K. K. Wagh Polytechnic Nashik Department of Information Technology

Subject: Mobile Application Development

Subject Code: 22617

Title: Electricity Bill Management System

Group Members:

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activity_main.xml

<TextView

```
<?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" >
  <ImageView
    android:src="@drawable/background"
    android:scaleType="fitXY"
    android:layout_width="match_parent"
    android:layout_height="match_parent"/>
  <TextView
    android:id="@+id/textView2"
    android:layout width="376dp"
    android:layout_height="144dp"
    android:layout_marginTop="16dp"
    android:gravity="center"
    android:text="Welcome to the Electricity Billing Management System"
    android:textColor="#0E0E0E"
    android:textSize="30sp"
    android:textStyle="bold"
    app:layout_constraintHorizontal_bias="0.542"
    app:layout_constraintLeft_toLeftOf="parent"
    app:layout_constraintRight_toRightOf="parent"
    app:layout_constraintTop_toTopOf="parent" />
```

```
android:id="@+id/textView1"
  android:layout_width="378dp"
  android:layout_height="70dp"
  android:layout_marginTop="52dp"
  android:text="Consumer ID:"
  android:textColor="#0B0A0A"
  android:textSize="30sp"
  android:textStyle="bold"
  app:layout_constraintHorizontal_bias="0.515"
  app:layout_constraintLeft_toLeftOf="parent"
  app:layout_constraintRight_toRightOf="parent"
  app:layout_constraintTop_toBottomOf="@+id/textView2"/>
<EditText
  android:id="@+id/consumerid"
  android:layout_width="373dp"
  android:layout_height="70dp"
  and roid: layout\_marginTop = "32dp"
  android:gravity="center"
  android:hint="ConsumerID"
  android:textColor="#050505"
  android:textSize="24sp"
  android:textStyle="bold"
  app:layout_constraintEnd_toEndOf="parent"
  app:layout_constraintStart_toStartOf="parent"
  app:layout_constraintTop_toBottomOf="@+id/textView1"/>
<Button
  android:id="@+id/button1"
  android:layout_width="200dp"
  android:layout_height="72dp"
  android:layout_marginTop="236dp"
  android:text="Submit"
```

```
android:textSize="24sp"
    android:textStyle="bold"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/consumerid"/>
  <TextView
    android:id="@+id/textView"
    android:layout_width="320dp"
    android:layout_height="54dp"
    android:layout_marginTop="32dp"
    android:text="Password:"
    android:textColor="#101010"
    android:textSize="34sp"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/consumerid" />
  <EditText
    android:id="@+id/Password"
    android:layout_width="339dp"
    android:layout_height="63dp"
    android:ems="10"
    android:hint="Password"
    android:gravity="center"
    android:inputType="textPassword"
    android:textColor="#0B0A0A"
    android:textSize="24sp"
    app:layout_constraintBottom_toTopOf="@+id/button1"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/textView"/>
</androidx.constraintlayout.widget.ConstraintLayout>
```

MainActivity.java

package com.example.microproject; 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 { Button submit; EditText consumer, password; @Override protected void onCreate(Bundle savedInstanceState) { super.onCreate(savedInstanceState); setContentView(R.layout.activity_main); consumer=(EditText)findViewById(R.id.consumerid); password=(EditText)findViewById(R.id.Password); submit = (Button)findViewById(R.id.button1);submit.setOnClickListener(new View.OnClickListener() { @Override public void onClick(View v) { if(consumer.getText().toString().equals("admin") && password.getText().toString().equals("admin")) nextPage1(); else Toast.makeText(getApplicationContext(), "invalid credentails", Toast.LENGTH_LONG).show(); } **})**; }

```
public void nextPage1(){
    Intent intent = new Intent(this,status.class);
    startActivity(intent);
}
```

activity_status.xml

<TextView

```
<?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=".status"
  <TextView
    android:id="@+id/bill"
    android:layout_width="311dp"
    android:layout_height="59dp"
    android:text="Your Bill:"
    android:textColor="#050505"
    android:textSize="30sp"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.43"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.309" />
```

```
android:id="@+id/date"
  android:layout_width="311dp"
  android:layout_height="59dp"
  android:layout_marginTop="52dp"
  android:text="Due Date: 27/05/2022"
  android:textColor="#0B0A0A"
  android:textColorHint="#040303"
  android:textSize="30sp"
  app:layout_constraintEnd_toEndOf="parent"
  app:layout_constraintHorizontal_bias="0.43"
  app:layout_constraintStart_toStartOf="parent"
  app:layout_constraintTop_toBottomOf="@+id/bill"/>
<EditText
  android:id="@+id/unit"
  android:layout_width="306dp"
  android:layout_height="49dp"
  android:layout_marginStart="32dp"
  android:layout_marginEnd="32dp"
  android:layout_marginBottom="32dp"
  android:ems="10"
  android:hint="Unit consumed"
  android:textColor="#100F0F"
  android:textColorHint="#0B0A0A"
  app:layout_constraintBottom_toTopOf="@+id/bill"
  app:layout_constraintEnd_toEndOf="parent"
  app:layout_constraintHorizontal_bias="0.268"
  app:layout_constraintStart_toStartOf="parent"
  app:layout_constraintTop_toTopOf="parent"
  app:layout_constraintVertical_bias="0.884" />
```

```
android:id="@+id/paybutton"
android:layout_width="359dp"
android:layout_height="132dp"
android:layout_marginBottom="112dp"
android:text="Pay Now"
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.514"
app:layout_constraintStart_toStartOf="parent" />
</androidx.constraintlayout.widget.ConstraintLayout>

Status.java
package com.example.microproject;
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.TextView;
import android.os.Handler;
public class status extends AppCompatActivity {
  EditText unit;
  TextView bill;
  TextView a;
  Button pay;
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
```

```
setContentView(R.layout.activity_status);
a = (TextView)findViewById(R.id.bill);
unit = (EditText)findViewById(R.id.unit);
pay = (Button) findViewById(R.id.paybutton);
pay.setOnClickListener(new View.OnClickListener() {
  @Override
  public void onClick(View v) {
    int unitconsumed = Integer.parseInt(unit.getText().toString());
    double bill = 0;
    if (unitconsumed<=100){
       bill = 4.22 * unitconsumed;
       a.setText("Your Bill:"+ bill);
     }
    else if (unitconsumed>=100 && unitconsumed<=300){
       bill = 5.02 * unitconsumed;
       a.setText("Your Bill:"+ bill);
     }
    else if (unitconsumed>=301 && unitconsumed <=500){
       bill = 5.87 * unitconsumed;
       a.setText("Your Bill:"+ bill);
     }
    else if (unitconsumed>=501){
       bill = 7 * unitconsumed;
       a.setText("Your Bill:"+ bill);
     }
    final Handler handler = new Handler();
    handler.postDelayed(new Runnable() {
       @Override
       public void run() {
```

```
Paypage();
           }
         }, 5000);
       }
    });
  }
  public void Paypage(){
    Intent intent = new Intent(this,pay.class);
    startActivity(intent);
  }
}
activity_pay.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=".pay">
  <TextView
    android:id="@+id/bill"
    android:layout_width="323dp"
    android:layout_height="67dp"
    android:layout_marginTop="164dp"
    android:text="PAY YOUR BILL USING:"
    android:textSize="30dp"
    app:layout_constraintEnd_toEndOf="parent"
```

```
app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent" />
  <Button
    android:id="@+id/paybutton1"
    android:layout_width="308dp"
    android:layout_height="74dp"
    android:layout_marginBottom="112dp"
    android:text="CREDIT CARD"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.427"
    app:layout_constraintStart_toStartOf="parent"
    app:layout constraintTop toBottomOf="@+id/paybutton2"
    app:layout_constraintVertical_bias="0.319" />
  <Button
    android:id="@+id/paybutton2"
    android:layout_width="308dp"
    android:layout_height="74dp"
    android:layout_marginTop="68dp"
    android:text="DEBIT CARD"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/bill"/>
</androidx.constraintlayout.widget.ConstraintLayout>
```

pay.java

package com.example.microproject;

import androidx.appcompat.app.AppCompatActivity;

```
import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
public class pay extends AppCompatActivity {
  Button a ,b;
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_pay);
    a = (Button) findViewById(R.id.paybutton1);
    b = (Button) findViewById(R.id.paybutton2);
    a.setOnClickListener(new View.OnClickListener() {
       @Override
       public void onClick(View v) {
         nextPage();
       }
     });
    b.setOnClickListener(new View.OnClickListener() {
       @Override
       public void onClick(View v) {
         nextPage();
       }
     });
  }
  public void nextPage(){
```

```
Intent intent = new Intent(this,portal.class);
     startActivity(intent);
  }
}
```

activity_portal.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=".portal">
  <EditText
    android:id="@+id/cardholder"
    android:layout width="342dp"
    android:layout_height="48dp"
    android:layout_marginTop="64dp"
    android:ems="10"
    android:gravity="center"
    android:hint="Name of the Card"
    android:inputType="textPersonName"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.492"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent" />
  <EditText
```

android:id="@+id/cardnumber"

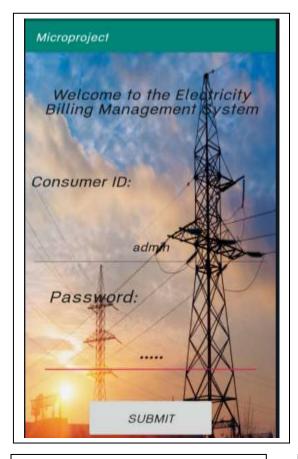
```
android:layout_width="342dp"
  android:layout_height="48dp"
  android:layout_marginTop="48dp"
  android:ems="10"
  android:gravity="center"
  android:hint="Card number"
  android:inputType="textPersonName"
  app:layout_constraintEnd_toEndOf="parent"
  app:layout_constraintHorizontal_bias="0.507"
  app:layout_constraintStart_toStartOf="parent"
  app:layout_constraintTop_toBottomOf="@+id/cardholder"/>
<EditText
  android:id="@+id/cvv"
  android:layout_width="146dp"
  android:layout_height="61dp"
  android:layout_marginTop="64dp"
  android:ems="10"
  android:hint="CVV"
  android:inputType="textPersonName"
  app:layout_constraintEnd_toStartOf="@+id/validupto"
  app:layout_constraintHorizontal_bias="0.397"
  app:layout_constraintStart_toStartOf="parent"
  app:layout_constraintTop_toBottomOf="@+id/cardnumber"/>
<EditText
  android:id="@+id/validupto"
  android:layout_width="146dp"
  android:layout_height="61dp"
  android:layout_marginTop="64dp"
  android:layout_marginEnd="32dp"
  android:ems="10"
  android:gravity="center"
```

```
android:hint="Valid upto year"
    android:inputType="textPersonName"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/cardnumber"/>
  <Button
    android:id="@+id/homeeyy"
    android:layout_width="140dp"
    android:layout_height="46dp"
    android:layout_marginBottom="128dp"
    android:text="Pay"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.498"
    app:layout_constraintStart_toStartOf="parent" />
</androidx.constraintlayout.widget.ConstraintLayout>
Portal.java
package com.example.microproject;
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;
import static android.widget.Toast.LENGTH_SHORT;
public class portal extends AppCompatActivity {
```

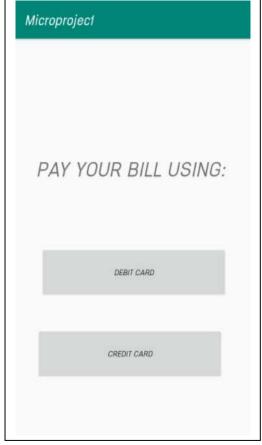
```
Button qw;
  EditText card, CVV, valid;
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_portal);
    card= (EditText)findViewById(R.id.cardnumber);
    CVV= (EditText)findViewById(R.id.cvv);
    valid= (EditText)findViewById(R.id.validupto);
    qw = (Button)findViewById(R.id.homeeyy);
    qw.setOnClickListener(new View.OnClickListener() {
       @Override
      public void onClick(View v) {
         if(card.getText().length()==12
                                            &&
                                                       CVV.getText().length()==3
                                                                                         &&
valid.getText().length()==2){
           Toast.makeText(getApplicationContext(),
                                                        "Payment
                                                                                 Successful",
                                                                       was
Toast.LENGTH_LONG).show();
           homepage();}
         else if(card.getText().length()!=12){
           Toast.makeText(getApplicationContext(),
                                                          "Invalid
                                                                                    number",
                                                                        card
Toast.LENGTH_LONG).show();
         else if(CVV.getText().length()!=3){
           Toast.makeText(getApplicationContext(),
                                                         "Invalid
                                                                        CVV
                                                                                    number",
Toast.LENGTH_LONG).show();
         }
         else if(valid.getText().length()!=2){
```

```
"Invalid
           Toast.makeText(getApplicationContext(),
                                                                                     Year",
Toast.LENGTH_LONG).show();
         }
         else
                if
                     (card.getText().length()==12
                                                   &&
                                                          CVV.getText().length()==3
                                                                                       &&
valid.getText().length()==2){
           Toast.makeText(getApplicationContext(),
                                                                                Successful",
                                                       "Payment
                                                                      was
Toast.LENGTH_LONG).show();
            homepage();
       }
        else{
           Toast.makeText(getApplicationContext(),
                                                     "Payment
                                                                         not
                                                                               Successful",
                                                                  was
Toast.LENGTH_LONG).show();
           homepage();
         }
       }
    });
  }
  public void homepage(){
    Intent intent = new Intent(this,MainActivity.class);
    startActivity(intent);
  }
}
```

Output









Microproject vardhaman 555566661111 455 22 Payment was Successful