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20MCA315

THIRD SEMESTER MCA DEGREE PRACTICAL EXAMINATION FEBRUARY 2022 20MCA243 MOBILE APPLICATION DEVELOPMENT LAB

Q: Develop an android application for electricity bill generation (Use Intent)

- Create a login form for validation (Username and Password checking)
- Create a form for electricity bill generation and display

Source code:

MainActivity.java

```
package com.example.electricitybill;
import androidx.appcompat.app.AppCompatActivity;
import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.Toast;
public class MainActivity extends AppCompatActivity {
   EditText uNameET,uPswdET;
   Button LoginBtn;
   String TVUsername, TVPassword;
   @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
       uNameET = findViewById(R.id.userName);
       uPswdET = findViewById(R.id.userPassword);
        LoginBtn = findViewById(R.id.LoginButton);
        LoginBtn.setOnClickListener(new View.OnClickListener() {
           @Override
```

```
public void onClick(View view) {
                TVUsername = uNameET.getText().toString().trim();
                TVPassword = uPswdET.getText().toString().trim();
                if(TVUsername.isEmpty()){
                    uNameET.setError("Please provide your Username");
                }else if (TVPassword.isEmpty()){
                    uPswdET.setError("Please provide your Password");
                }else if(TVUsername.equals("user") && TVPassword.equals("user")){
                    try {
                        Intent intent = new
Intent(getApplicationContext(),BillPayment.class);
                        startActivity(intent);
                        Toast.makeText(getApplicationContext(), "Login
Successfully", Toast.LENGTH LONG).show();
                    }catch (Exception e){
                        Toast.makeText(getApplicationContext(), "An Error occuring
Password", Toast.LENGTH_LONG).show();
        });
```

activity main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout</pre>
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"
    android:background="#D5ECEF'
    tools:context=".MainActivity">
    <TextView
        android:id="@+id/textView2"
        android:layout_width="wrap_content"
        android:layout height="wrap content"
        android:layout marginTop="16dp"
        android:text="Consumer Login Portal"
        android:textSize="28sp"
        android:textStyle="bold"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout constraintHorizontal bias="0.495"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toBottomOf="@+id/imageView" />
    <TextView
```

```
android:id="@+id/textView3"
    android:layout_width="wrap_content"
    android:layout height="wrap content"
    android:layout marginTop="100dp"
    android:text="Username"
    android:textColor="#3F51B5"
    android:textSize="22sp'
    android:textStyle="bold"
    app:layout constraintEnd toEndOf="parent"
    app:layout constraintHorizontal bias="0.251"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/textView2" />
<EditText
    android:id="@+id/userName"
    android:layout width="250dp"
    android:layout height="45dp"
    android:layout marginTop="4dp"
    android:ems="10"
    android:hint="Provide your username"
    android:inputType="textPersonName"
    android:textColor="#3F51B5"
    android:textSize="20sp"
    app:layout constraintEnd toEndOf="parent"
    app:layout_constraintHorizontal bias="0.481"
    app:layout constraintStart toStartOf="parent"
    app:layout_constraintTop toBottomOf="@+id/textView3" />
<TextView
    android:id="@+id/textView4"
    android:layout_width="wrap_content"
    android:layout height="wrap content"
    android:layout_marginTop="20dp"
    android:text="Password"
    android:textColor="#3F51B5"
    android:textSize="22sp"
    android:textStyle="bold"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal bias="0.249"
    app:layout constraintStart toStartOf="parent"
    app:layout constraintTop toBottomOf="@+id/userName" />
<EditText
    android:layout width="249dp"
    android:layout_height="53dp"
    android:layout marginTop="8dp"
    android:ems="10"
    android:hint="Provide your password"
    android:inputType="textPassword"
    android:textColor="#3F51B5"
    app:layout constraintEnd toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.481"
    app:layout_constraintStart_toStartOf="parent"
    app:layout constraintTop toBottomOf="@+id/textView4" />
```

```
<Button
        android:id="@+id/LoginButton"
        android:layout width="wrap content"
        android:layout_height="wrap_content"
        android:layout_marginStart="155dp"
        android:layout_marginTop="70dp"
        android:layout_marginEnd="156dp"
        android:layout marginBottom="132dp"
        android:onClick="login"
        android:text="Login'
        android:textSize="20sp"
        app:layout constraintBottom toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout constraintTop toBottomOf="@+id/userPassword" />
    <ImageView</pre>
        android:id="@+id/imageView"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginTop="44dp"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout constraintStart toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:srcCompat="@drawable/kseb" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

BillPayment.java

```
package com.example.electricitybill;
import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
public class BillPayment extends AppCompatActivity {
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_bill_payment);
    }
}
```

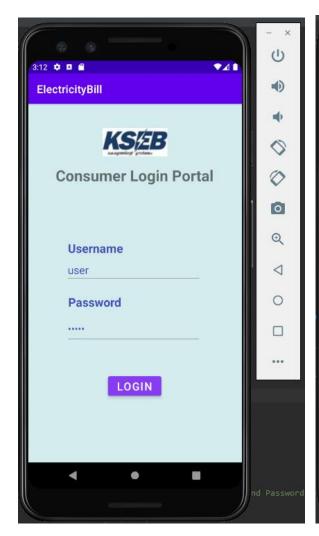
activity bill payment.xml

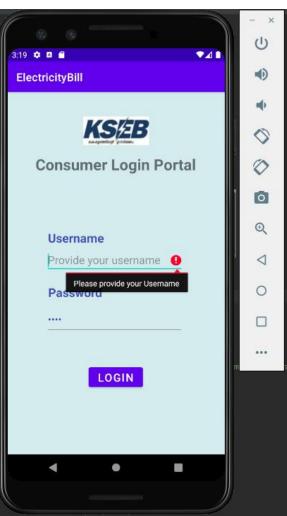
```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout</pre>
```

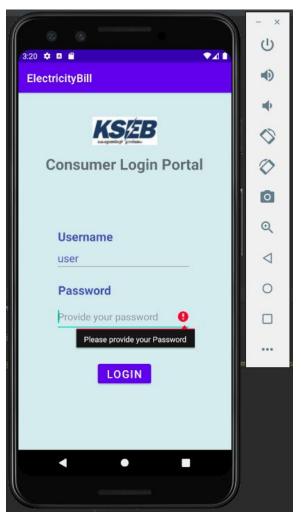
```
xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout width="match parent"
    android:layout_height="match_parent"
    android:background="#D5ECEF"
    <TextView
        android:id="@+id/textView2"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout marginTop="16dp"
        android:textStyle="bold"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout constraintHorizontal bias="0.495"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toBottomOf="@+id/imageView" />
    <TextView
        android:id="@+id/textView3"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout marginTop="100dp"
        android:text="Username"
        android:textColor="#3F51B5"
        android:textSize="22sp"
        android:textStyle="bold"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout constraintHorizontal bias="0.251"
        app:layout_constraintStart_toStartOf="parent"
        app:layout constraintTop toBottomOf="@+id/textView2" />
    <EditText
        android:id="@+id/userName"
        android:layout_width="250dp"
        android:layout_height="45dp"
        android:layout_marginTop="4dp"
        android:ems="10"
        android:hint="Provide your username"
        android:inputType="textPersonName"
        android:textColor="#3F51B5"
        android:textSize="20sp"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout constraintHorizontal bias="0.481"
        app:layout_constraintStart_toStartOf="parent"
        app:layout constraintTop toBottomOf="@+id/textView3" />
    <TextView
        android:id="@+id/textView4"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout marginTop="20dp"
```

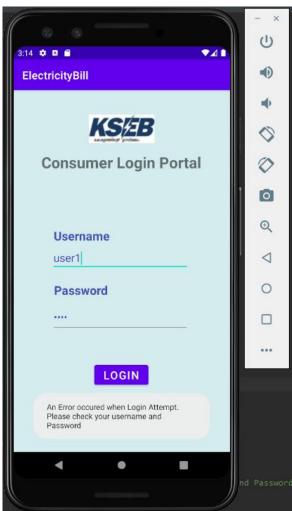
```
android:text="Password'
        android:textColor="#3F51B5"
        android:textSize="22sp"
        android:textStyle="bold"
        app:layout constraintEnd toEndOf="parent"
        app:layout constraintHorizontal bias="0.249"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toBottomOf="@+id/userName" />
    <EditText
        android:id="@+id/userPassword"
        android:layout_width="249dp'
        android:layout height="53dp"
        android:layout_marginTop="8dp"
        android:hint="Provide your password"
        android:inputType="textPassword"
        android:textColor="#3F51B5"
        app:layout constraintEnd toEndOf="parent"
        app:layout_constraintHorizontal bias="0.481"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toBottomOf="@+id/textView4" />
    <Button
        android:layout width="wrap content"
        android:layout height="wrap content"
        android:layout_marginStart="155dp"
        android:layout_marginTop="70dp"
        android:layout_marginEnd="156dp"
        android:layout_marginBottom="132dp"
        android:onClick="login"
        android:text="Login'
        android:textSize="20sp"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout constraintEnd toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toBottomOf="@+id/userPassword" />
    <ImageView</pre>
        android:id="@+id/imageView"
        android:layout width="wrap content"
        android:layout_height="wrap_content"
        android:layout_marginTop="44dp"
        app:layout constraintEnd toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout constraintTop toTopOf="parent"
        app:srcCompat="@drawable/kseb" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

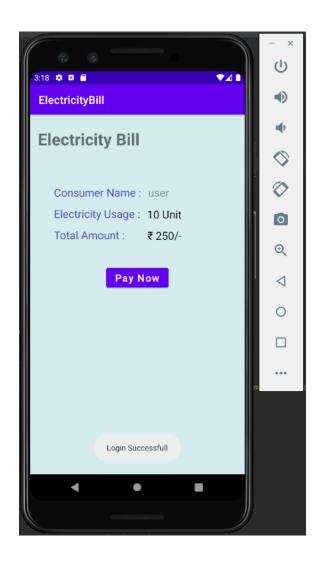
OUTPUT











RESULT

Successfully developed Android Application and Output executed.