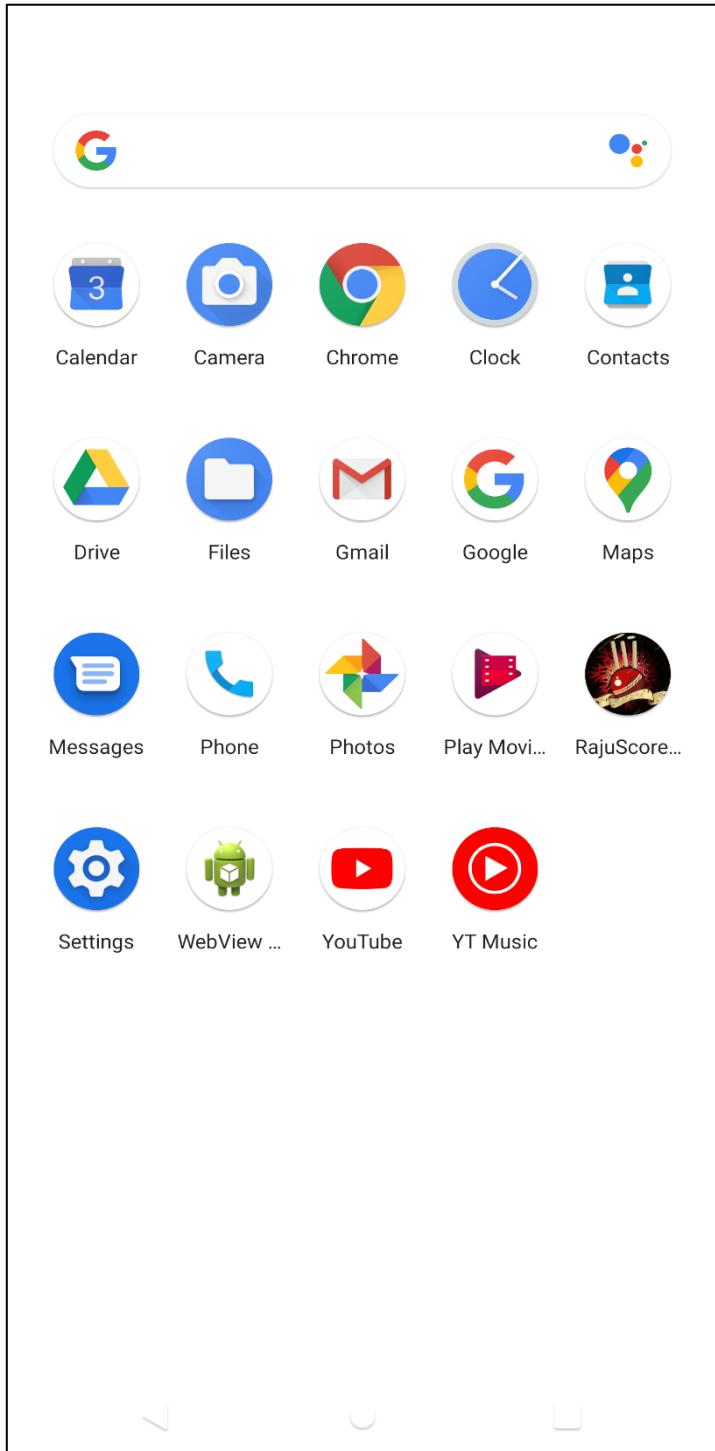
Lab 16 : Database CRUD Operations

Name : Rajkumar B L
Reg.No : 2047120
Course : MCS 272 Mobile Application
(Lab 16 – Raju Score Board)

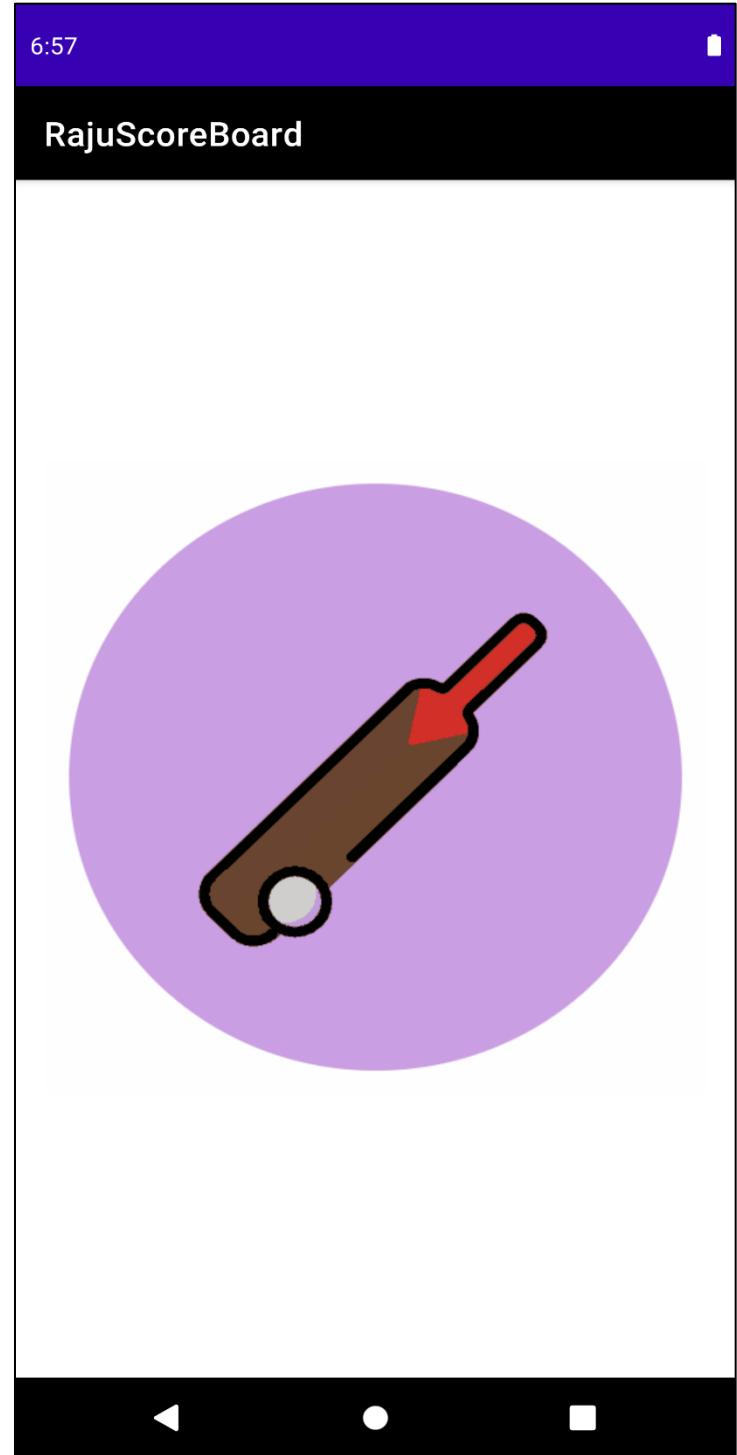


Output:

1. App Icon



2. Splash Screen



3. Welcome Screen



4. Enter the match name



Clicking on **Letsplay** option in the above screen will create the appropriate new match entry in the **matches** table of **rsb** database.

Database connection code:-

```
public class ConnectionClass {  
    String classs = "com.mysql.jdbc.Driver";  
    String url = "jdbc:mysql://192.168.0.101/rsb";  
    String un = "vroom";  
    String password = "Binod8321!";
```

Insert entry into database:-

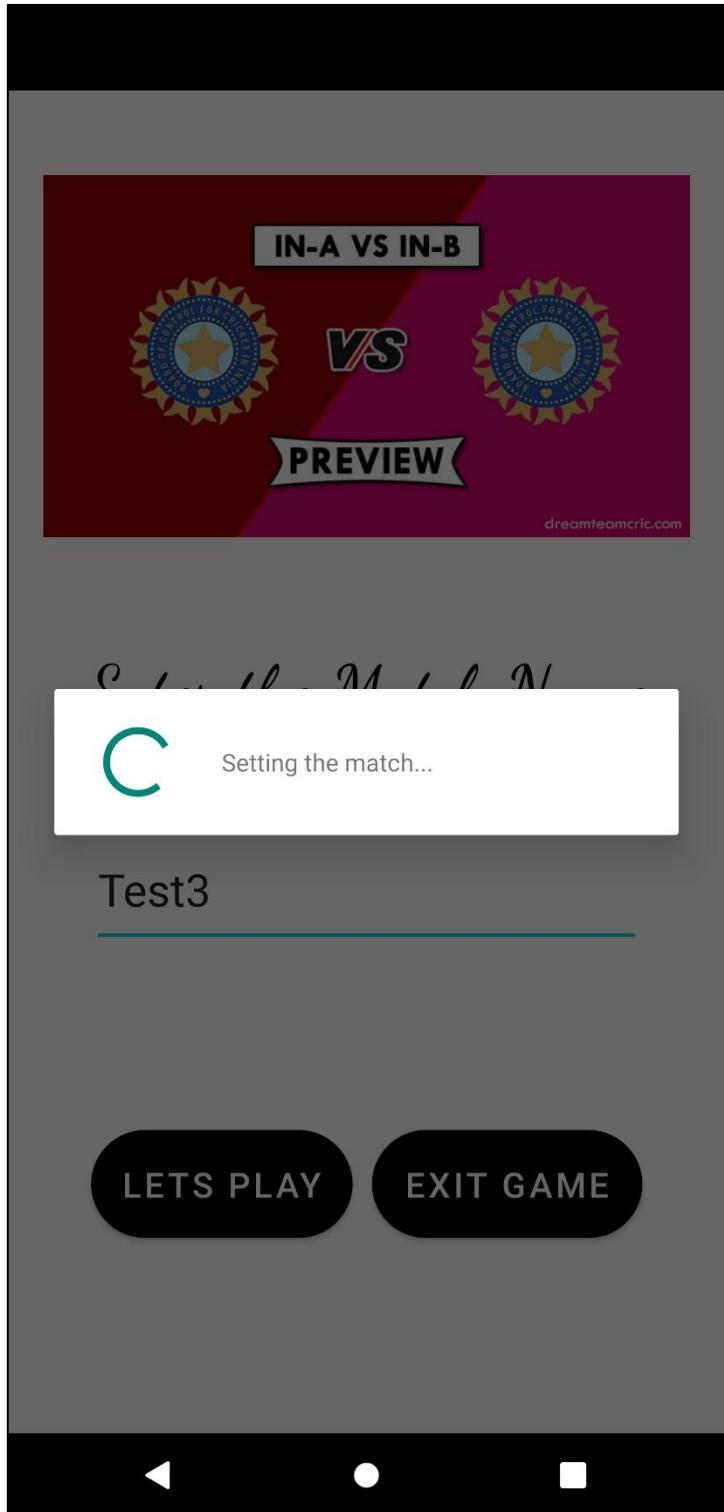
```
String mtches="select *from matches";  
ResultSet rsmtch=null;  
Statement stmttch = con.createStatement();  
rsmtch = stmttch.executeQuery(mtches);  
while(rsmtch.next()) {  
    String name = rsmtch.getString( columnLabel: "Name");  
    if(name.equals(match.getText().toString()))  
    {  
        String scrupd = "DELETE FROM matches WHERE Name=?";  
        PreparedStatement pstmtt = (PreparedStatement) con.prepareStatement(scrupd);  
        pstmtt.setString( parameterIndex: 1, name);  
        int i = pstmtt.executeUpdate();  
    }  
}
```

Database:-

The screenshot shows the MySQL Workbench interface. The top bar indicates the connection details: Server: 127.0.0.1 and Database: rsb. Below the bar, there are several tabs: Structure (selected), SQL, Search, Query, Export, and Import. A 'Filters' button is also present. In the main area, there is a search field labeled 'Containing the word:' followed by a text input box. Below this, a table listing is shown with columns 'Table' and 'Action'. Two tables are listed: 'matches' and 'players'. Each table row includes a checkbox, a star icon, and buttons for 'Browse', 'Structure', 'Search', 'Insert', 'Empty', and 'Drop'. At the bottom of the table listing, it says '2 tables' and 'Sum'.

Table	Action
<input type="checkbox"/> matches	★ Browse Structure Search Insert Empty Drop
<input type="checkbox"/> players	★ Browse Structure Search Insert Empty Drop

5. Fetching details from database



6. Setup match "Test3"

+ Options	
Name	Score
test2	15
test1	0
Test3	0

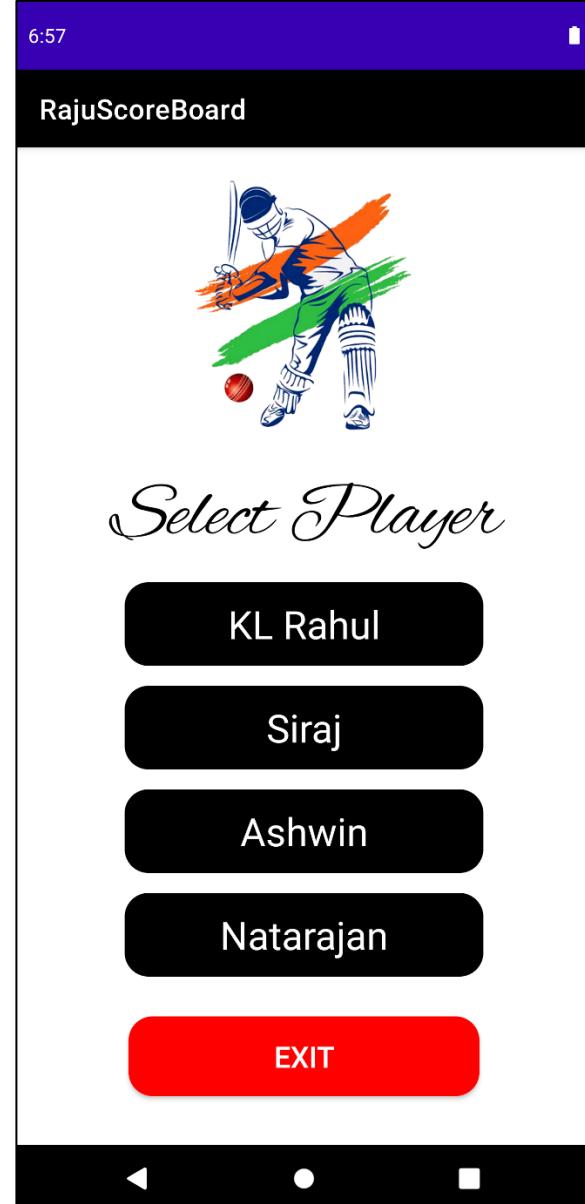
7. Fetch Player Details

+ Options	
Name	Available
Rohit Sharma	1
Submhan Gill	0
Virat Kholi	1
Krunal Pandya	1
Hardik Pandya	1
Suryakumar	1
KL Rahul	1
Siraj	1
Ashwin	1
Natarajan	1

8. Player List - 01



9. Player List - 02



```
String query="select *from players where Available='"+avail+"'";  
ResultSet rs=null;  
Statement stmt = con.createStatement();  
rs = stmt.executeQuery(query);  
while(rs.next()) {  
    String name = rs.getString( columnLabel: "Name");|  
    DB_Support.addplayers(name);  
}  
z = "Match Setup successfull";  
isSuccess=true;
```

10. Player 1 Score Board - 01



11. Player 1 Score Board - 02



Clicking on **Hit me** option will randomly generate a score from (wicket,run1,run2,run3,run4,run6) and appropriate action like updating team score, updating player score and updating match score in the database will be triggered.

Update score in the database code:-

```
String scrupd = "update matches set Score=? where Name=?";  
PreparedStatement pstmt = (PreparedStatement) con.prepareStatement(scrupd);  
pstmt.setInt( parameterIndex: 1, score);  
pstmt.setString( parameterIndex: 2, DB_Support.getMtchName());  
int i = pstmt.executeUpdate();
```

12. Player 1 Score Board - 03



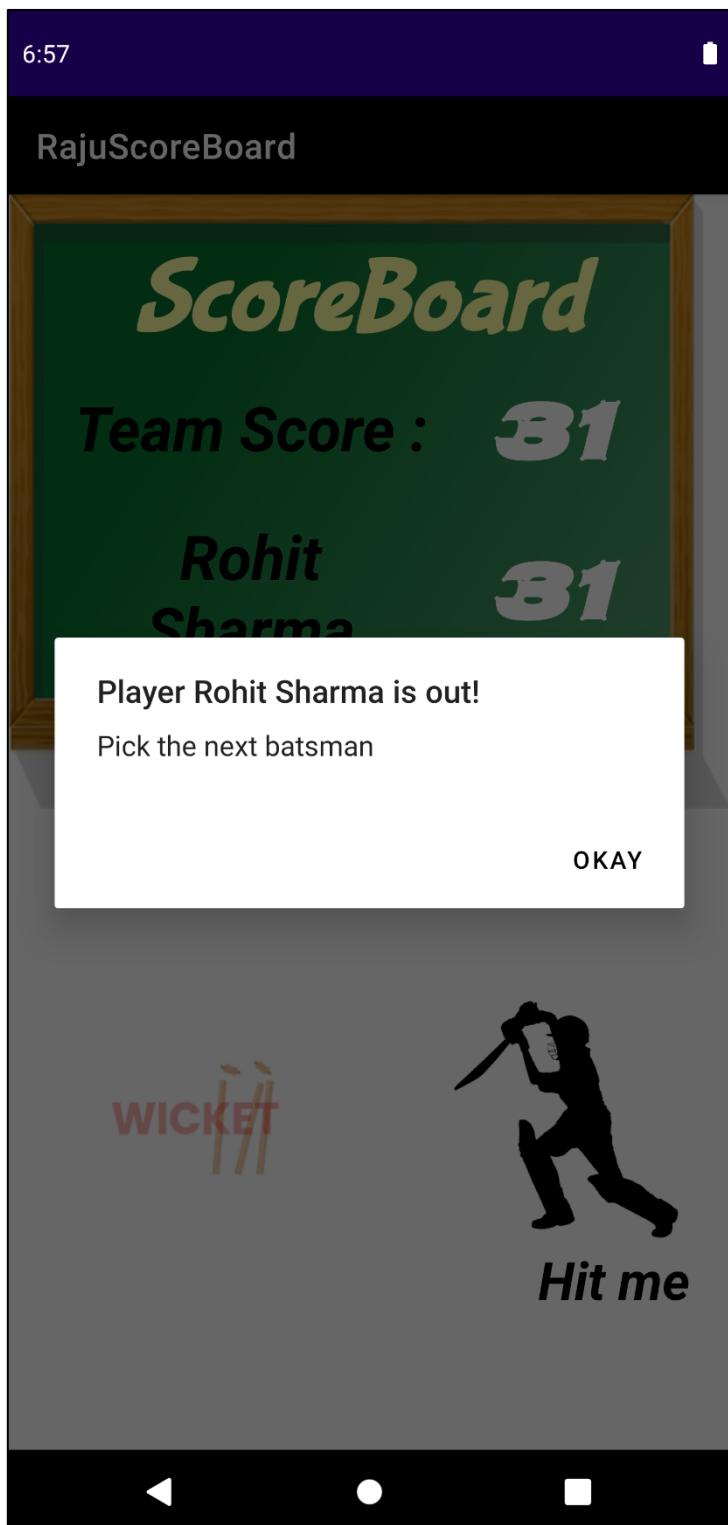
13. Score Reflection in the table:-

+ Options	
Name	Score
test2	15
test1	0
Test3	4

↓

+ Options	
Name	Score
test2	15
test1	0
Test3	5

14. Player 1 Score Board - 04

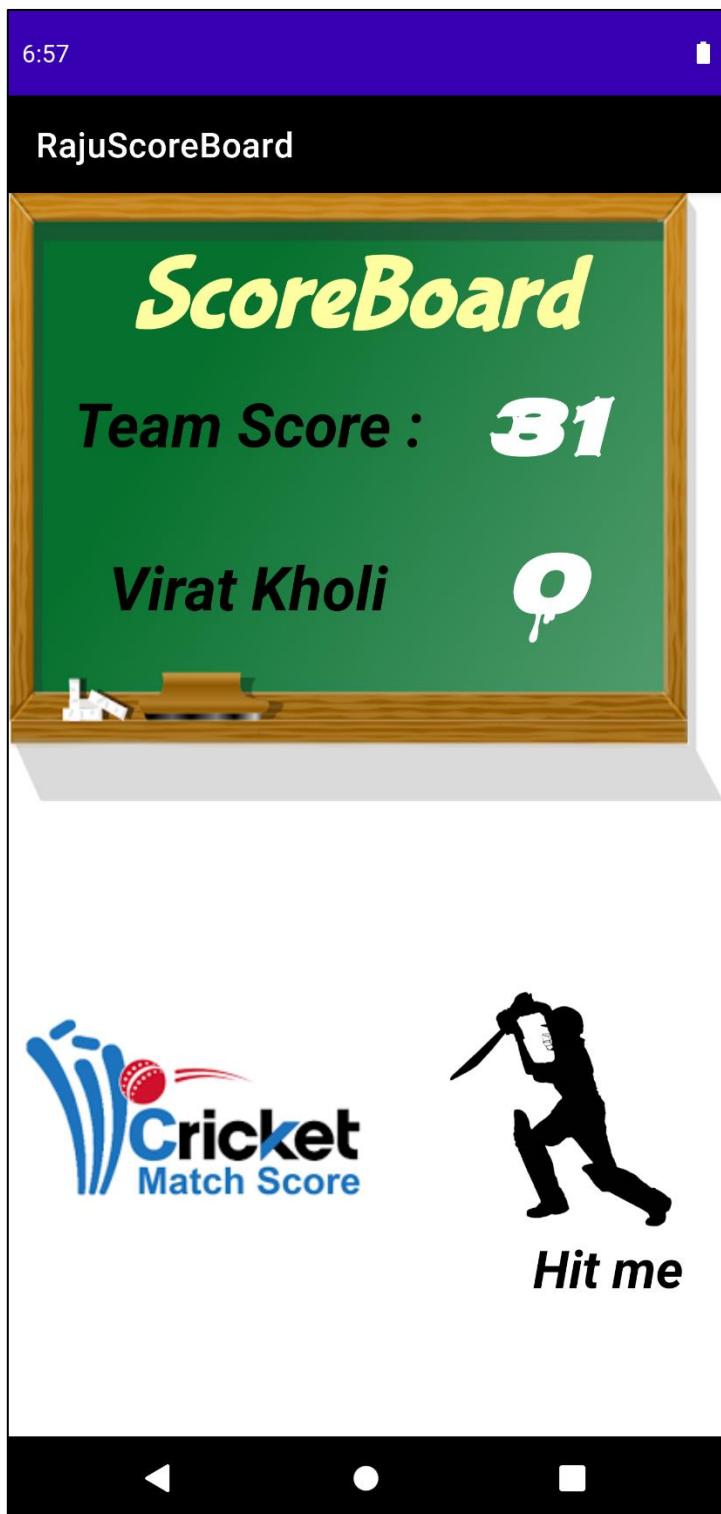


15. Choosing next batsman



Clicking on **Okay** option will take back to the updated player list where the user can select the next batsman.

16. Player 2 Score Board - 01



17. Player 2 Score Board - 02

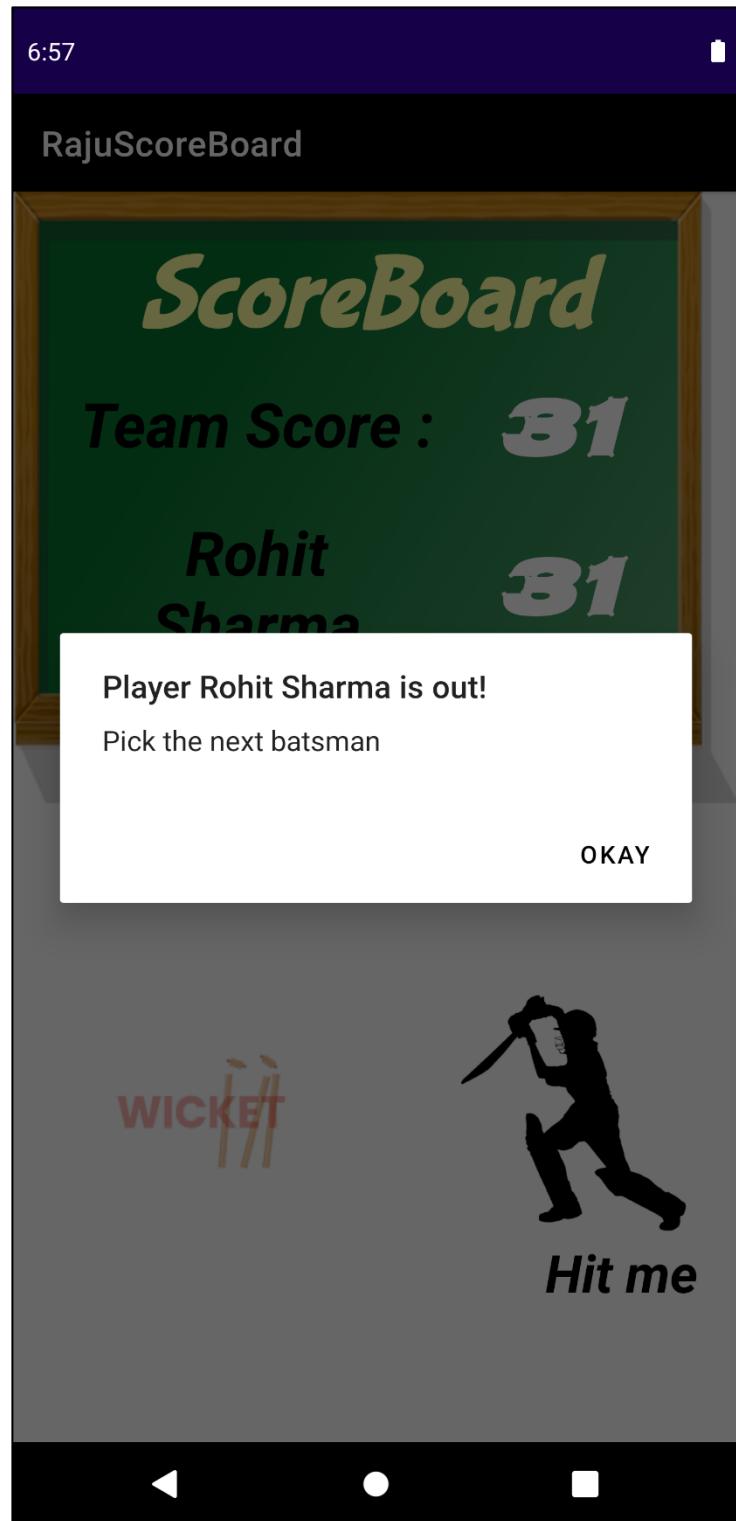


Here the team score is carried from the previous batsman and new score is set for the new batsman and updated accordingly.

18. Player 2 Score Board - 03



19. Player 2 Score Board - 04

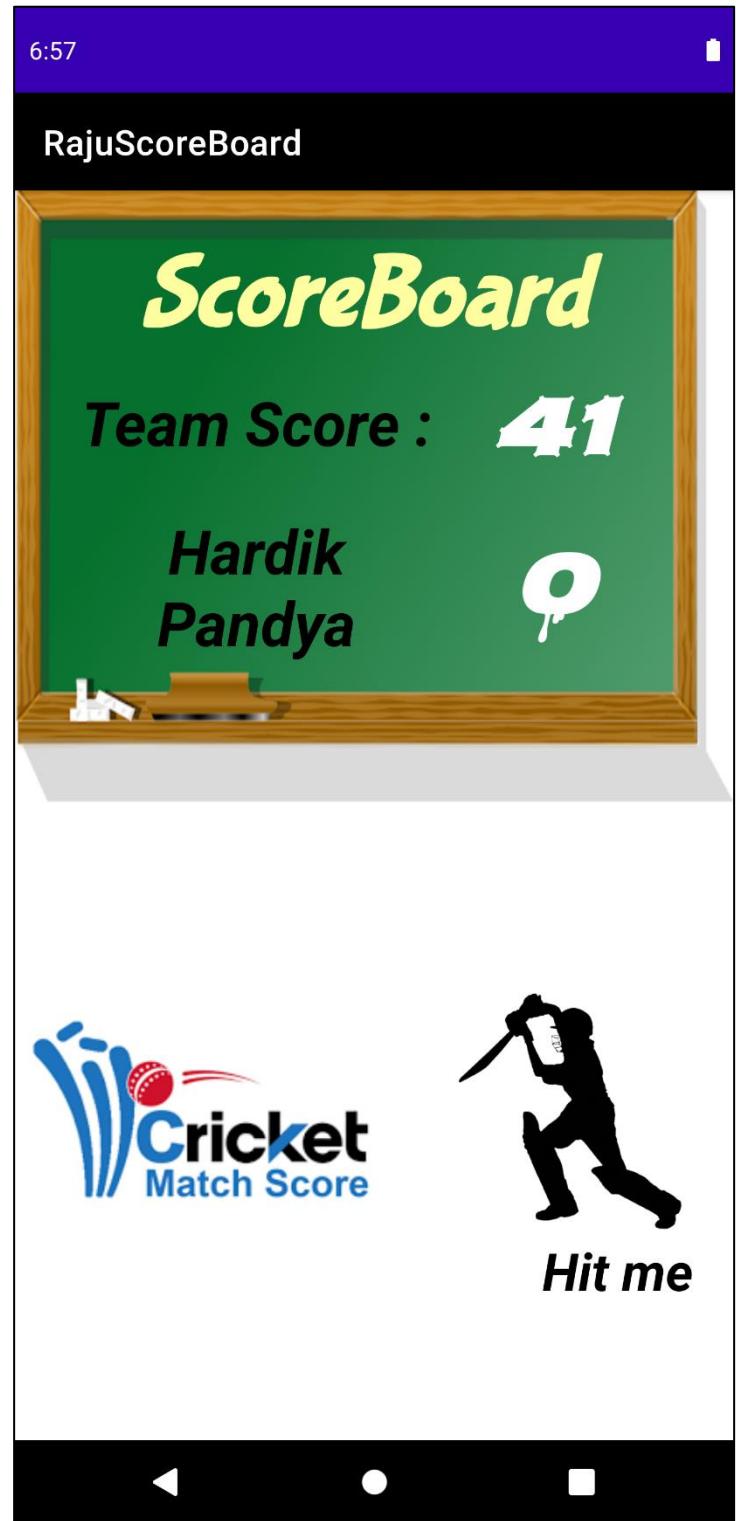


Clicking on **Okay** option will take back to the updated player list where the user can select the next batsman and this procedure follows until all players get out.

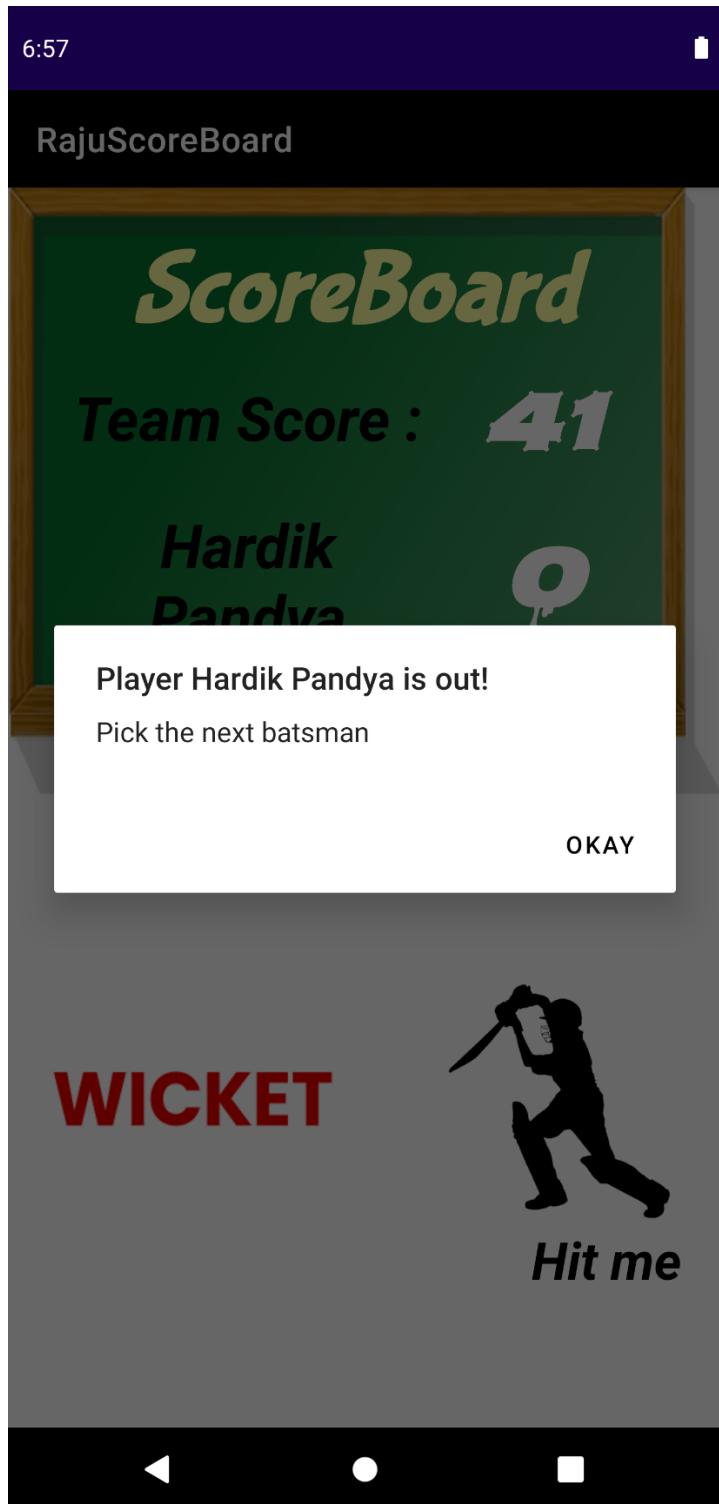
20. Selecting n-th batsman



21. Player n Score Board - 01



22. Player n Score Board - 02



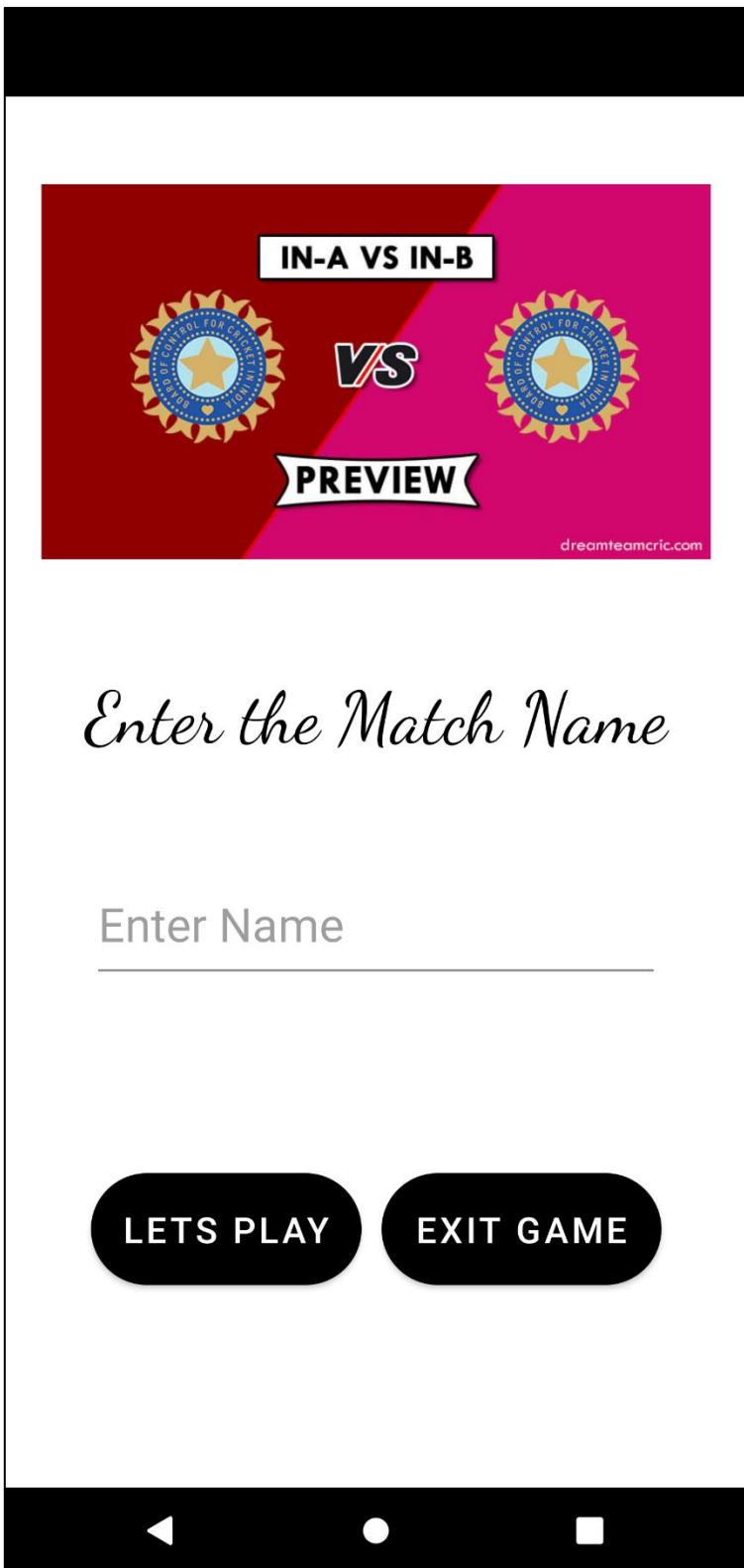
+ Options	
Name	Score
test2	15
test1	0
Test3	41

The pic to the left shows the updation of match score after player n ending his batting. Exit from the player list activity after all players have been outed and also exit from the game.

23. Exit after all players are out



24. Exit the game or start a new match



All necessary coding and video documents needed for this lab has been attached below for reference.