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GitHub Link :

https://github.com/KavyaPara/Web_Development_Course/tree/main/Mobile-Development/ICP8

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Developing simple login applications for android

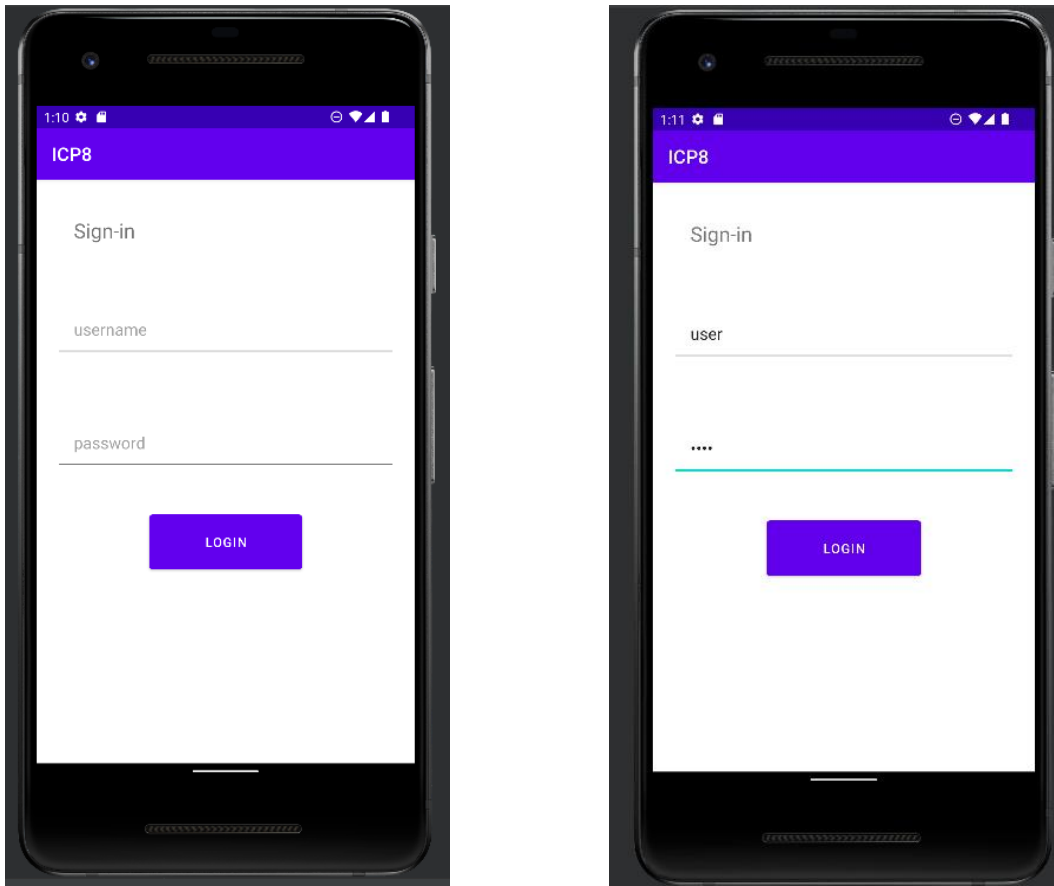
Android Studio:

Android studio provides an environment where one can create/build the applications for Android tablets, phones, etc., It is the only official IDE for Android. It provides features like layout editor which will help in creating views by just drag and drop.

Tasks:

- We have downloaded and installed the Android Studio.
- We have created a new project and selected an empty activity with Java as language.
- We have also configured an emulator with pixel 2 as our virtual device and ran the emulator to test our changes.
- Then we have created a simple login screen with two input text fields like username, password and a login button by using the MainActivity.java.

- An Activity is a single screen that is visible to the user.



- Whenever user presses the login button and if the given credentials are valid, it will navigate to a welcome screen.
- For navigating to a different screen, we have used the Intent object. We can use the Intent object when we want to start another activity.

```
public void onClick(View view)
{
    /*Checking Whether The Credentials Are Valid Or Not*/
    if((username.getText().toString().equals("user"))&&(password.getText().toString().equals("user"))){

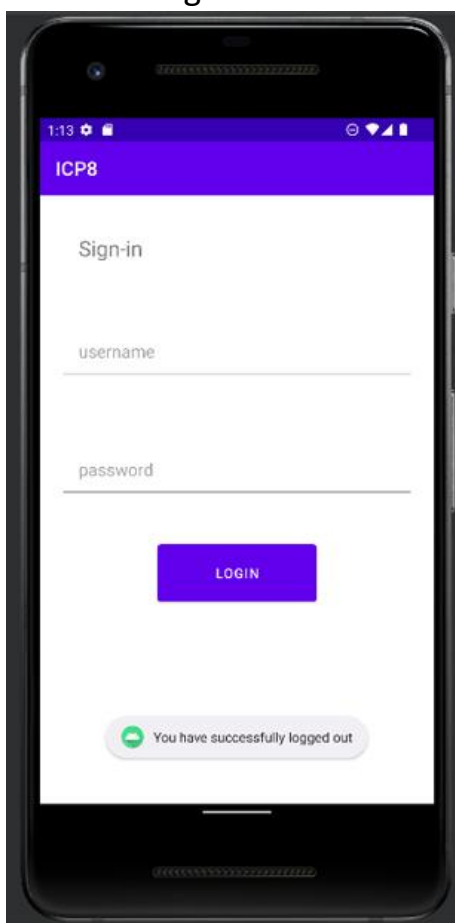
        /*Navigating To Welcome Screen*/
        Intent intent = new Intent( packageContext: MainActivity.this, MainActivity2.class);
        startActivity(intent);
        Toast.makeText( context: MainActivity.this, text: "You entered the right value",Toast.LENGTH_SHORT).show();
    }

    /*Displaying The Appropriate Message If The Credentials Are Invalid*/
    else{
        Toast.makeText( context: MainActivity.this, text: "You have entered the wrong credentials",Toast.LENGTH_SHORT).show();
    }
}
}
```

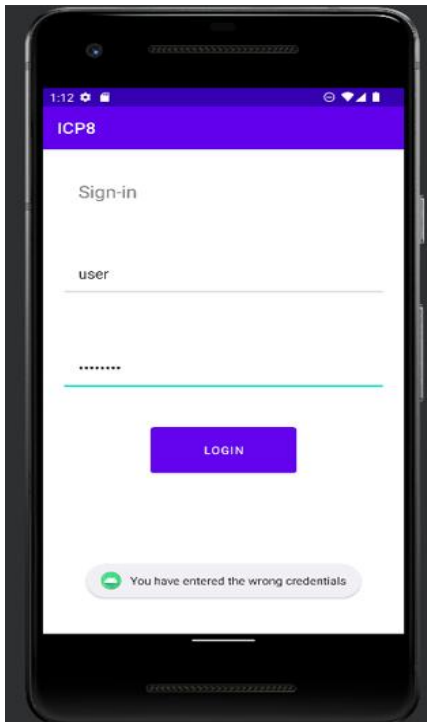
- In the welcome screen, we have created a logout button.



- And whenever the user presses the logout button, it will navigate the screen to login screen and also displays the appropriate message.



- If the user enters invalid credentials, it will display an appropriate message saying that the entered credentials are wrong.



- To display these appropriate messages we have used the Toast.

```
/*Displaying The Appropriate Message If The Credentials Are Invalid*/  
else{  
    Toast.makeText(context, MainActivity.this, text: "You have entered the wrong credentials", Toast.LENGTH_SHORT).show();  
}
```

Contributions:

We both have contributed equally.