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ANDROID

. **Android Application Development Internship** .

PROJECT REPORT

Minor Project

Simple Calculator

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Summary

I have designed a Simple Calculator Application for the Minor Project of my Android Application Development Internship at Corizo. The Project Task stated that -

Design a Simple calculator having 0 to 9 buttons and + - * / and mode % to calculate that data in android.

INTRODUCTION

PROJECT OVERVIEW

In the Project Overview Section of this report, I have briefly explained about all the details about the Simple Calculator Application Project. I have mentioned about the platform used for developing the application, the Front End and Back End Languages and Technologies and the Database used.

METHODOLOGY

In the Methodology Section of this report, I have mentioned about the activities of the application in detail. I have discussed about the Java Class Files and Layout Resource Files and how they are in a workflow using codes.

DEMONSTRATION

In the Demonstration Section of my report, I have demonstrated the working procedure of my application from a User's point of view. I have explained all the necessary points that are to be followed while using the application. I have provided screenshots of the app for better understanding.

Figure 1

Project Overview

- **Project Name:** MyCalc

- **Project Description:** A Simple Calculator with 0-9 buttons and +,-,*,/,% operations

- **Project Type:** A Minor Project for Android Mobiles and Tablets

- **Project Repository Link:**
  https://gitlab.com/sohamray.compscengineering/simple-calculator-android-app

- **Platform used for build the Project:** Android Studio

- **Front End of the Application made by:** XML

- **Back End of the Application made by:** Java

- **Database used in the Application:** No Database used

- **Size of the Application:** 4.52 MB

- **Available in Google Play Store ? :** No

This project is solely done by Soham Ray from Kolkata, West Bengal as the Minor Project in the Android Application Development Internship at Corizo.

Date: 3rd July, 2023

SOHAM RAY
Android Developer Intern

Methodology

I have used the Android Studio Platform to build the project. After starting the new project named "MyCalc" I created two files for designing the Front End and Back End of the application respectively.

I have created a layout resource file named "calculator.xml" in the layout folder under res for designing the front end of the application. I have written the XML code in a Relative Layout. I have assigned specific ids to each of the elements which is used in the Java class for referencing those particular elements.

After completing the Front-End layout resource file, I created a Java class named "Calculator.java" in the specific package for writing the Back End of the application in Java Programming Language. I have established the connection between the front end and back end of the application in this file. There is total 17 buttons (0-9 , operations +,-,*,/,% , a calculate button and a erase button) in the application. There is a EditText area for writing the calculations and a TextView for showing the results.
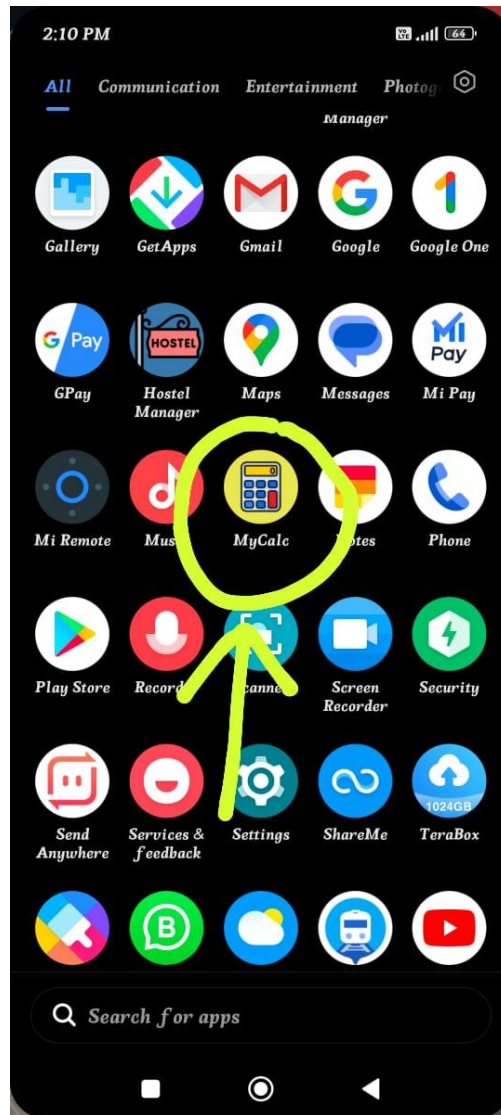
No database has been used in this application as it was not necessary.

Finally, I have mentioned the activities in Android Manifest File and incorporated the intent filter in the activity which will be opened first.
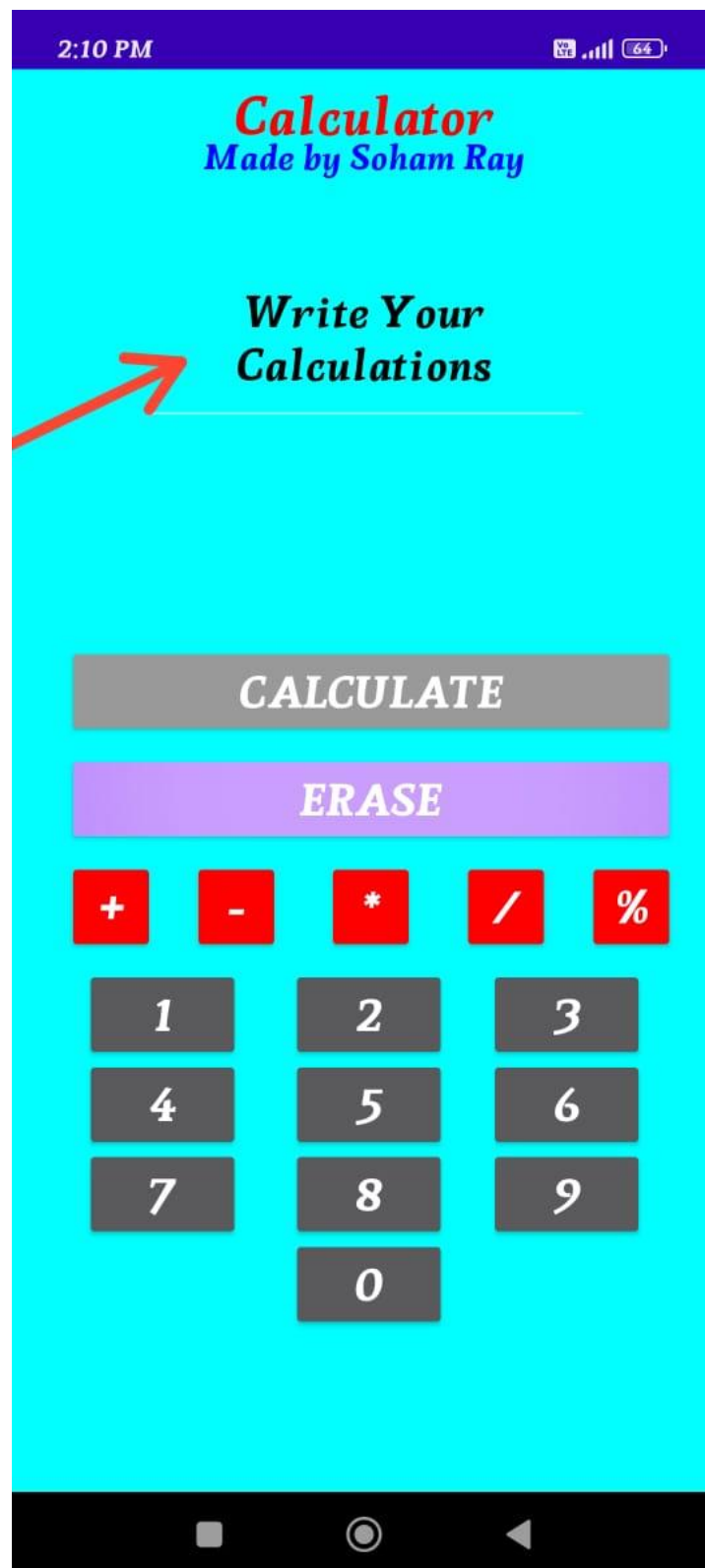
The complete code for this project is available in the repository of my GitLab for which I have already provided the link.
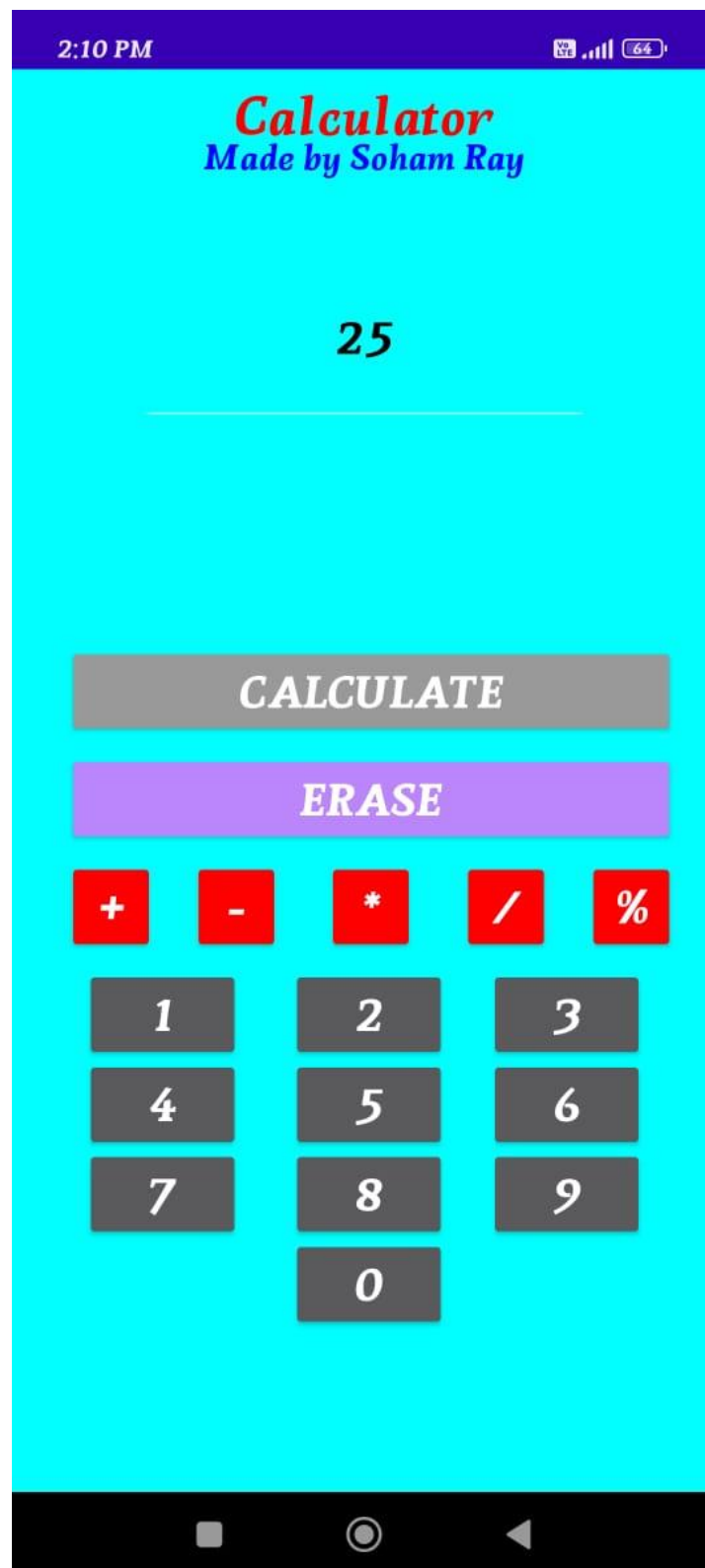
Demonstration

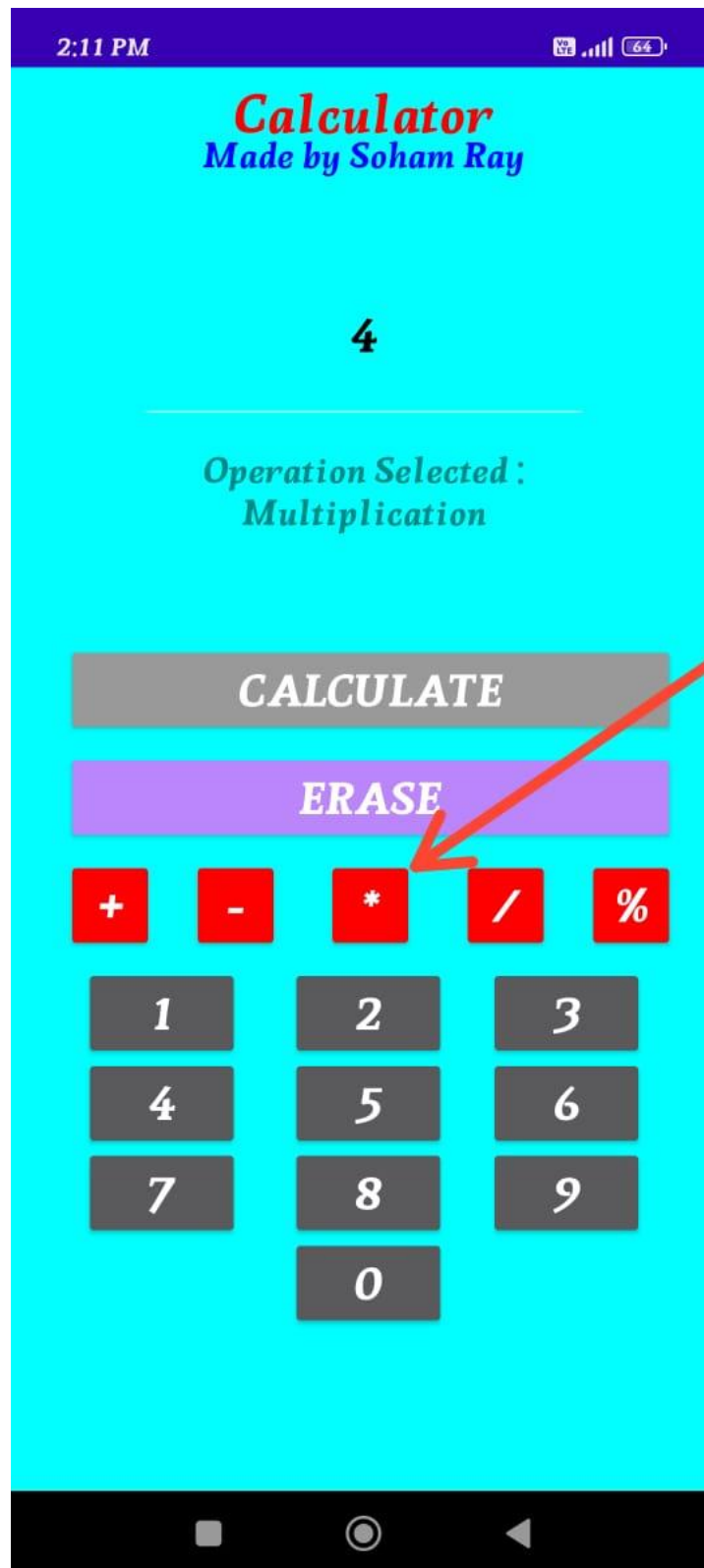Here I am showing a brief demonstration of my application with screenshots.

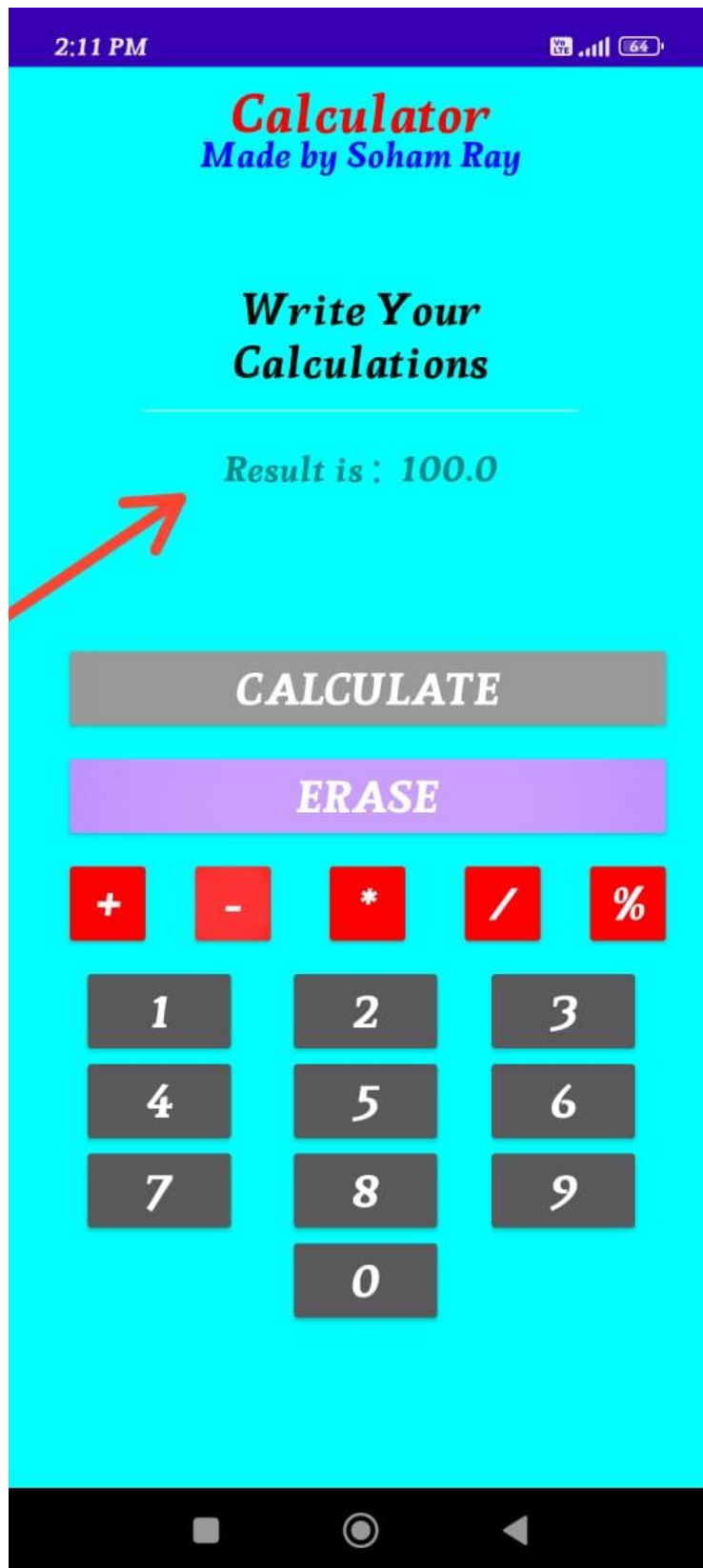After successful installation open the "MyCalc" from Application menu

This is the interface of the Calculator, you can use the buttons for typing calculations and that will be typed in the marked area

Lets say we have typed 25 using the buttons and it is shown in the corresponding area

Suppose we want to do 25*4 , then after writing 25, we press the multiplication button as marked and then enter 4 using button. Everything is shown in corresponding places

Now after pressing the 'Calculate' button, you can see the result as marked.
To clear everything, press the 'Erase' Button