ICP-8

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GitHub Link:
https://github.com/TejdeepP/WebProgrammingSpring2022/tree/main/MobilePart/ICP8

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Introduction

Mobile app development has increased Accessibility, Global Customer Usage, Brand value, social platform, Payments easier & Time usage. Every individual doesn't open a system and access applications on Web. Now the change in generations and the technology has rapidly grown where people use everything on mobile and 99% of tasks can be done on mobile, which is where the trend has drastically changed the mobile evaluation and there comes the competitors like Android, IOS etc as the leading marketers.

Android studio – It's a tool where we can perform the app development.

Android software development is the process to create the applications

for the devices that run on the android OS(operating system). We can use any language for the development such as Java, Kotlin, C++ using the Android development kit. Android is the most used OS in the world as most of the cell phones work with android and creating an app is easy compared to any other apps and also it is user friendly. We are using the android studio for creating the application for the ICP8.

Tasks

We need to create a Project where we give the name of the app and then we have to create a login page for the app where it should have the two text input fields for the username and password and also a button when clicked it should redirect to a new page and say you are successfully logged in and the page should have the logout page when it is clicked it should be redirected to the login page.
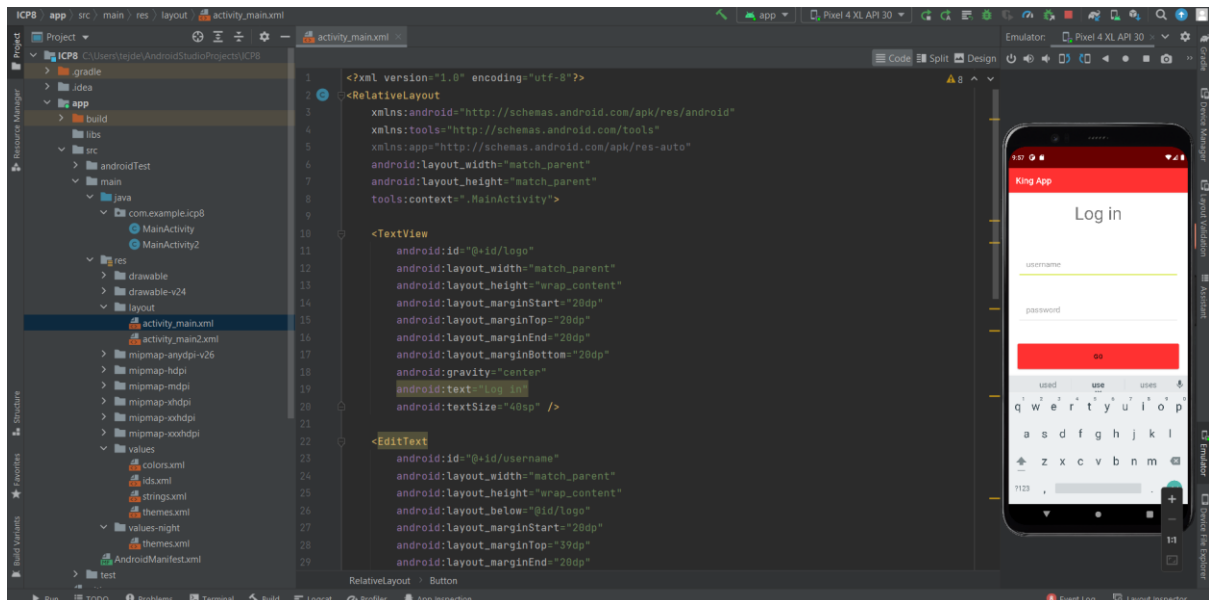
Layout:

We have used the Relative layout which can eliminate nesting. The layout is kept in layout folder as shown below:

a. Activity main.xml –android :text as Login-(id as Logo) , Username , Password and Go

b.Activitymain2.xml – android :text as Contains logout(android id as:logout)

android:id for welcome text

a).Output
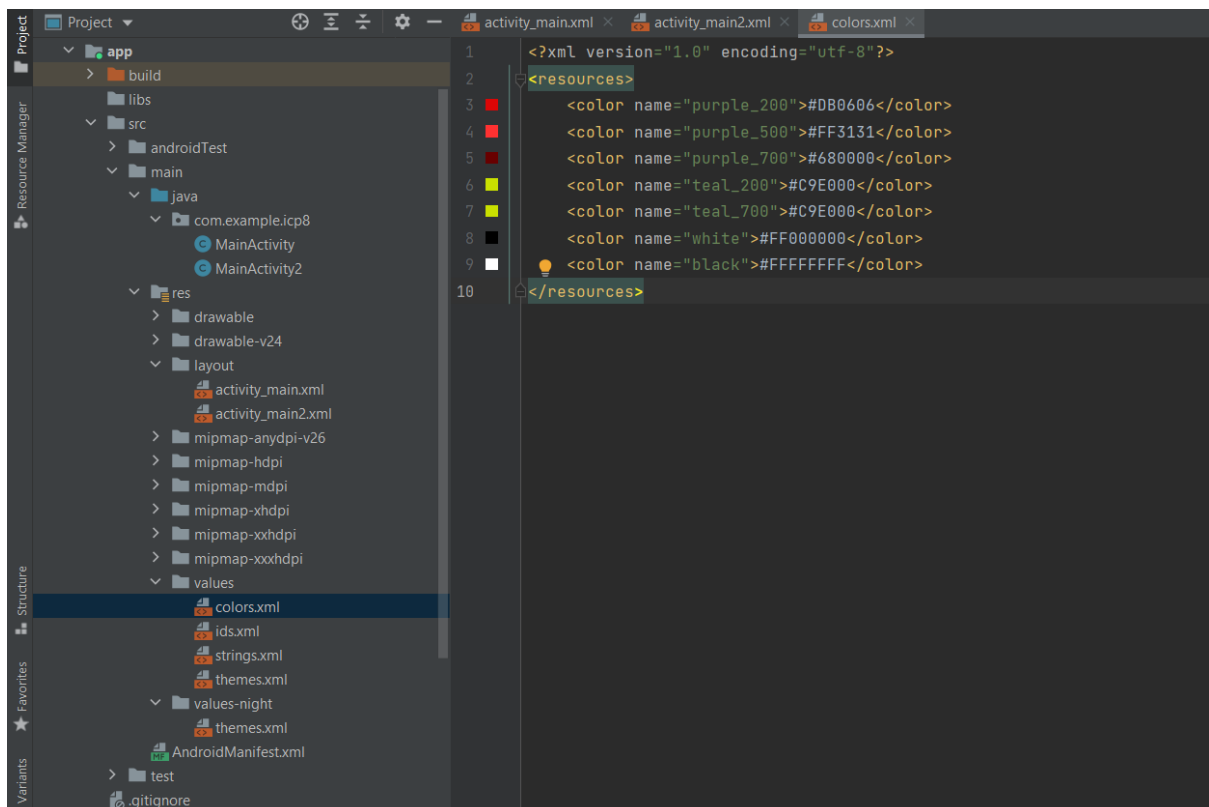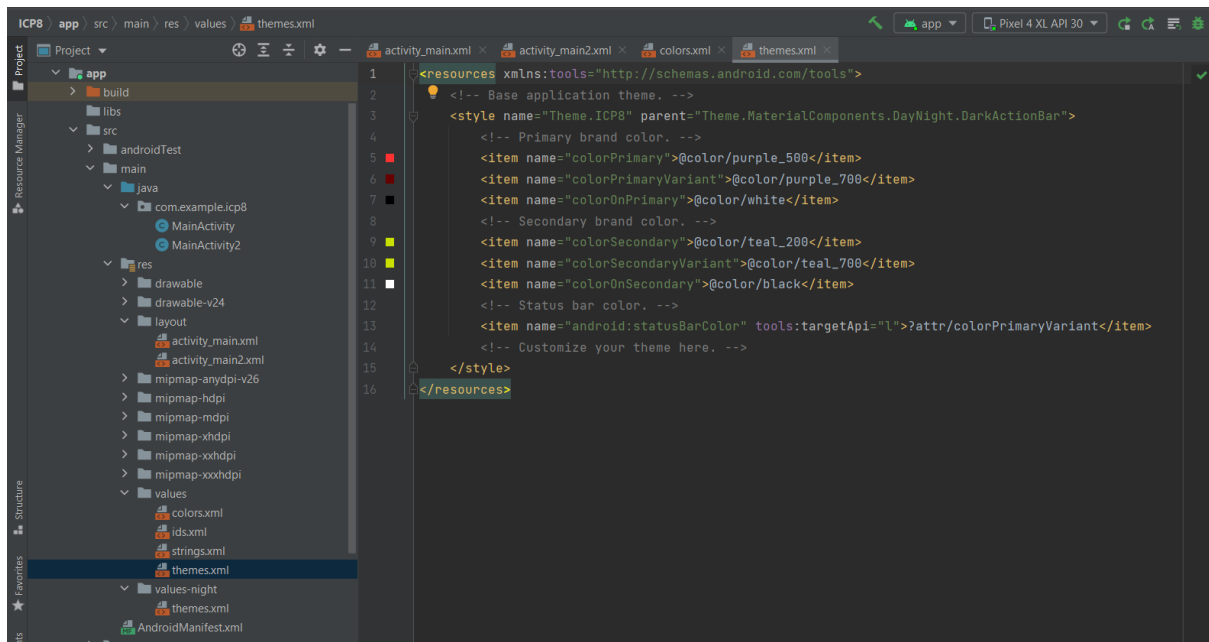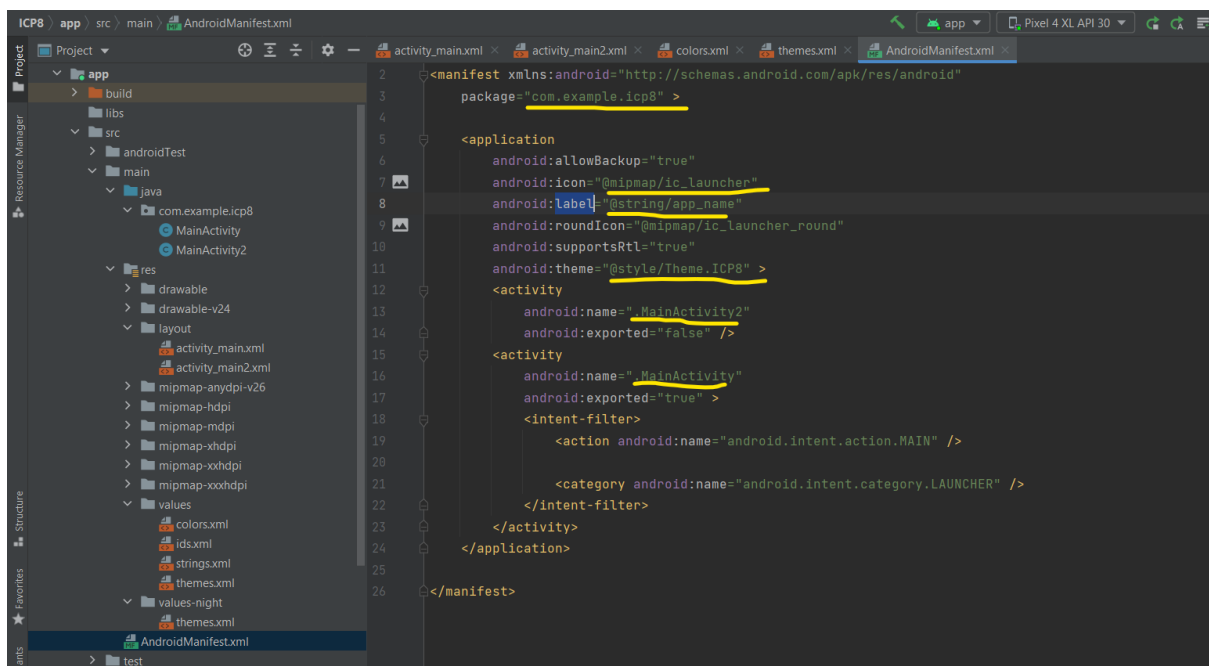
b).Output
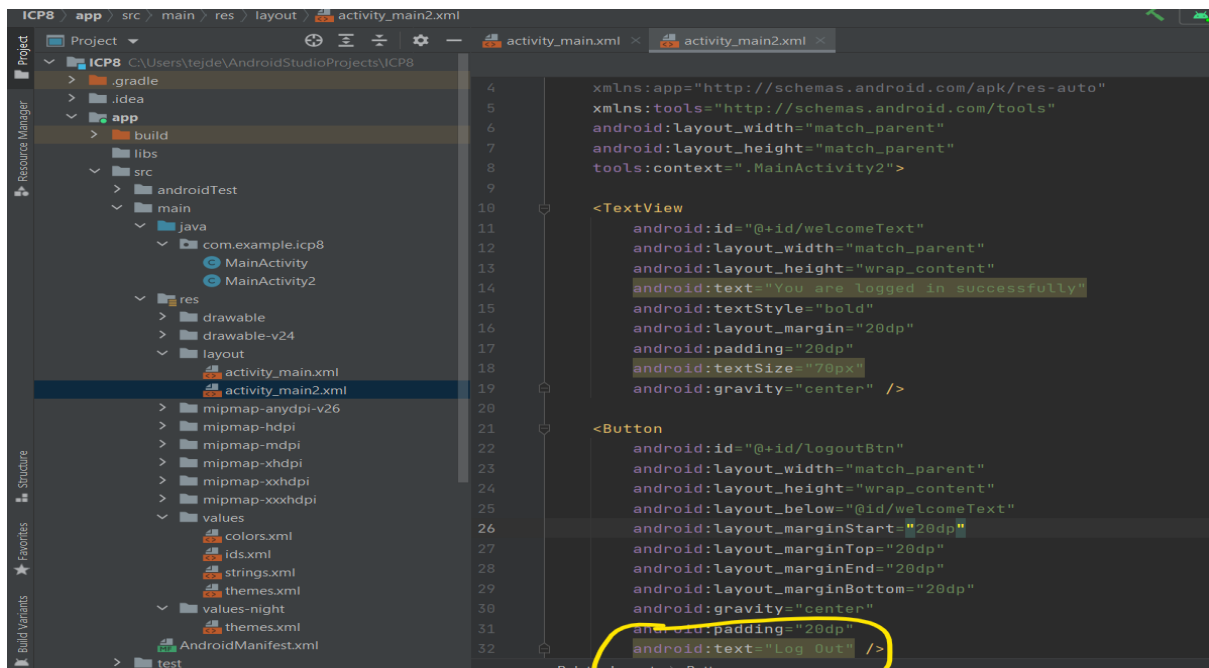
Color combinations:

The colors are defined initially as purple and teal and we have changed them to new color codes in the colors.xml file and themes.xml
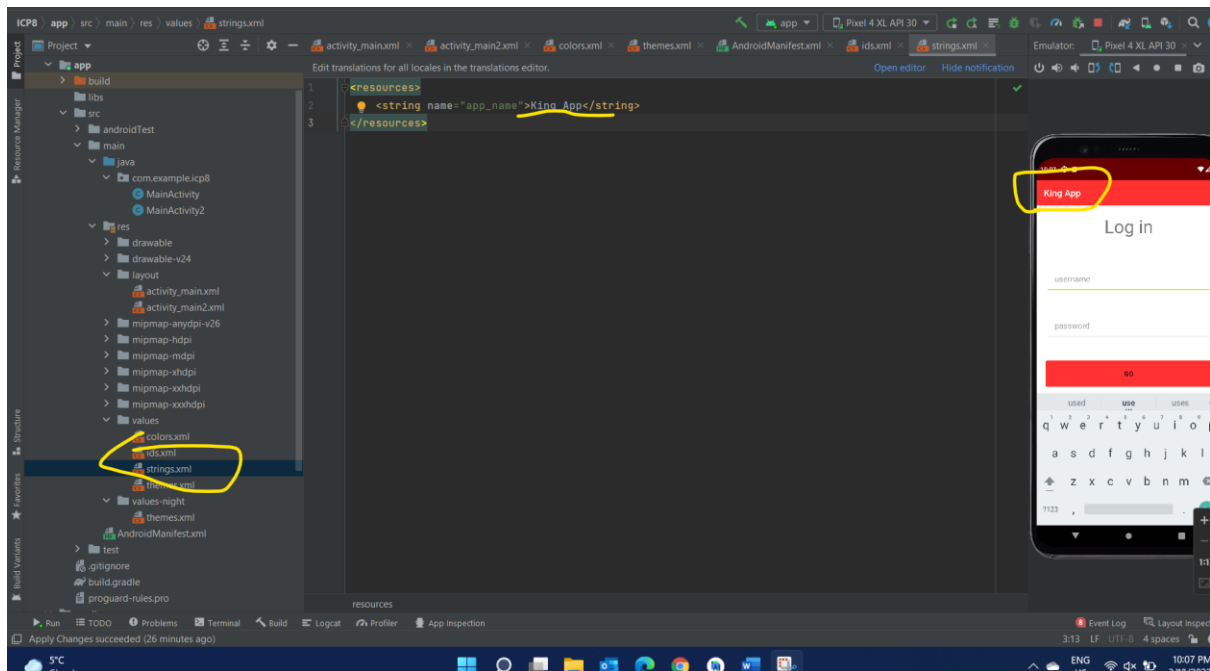
The heart of an android app comes with Androidappmanifest.xml where we define everything like permissions, label , file names, project names etc.

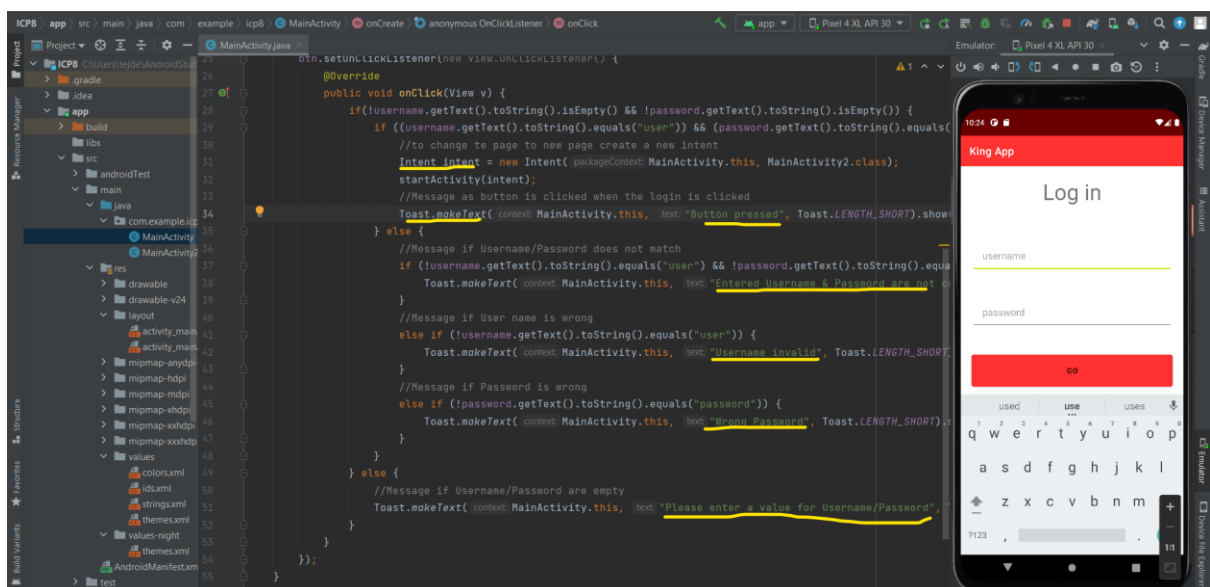Strings.xml – Here we have given the app name and is used in manifest.xml

The logic for this app is written in MainActivity.java and MainActivity2.java files
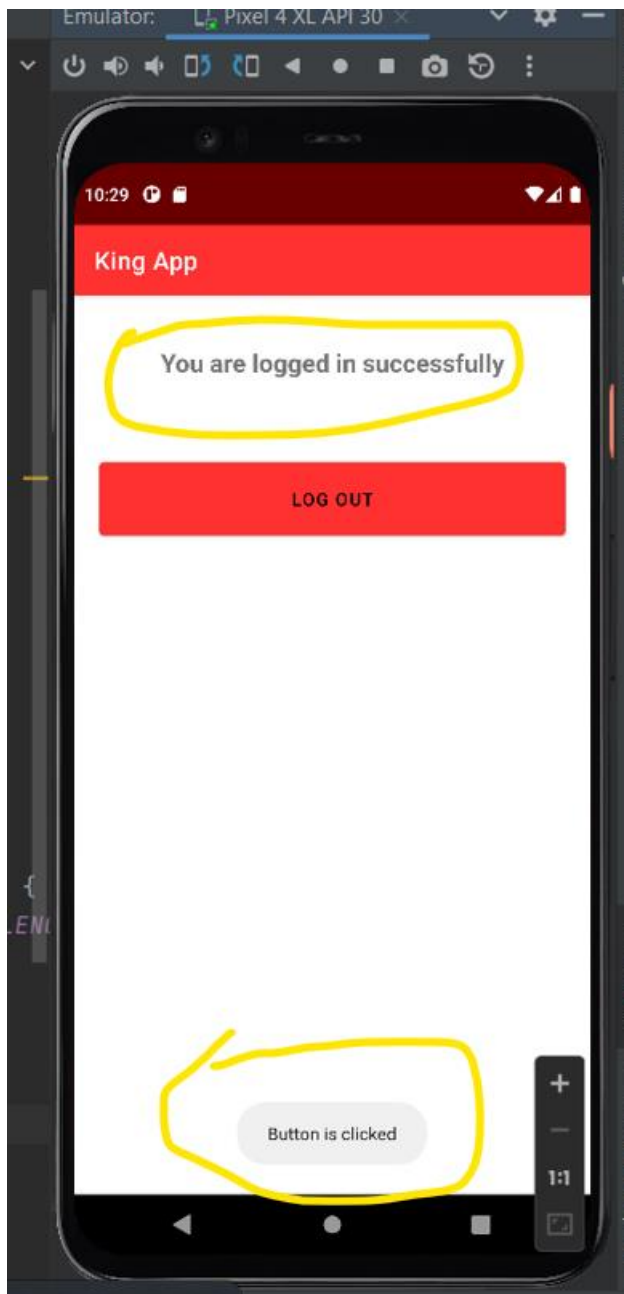
MainActivity.java ->

Intent is used to perform an action on the screen. Toast is used to show message on the screen.
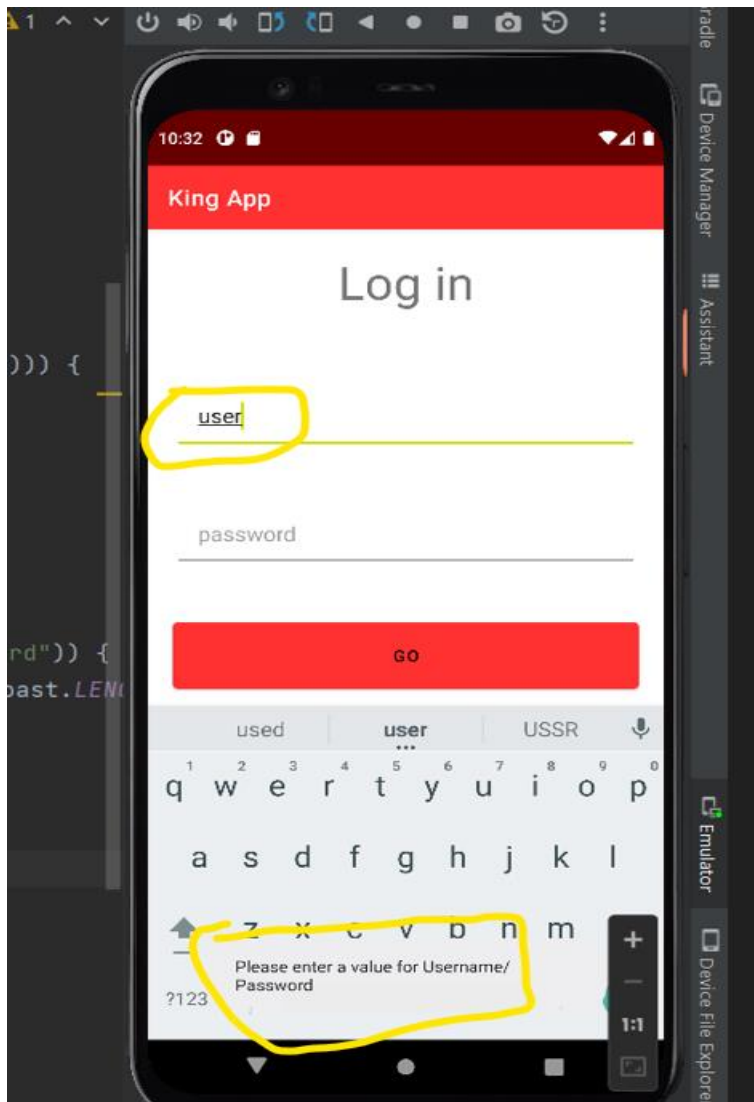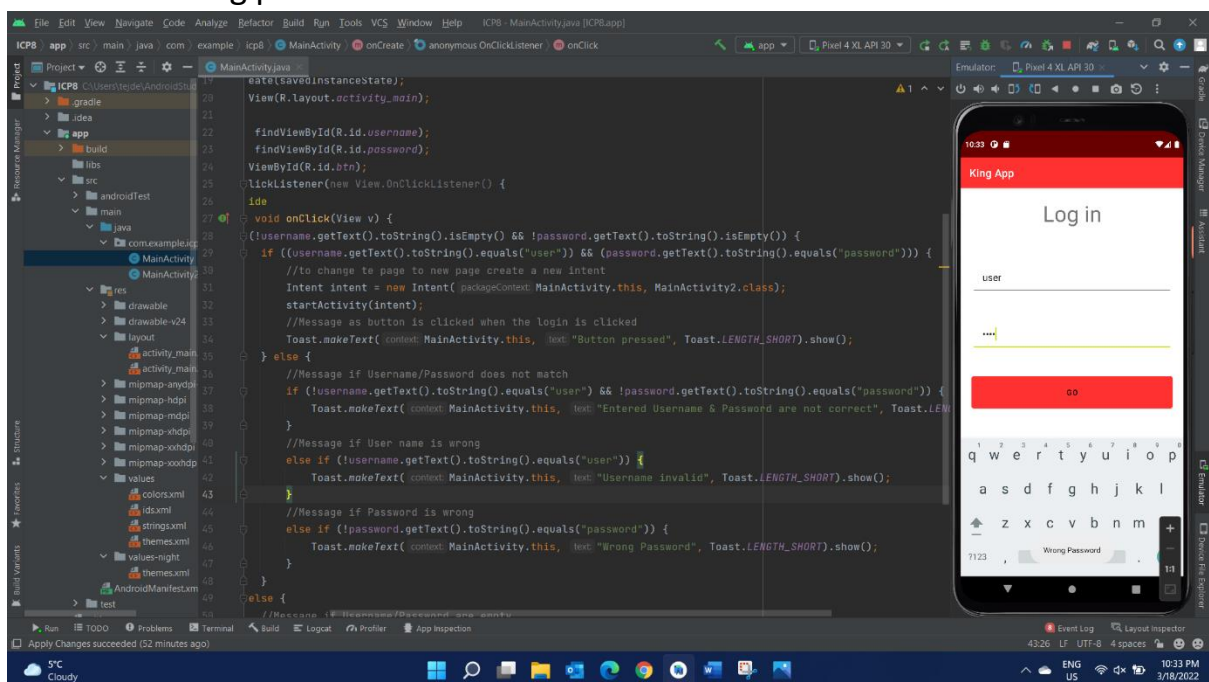
Below are the logics for the screens

Outputs:

Case-1: If user name is "user" and password is "password" then logged in successful and showing message as "Button clicked"
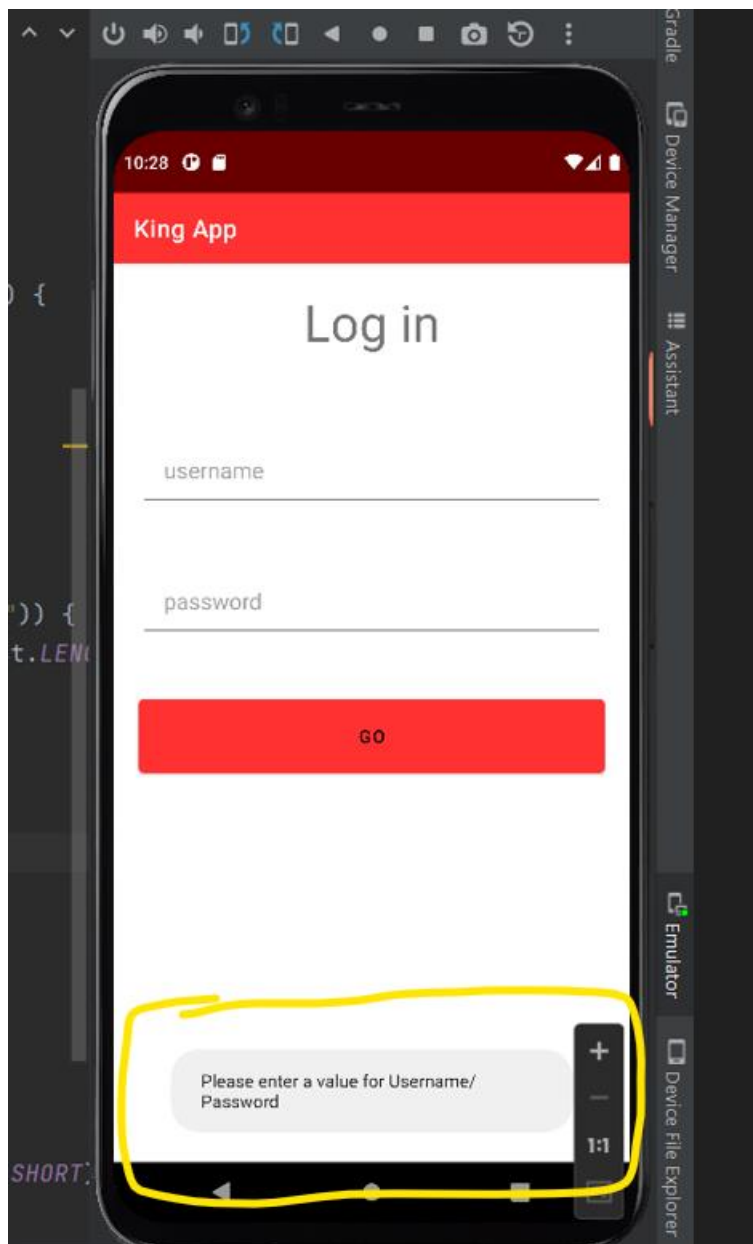
Case-2-If username entered as user and password is blank then shows message as Please enter valid user name and password.

Case-3 – Wrong password case

Else case output:

Contribution:

We have contributed equally.