ICP 8

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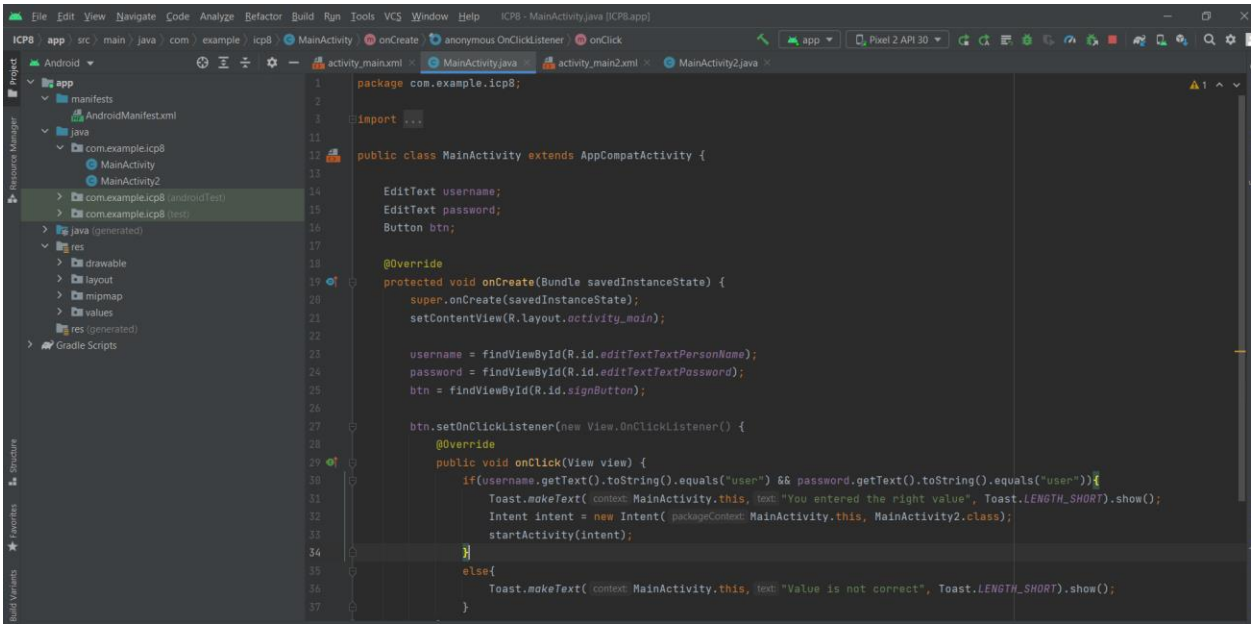
Aim: The goal of this ICP is to create a mobile application, which has the login page and when the user enters login and password as user, they get to the welcome page and when they click on the logout button, they get back to the log in page.

Explanation:



```
package com.example.icp8;

import ...

public class MainActivity extends AppCompatActivity {

    EditText username;
    EditText password;
    Button btn;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

        username = findViewById(R.id.editTextTextPersonName);
        password = findViewById(R.id.editTextTextPassword);
        btn = findViewById(R.id.signButton);

        btn.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                if(username.getText().toString().equals("user") && password.getText().toString().equals("user")){
                    Toast.makeText( context: MainActivity.this, text: "You entered the right value", Toast.LENGTH_SHORT).show();
                    Intent intent = new Intent( packageContext: MainActivity.this, MainActivity2.class);
                    startActivity(intent);
                }
                else{
                    Toast.makeText( context: MainActivity.this, text: "Value is not correct", Toast.LENGTH_SHORT).show();
                }
```

We create the MainActivity.java file to create a view. We create variables and link them to the fields using the id they are being assigned. When the fields are entered and submitted, the strings are matched with the string user and when matched, the toast function displays the title “you are entered the right way”. We then go to the next view using the intent function or if the value is incorrect, we display “value is not correct”.

activity_main.xml | MainActivity.java | activity_main2.xml | MainActivity2.java

Code | Split | Design

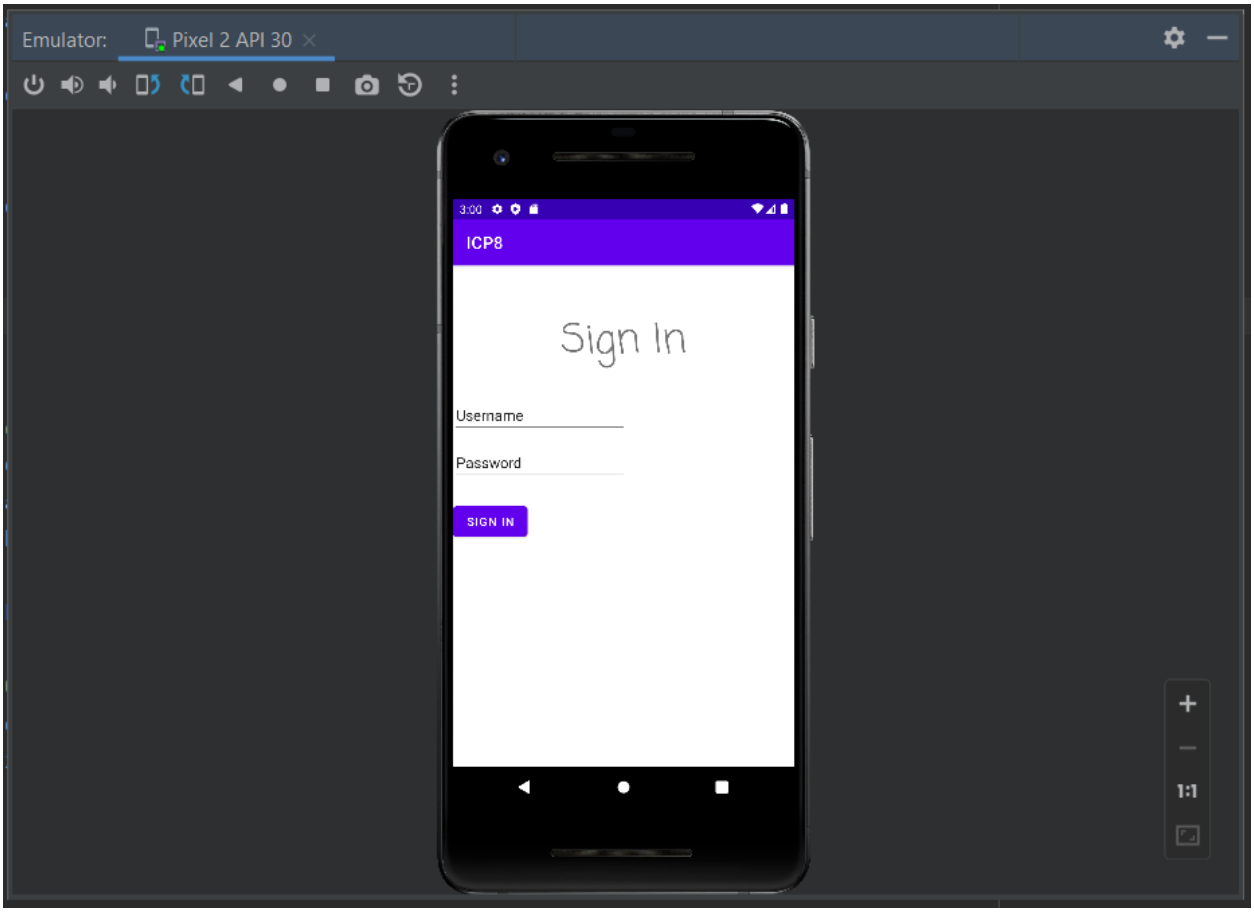
```xml
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".MainActivity">

    <TextView
        android:id="@+id/logo"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:fontFamily="casual"
        android:text="@string/sign_in"
        android:textSize="48sp"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintLeft_toLeftOf="parent"
        app:layout_constraintRight_toRightOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.103" />

    <Button
        android:id="@+id/signButton"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginTop="24dp"
        android:text="@string/sign_in"
        app:layout_constraintTop_toBottomOf="@id/editTextTextPassword"
```

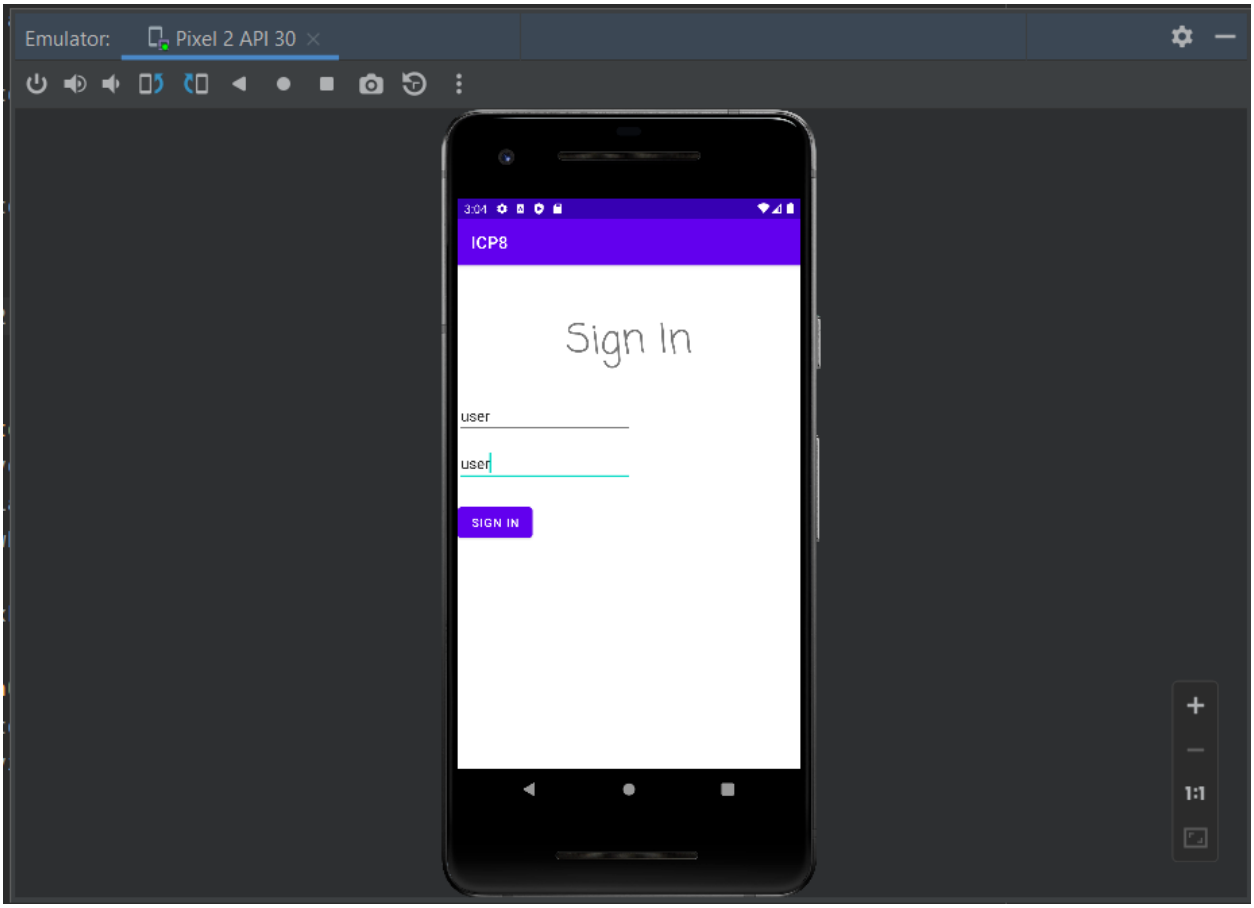
ain.xml | app | Pixel 2 API 30

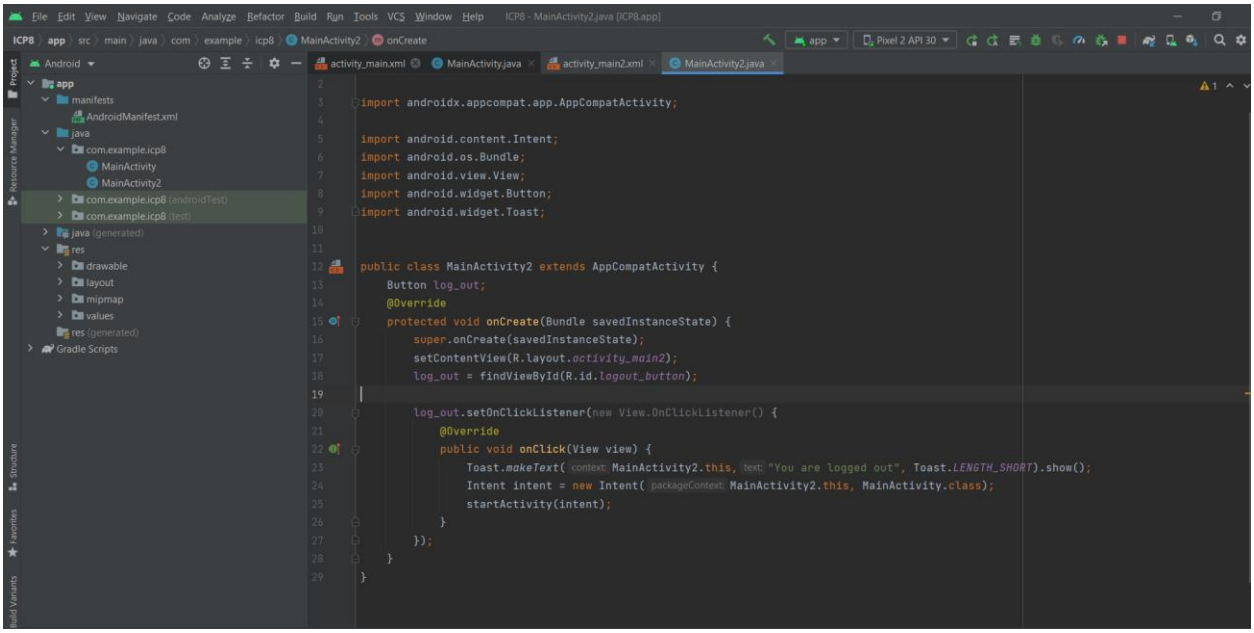
activity_main.xml | MainActivity.java | activity_main2.xml | MainActivity2.java

Code | Split | Design

```xml
        tools:ignore="MissingConstraints"
        tools:layout_editor_absoluteX="160dp" />

    <EditText
        android:id="@+id/editTextTextPersonName"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginTop="30dp"
        android:ems="10"
        android:inputType="textPersonName"
        android:text="Username"
        app:layout_constraintTop_toBottomOf="@id/logo"
        tools:layout_editor_absoluteX="103dp" />

    <EditText
        android:id="@+id/editTextTextPassword"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginTop="12dp"
        android:ems="10"
        android:inputType="textPersonName"
        android:text="Password"
        app:layout_constraintTop_toBottomOf="@id/editTextTextPersonName"
        tools:ignore="TouchTargetSizeCheck"
        tools:layout_editor_absoluteX="97dp" />

</androidx.constraintlayout.widget.ConstraintLayout>
```


Emulator:
Pixel 2 API 30
3:00
ICP8
Sign In
Username
Password
SIGN IN
1:1



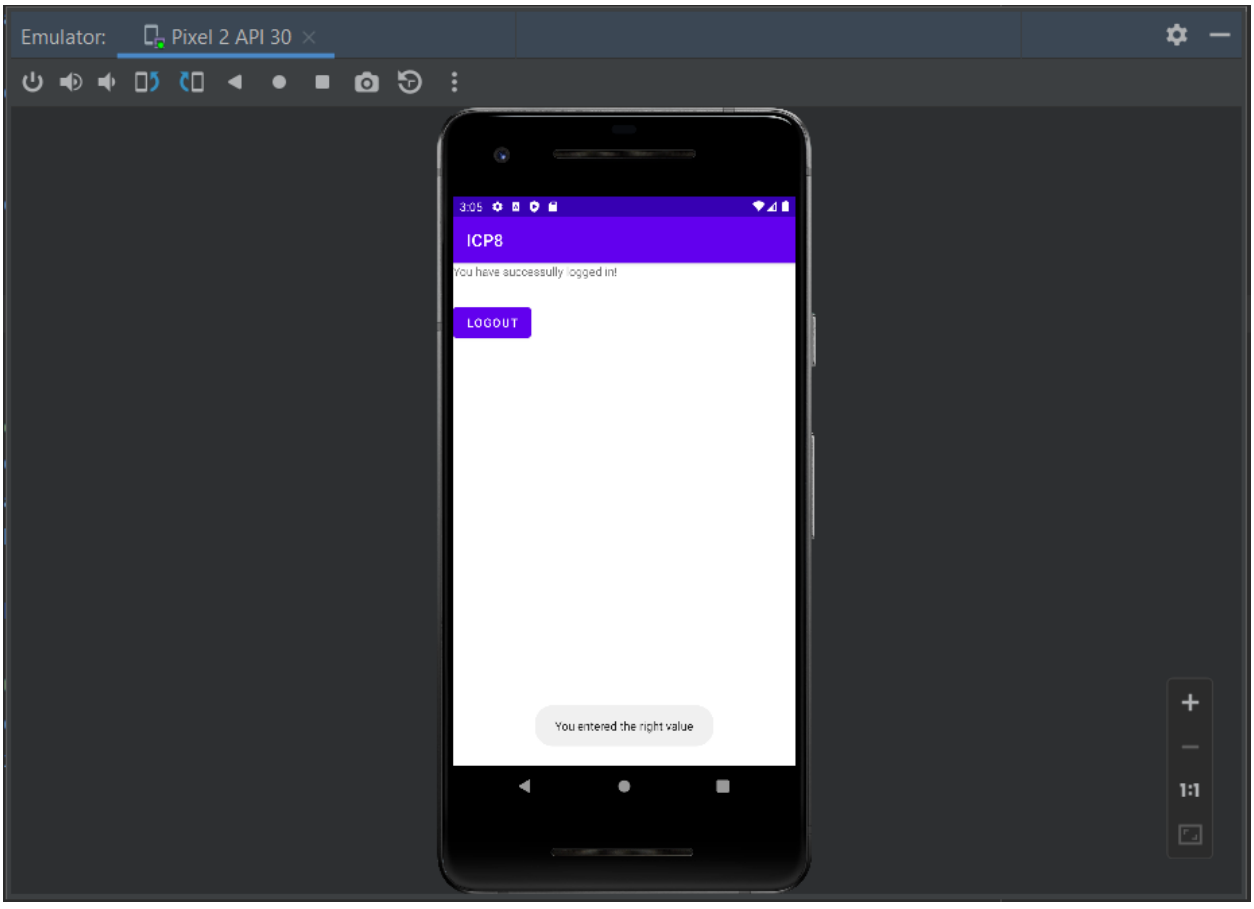


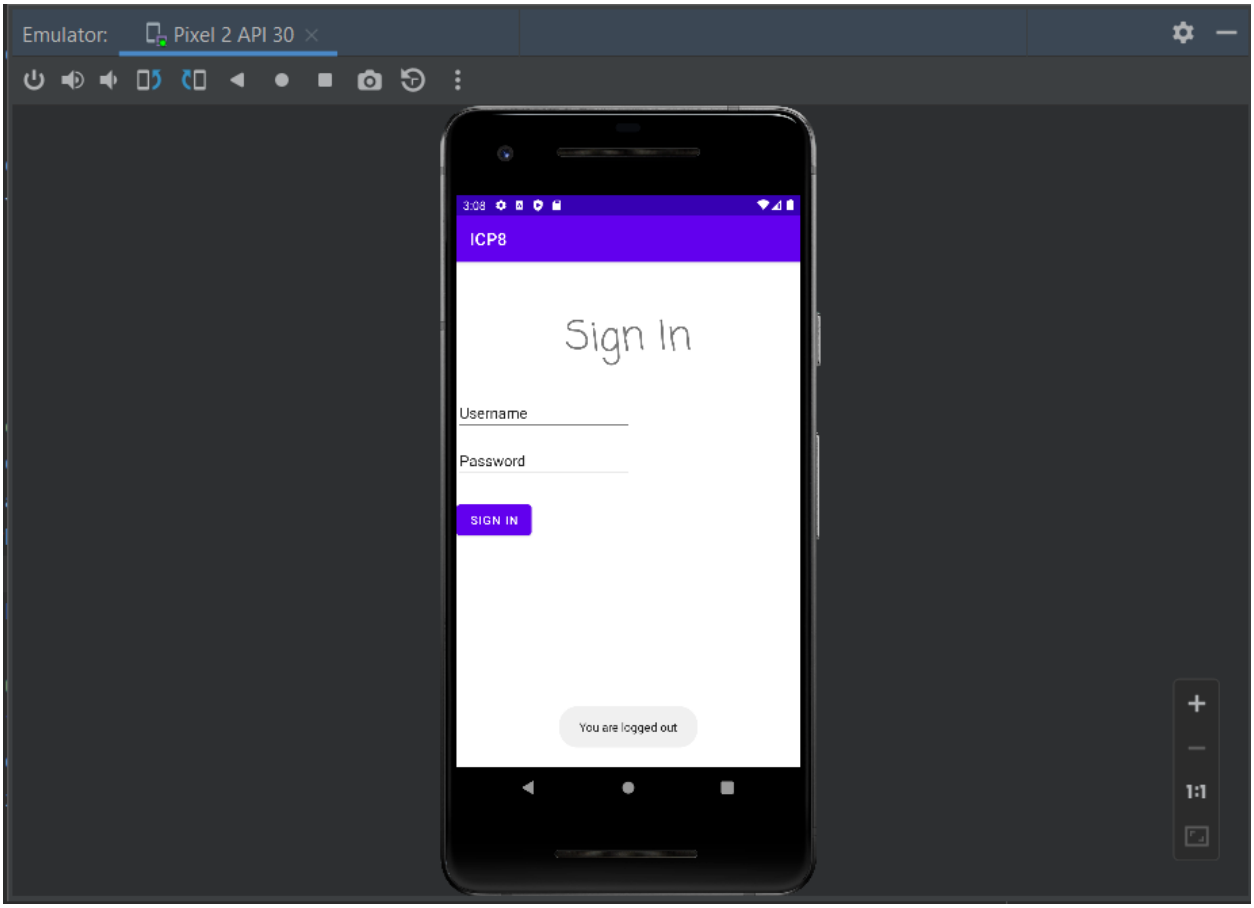
When we get to the welcome page, it displays the string and the logout button. On clicking the logout button we get to the login page again, along with the displayed “You are logged out” string.

activity_main.xml | MainActivity.java | activity_main2.xml | MainActivity2.java

Code | Split | Design

```xml
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".MainActivity2">

    <TextView
        android:id="@+id/textView1"
        android:layout_width="210dp"
        android:layout_height="19dp"
        android:text="You have successully logged in!"
        tools:layout_editor_absoluteX="7dp"
        tools:layout_editor_absoluteY="144dp" />

    <Button
        android:id="@+id/logout_button"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginTop="28dp"
        android:text="Logout"
        app:layout_constraintTop_toBottomOf="@id/textView1"
        tools:layout_editor_absoluteX="64dp" />
</androidx.constraintlayout.widget.ConstraintLayout>
```




Emulator:
Pixel 2 API 30
3:08
ICP8
Sign In
Username
Password
SIGN IN
You are logged out
1:1