## WEB ICP8

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GitHub: https://github.com/VenubabuLinga/WebDevCourse/tree/main/Moblie dev/ICP8

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GitHub link: <a href="https://github.com/kunisettysarath/WebMobileProgramming-">https://github.com/kunisettysarath/WebMobileProgramming-</a>

Spring22/tree/main/WebDevelopment/ICP's/ICP8

In this ICP, we are going create android page which consists simple sign in with userid and password, which directs to welcome page. And redirecting out to the home from the welcome page on click.

## 1.res/layout

This is a directory for files that define our app's user interface. Here we created two activity files activity\_main.xml and activity\_welcomepage.xml file.

An activity file, like a window or frame in Java, represents a single screen with a user interface. ContextThemeWrapper is a subclass of Android activity.

### i.Activity\_main.xml

In this activity file we have added the text view, edit text and material button with corresponding id values to them in the relative layout.

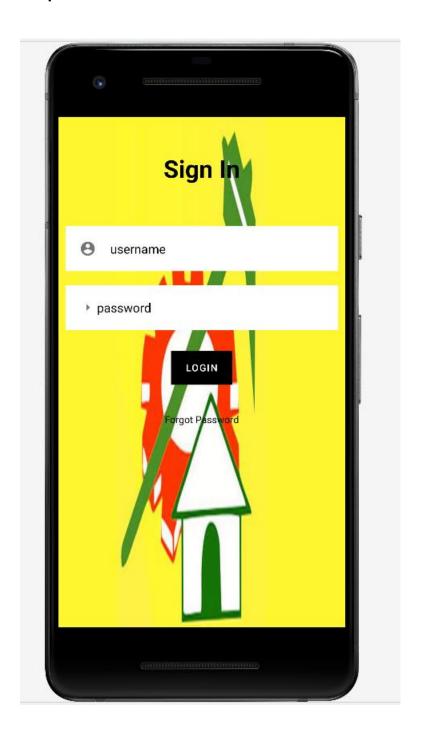
We do make the background of activity file to image tdp\_2 from drawable folder. We have inserted the drawableLeft="@drawable/ic\_baseline\_account\_circle\_24" in the user id edit text and also the forward arrow in the password edit text.

The material button click will have the functionality of checking the user id and password and will redirect to the welcomepage.

```
<?xml version="1.0" encoding="utf-8"?>
  <RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
                                                                 o ↔ $ %
     xmlns:app="http://schemas.android.com/apk/res-auto"
     xmlns:tools="http://schemas.android.com/tools"
     android: layout width="match parent"
                                                                           Sign Ir
     android:layout_height=<mark>"</mark>match_parent"
7
     android:background="@drawable/tdp 2"
     tools:context=".MainActivity">
     <TextView
                                                                   username
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
                                                                   password
        android:id="@+id/signin"
        android:text="Sign In"
        android:textColor="@color/black"
        android:textSize="35dp"
        android:textStyle="bold"
        android:layout_margin="50dp"
        android:gravity="center_horizontal"
        />
 <EditText
     android:layout_width="match_parent"
     android:layout_height="wrap_content"
     android:id="@+id/username"
     android:layout_below="@id/signin"
     android:background="@color/white"
     android:drawableLeft="@drawable/ic_baseline_account_circle_24"
     android:drawablePadding="20dp"
     android:hint="username"
     android:textColorHint="@color/black"
     android:textColor="@color/black"
     android:layout_margin="10dp"
     android:padding="20dp"
               />
 <EditText
     android:layout_width="match_parent"
     android:layout_height="wrap_content"
     android:id="@+id/password"
     android:layout_below="@id/username"
     android:inputType="textPassword"
     android:ems="10"
     android:background="@color/white"
     android:drawableLeft="@drawable/ic_baseline_arrow_right_24"
     android:drawablePadding="1dp"
     android:hint="password"
     android:textColorHint="@color/black"
     android:textColor="@color/black"
     android:layout_margin="10dp"
     android:padding="20dp"
```

```
<com.google.android.material.button.MaterialButton</pre>
        android:id="@+id/loginbtn"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_below="@id/password"
        android:layout_centerHorizontal="true"
        android:layout_marginStart="20dp"
        android:layout_marginTop="20dp"
        android:layout_marginEnd="20dp"
        android:layout_marginBottom="20dp"
        android:background="@color/black"
        android:backgroundTint="#FF5722"
        android:text="LOGIN"
        app:backgroundTint="#000000" />
    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:id="@+id/forgotpass"
        android:layout_below="@id/loginbtn"
        android:text="Forgot Password"
        android:textColor="@color/black"
        android:layout_centerHorizontal="true"
        android:layout_margin="20dp"/>
</RelativeLayout>
```

# Output:



#### 2.Java folder:

This folder contains your project's java source files. It comes with a MainActivity java source file with an activity class that runs when you use the app icon to launch your app.

In this folder we have two files MainActivity.java and welcomepage.java files.

The MainActivity.java is the class file for the MainActivity layout file. Which will view the layout activity\_main.

```
> 🖿 build
                                             10
                                                    public class MainActivity extends AppCompatActivity {
  libs
                                            11
                                                        @Override
 ∨ III src
                                                        //redirecting the main page layout activity_main
  > androidTest
                                            13 🍑
                                                        protected void onCreate(Bundle savedInstanceState) {
   ∨ 🖿 main
                                            14
                                                            super.onCreate(savedInstanceState);
     ∨ 🖿 java
                                                            setContentView(R.layout.activity_main);
                                                 //variables for the text inputs and button, assigning the values using ids from activity file.
                                            16

    MainActivity

           © welcomepage
                                                            TextView username=(TextView)findViewById(R.id.username);

✓ Image res

                                                            TextView password =(TextView)findViewById(R.id.password);

∨ I drawable

                                                            MaterialButton loginbtn= (MaterialButton)findViewById(R.id.loginbtn);
            4 ic baseline account circle 24 vml
```

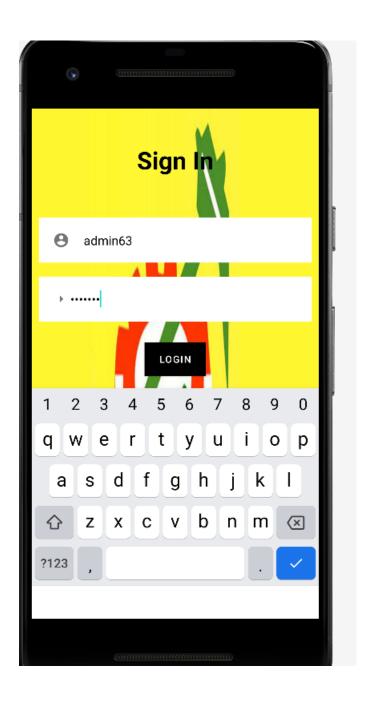
We do have the functionality of checking the userID and password when we click the login button.

We added the 3 scenarios to the hardcoded username admin63 and password admin63

- 1. checking for the not null condition for both the userid and password.
- 2. incorrect username/password
- 3. missing valid userid and password.

After successful login the page will redirect to the welcomepage the other page.

```
//checking the username admin63 and password admin63
loginbtn.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
        //checking for the not null condition for both the userid and password.
        if(!username.getText().toString().isEmpty() && !password.getText().toString().isEmpty()) {
            if ((username.getText().toString().equals("admin63")) && (password.getText().toString().equals("admin63"))) {
                 //creating the intance of intent to redirect to welcome page
                Intent intent = new Intent( packageContext: MainActivity.this, welcomepage.class);
                startActivity(intent);
                //showing text after the successful redirect.
                Toast.makeText( context MainActivity.this, text "Redirected to welcome", Toast.LENGTH_SHORT).show();
             } else { //incorrect username/password
                if (!username.getText().toString().equals("admin63") && !password.getText().toString().equals("admin63")) {
                    Toast.makeText( context MainActivity.this, text "Incorrect Username & Password", Toast.LENGTH_SHORT).show();
                } else if (!username.getText().toString().equals("admin63")) {
                    Toast.makeText( context MainActivity.this, text "Username InCorrect", Toast.LENGTH_SHORT).show();
                } else if (!password.getText().toString().equals("admin63")) {
                     Toast.makeText( context MainActivity.this, text "Password InCorrect", Toast.LENGTH_SHORT).show();
                                                                                                                                    □ Device
        } else { //missing valid userid and password.
            Toast.makeText( context MainActivity.this, text "You need to enter valid username/password", Toast.LENGTH_SHORT).show();
});
```



# Activity\_welcomepage.xml file

in this file we have added the textview and material button which will take to the login page.

We added the other background image to this activity layout.

## Input code:

```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
    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"
    android:background="@drawable/logo_2"
    android:clickable="false"
    tools:context=".welcomepage">
    <TextView
        android:id="@+id/welcomeText"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_marginStart="20dp"
        android:layout_marginTop="20dp"
        android:layout_marginEnd="20dp"
        android:layout_marginBottom="20dp"
        android:gravity="center"
        android:padding="20dp"
        android:text="Welcome!!"
        android:textSize="50sp"
        android:textStyle="bold" />
    <com.google.android.material.button.MaterialButton</pre>
        android:id="@+id/logoutbtn"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignTop="@+id/welcomeText"
        android:layout_alignParentStart="true"
        android:layout_alignParentEnd="true"
```

# Ouput:



## Welcomepage.java:

Here in this class we have used button to take to the sign in page when we click the button. And also the text view for the welcome text.

#### Code:

```
public class welcomepage extends AppCompatActivity {

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

    MaterialButton logoutBtn= (MaterialButton)findViewById(R.id.logoutbtn);

    logoutBtn.setOnClickListener(view -> { //It goes from second page to the login page Intent redirectTOHome = new Intent( packageContext welcomepage.this, MainActivity.class);
    startActivity(redirectTOHome);
});
}
}
```

### **Conclusion:**

By this ICP we have gained knowledge on how to create android page with simple activity layout along with the java code.

#### Diffculties:

we have written the code for in correct password and user id checking. And also to popup a error toast text. But the message toast is not popping up.