ICP Presentation 2

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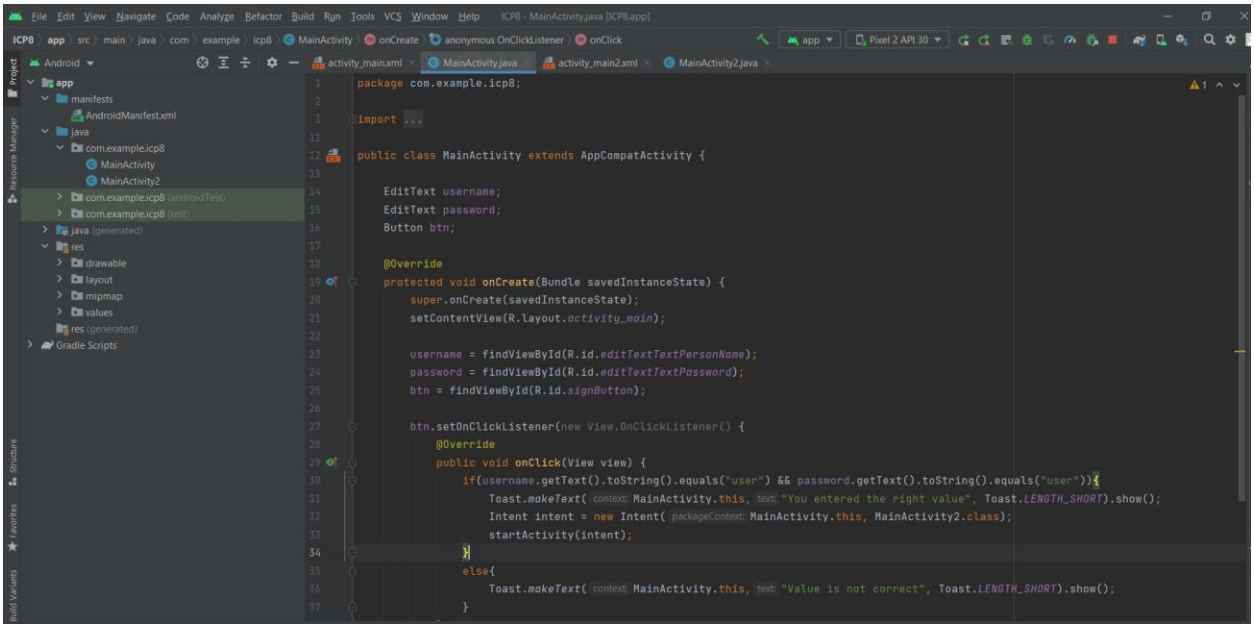
Video Link: https://youtu.be/jCUkF0Y9fM0
Presentation Link:
https://github.com/Affancharolia/WebDevCourse/blob/main/ICP%20Presentation%202/ICP%20Presentation%202.pptx
Github link:
https://github.com/Affancharolia/WebDevCourse/tree/main/ICP%20Presentation%202

ICP 8

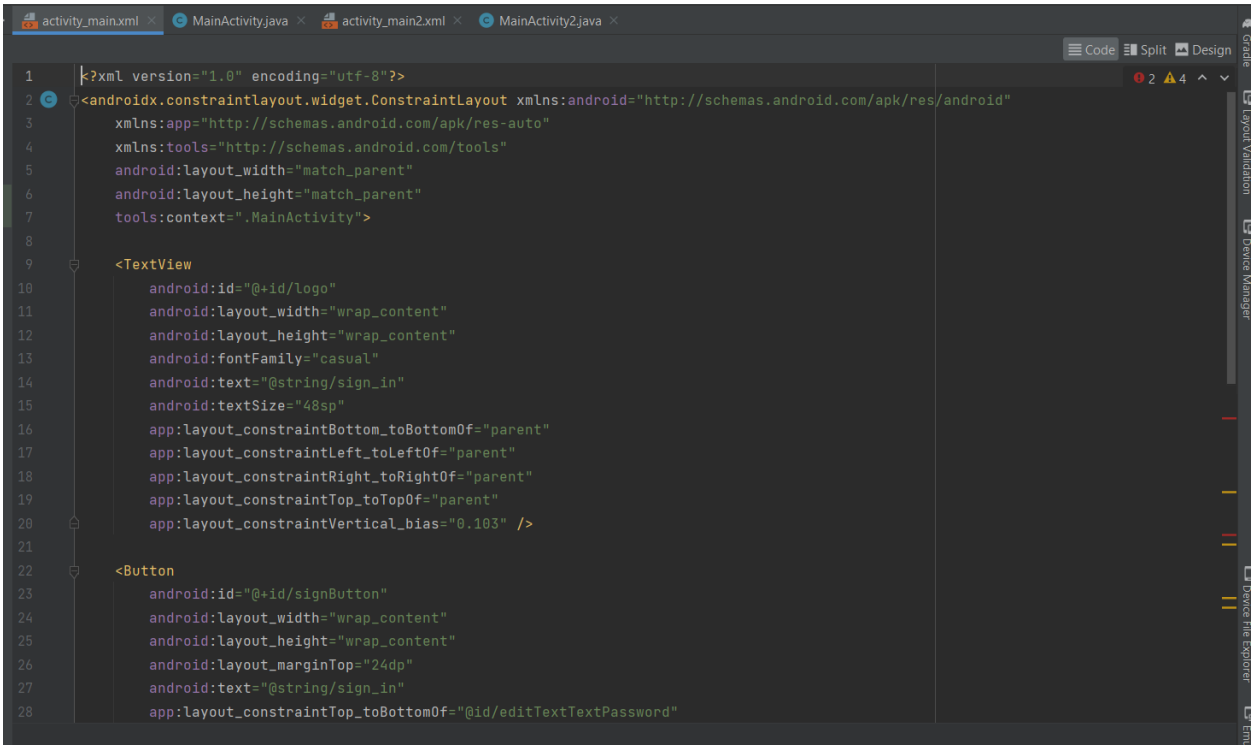
Aim: The goal of this ICP is to create a mobile application, which has the login page and when the user enters login and password as user, they get to the welcome page and when they click on the logout button, they get back to the log in page.

Explanation:

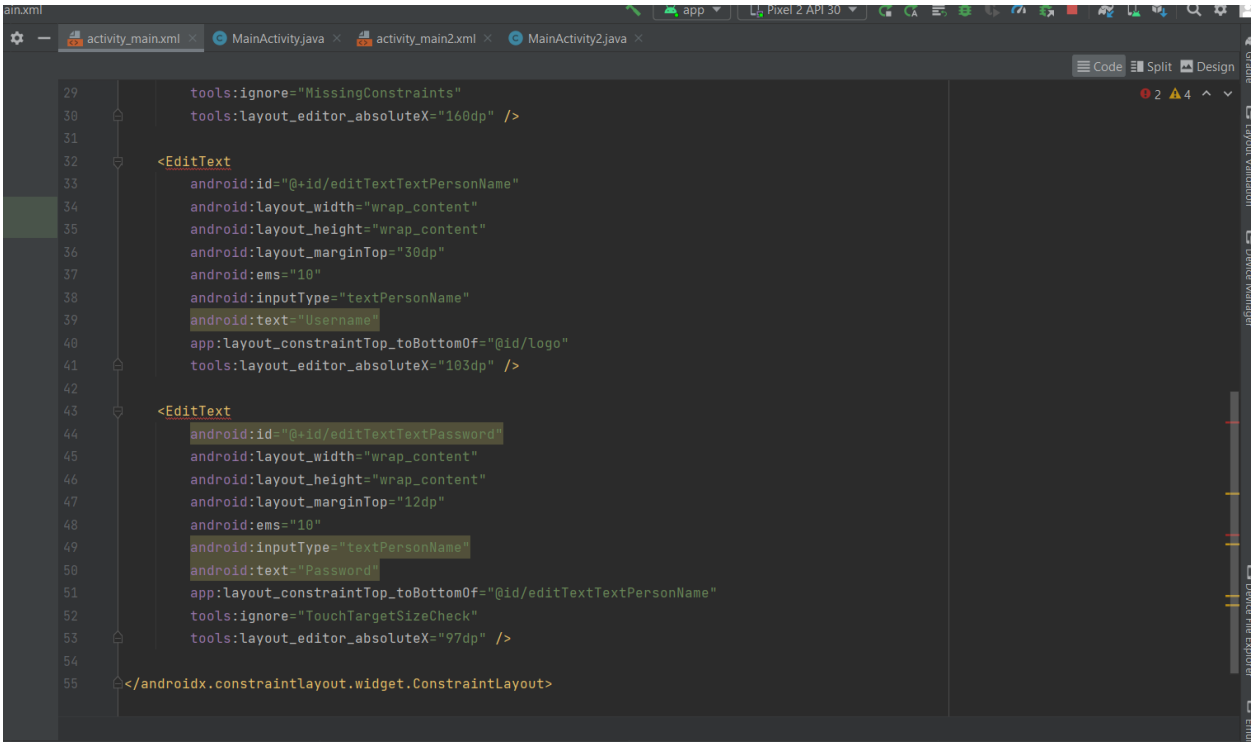


```
package com.example.icp8;

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();
                }
```

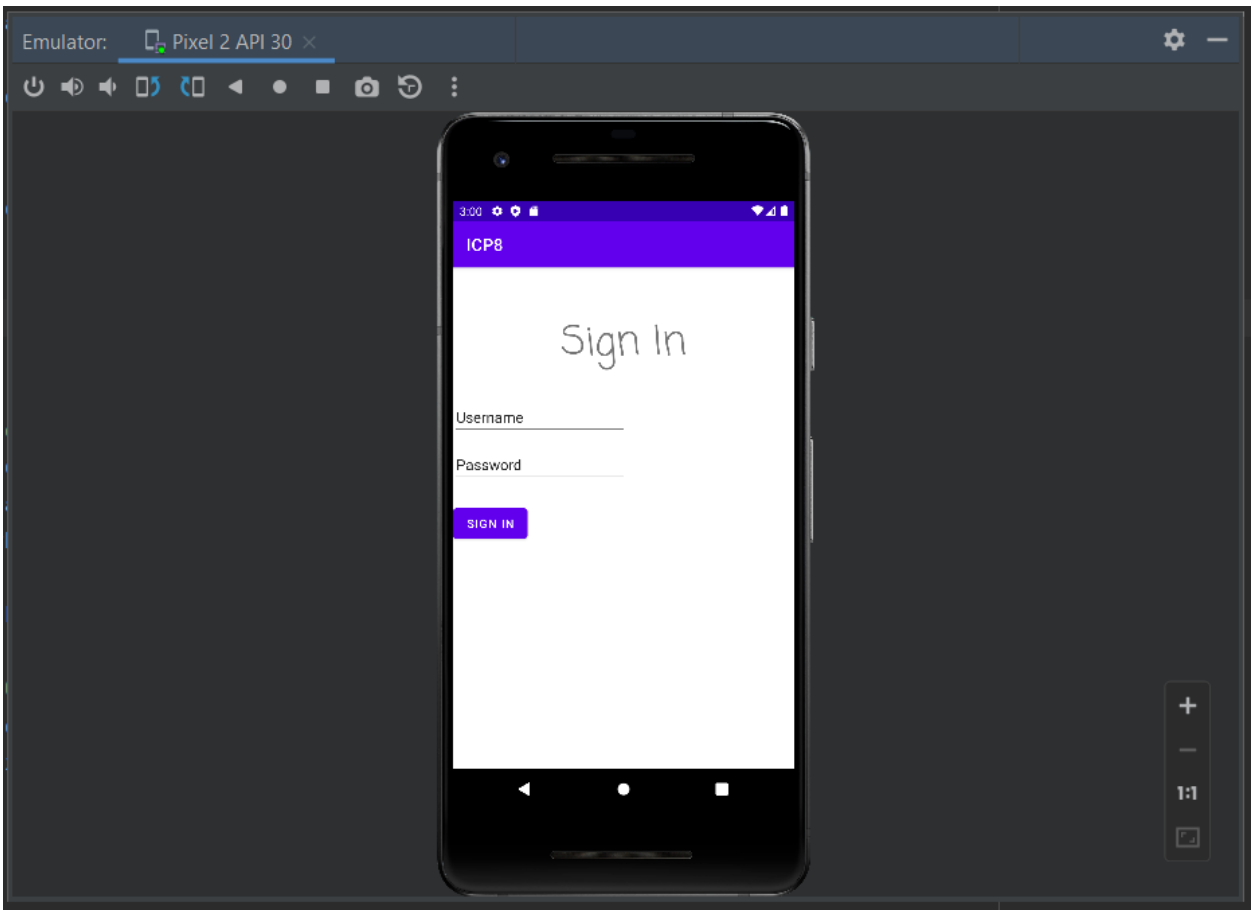
We create the MainActivity.java file to create a view. We create variables and link them to the fields using the id they are being assigned. When the fields are entered and submitted, the strings are matched with the string user and when matched, the toast function displays the title “you are entered 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”.

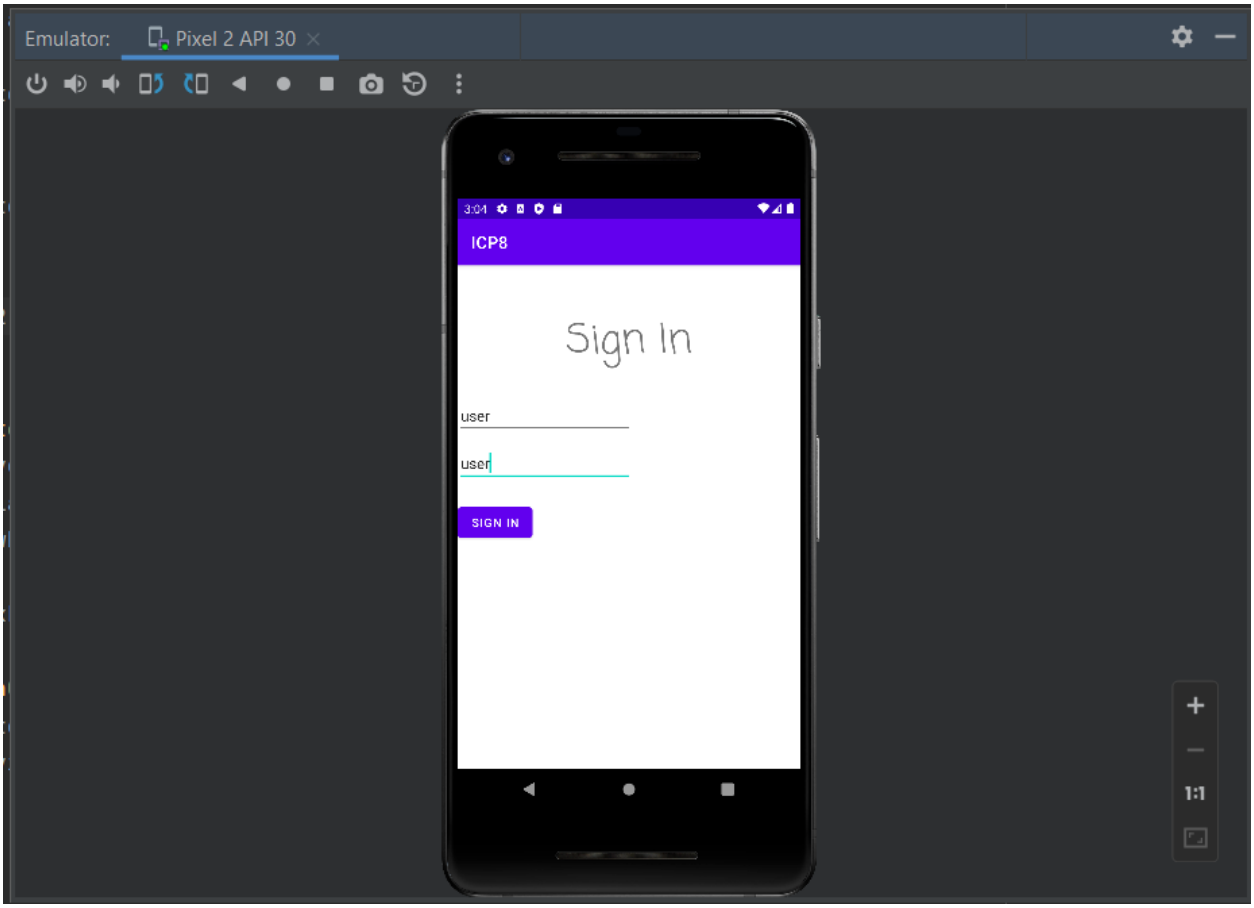


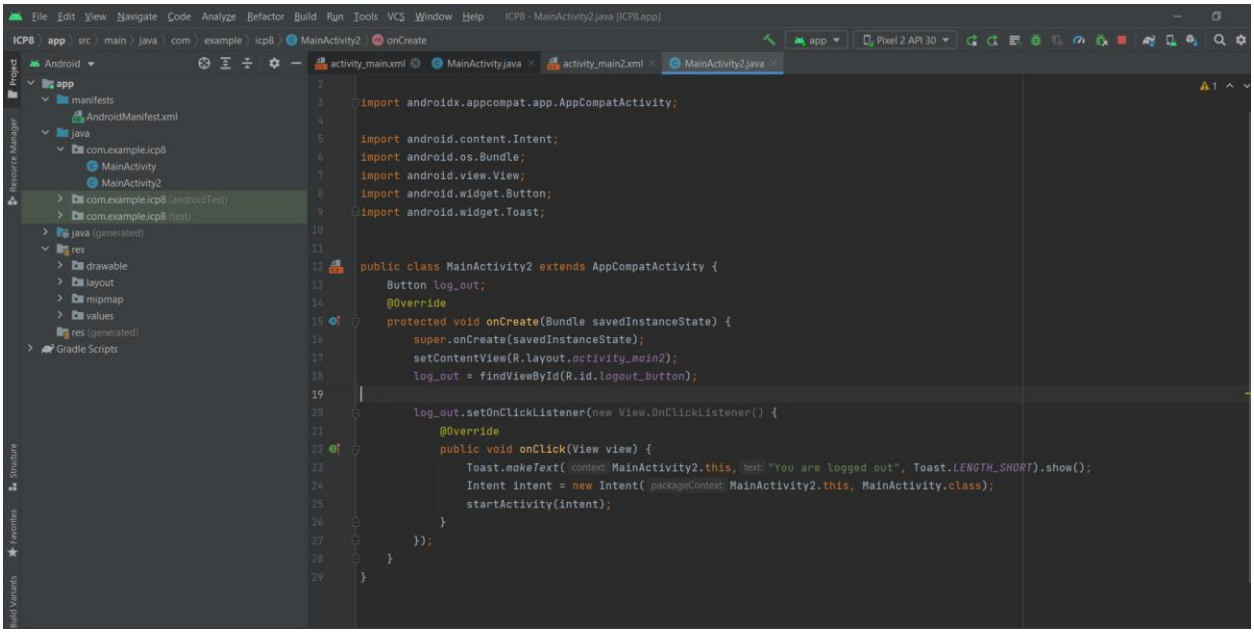
```xml
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"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



```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



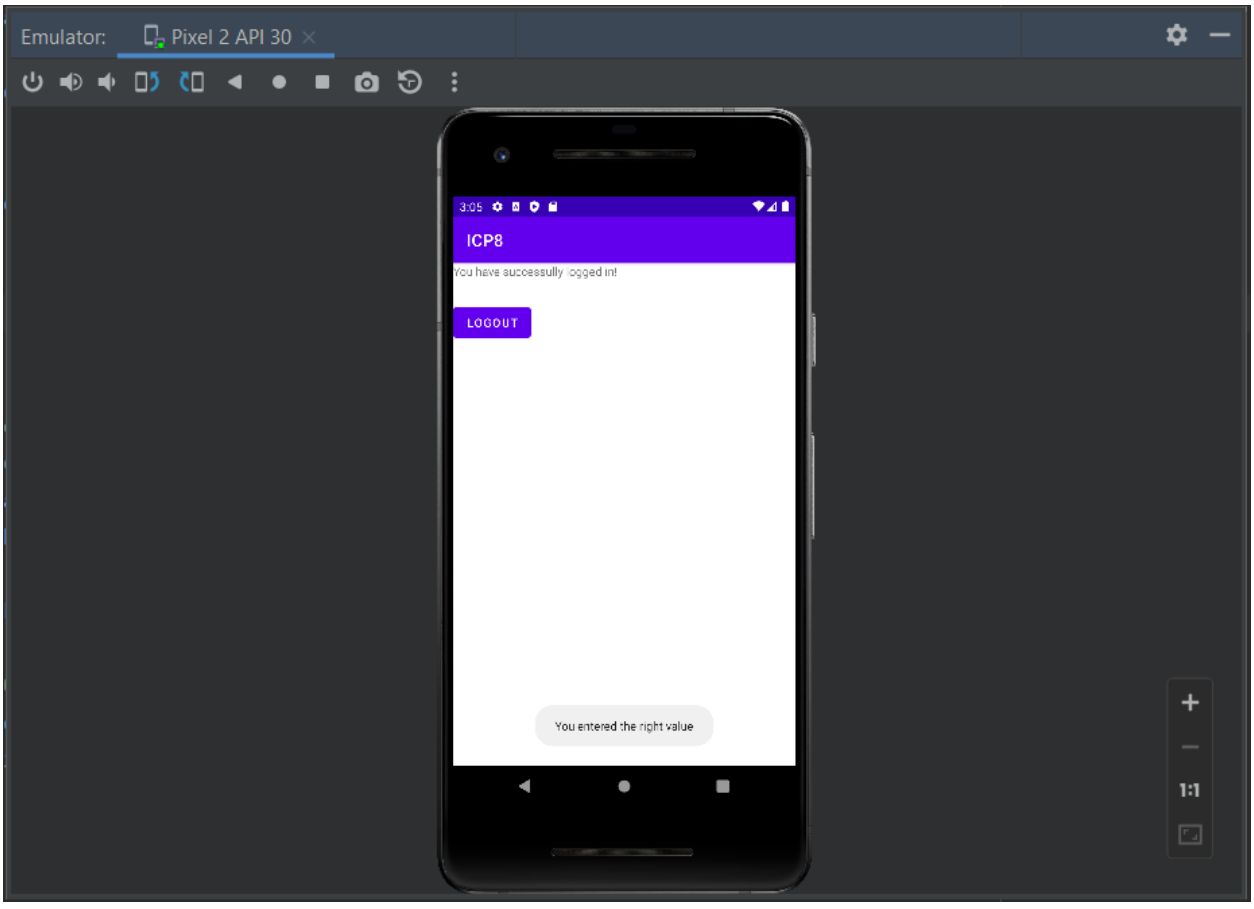


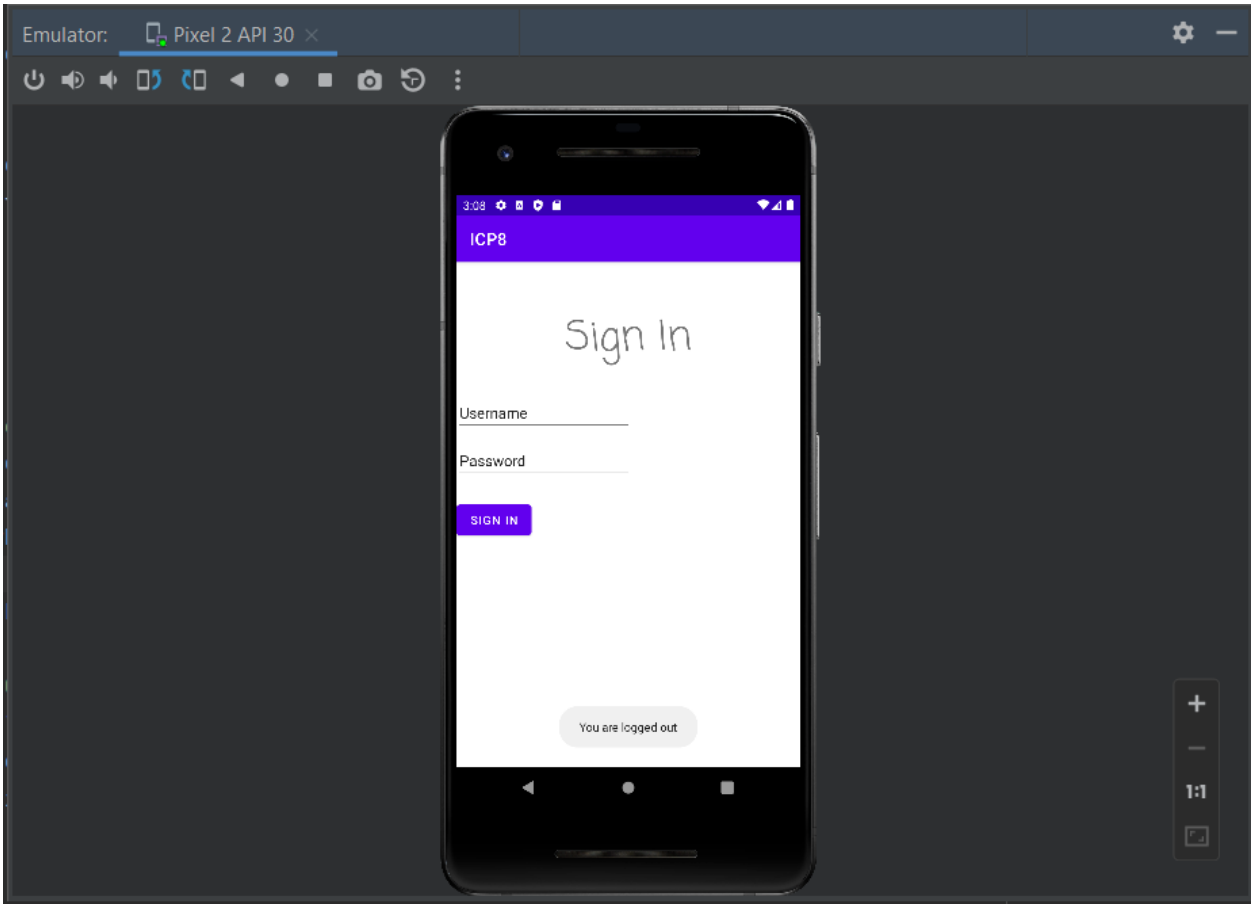
When we get to the welcome page, it displays the string and the logout button. On clicking the logout button we get to the login page again, along with the displayed “You are logged out” string.

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>
```



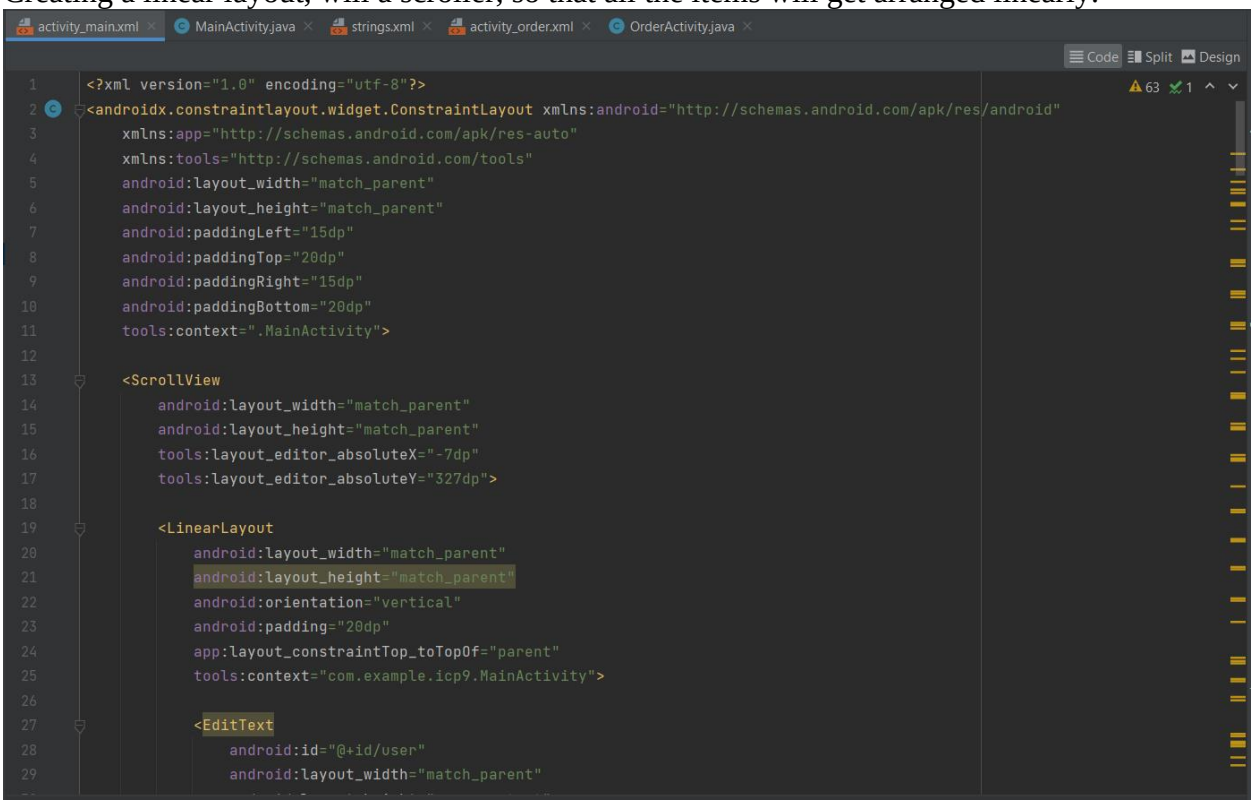


Conclusion: We were able to create a login page which took in the inputs and when successful credentials were entered it took us to the welcome page with correct message being displayed on success and error. Further, on clicking the logout button we were able to go back to the login page with correct message being displayed.

ICP 9

Aim: The goal of this ICP is to create a pizza ordering mobile application which will allow the user to make some selection of their choice and they will be able to see their order summary and place the order which will get sent to them by mail.

Explanation:
Creating a linear layout, will a scroller, so that all the items will get arranged linearly.



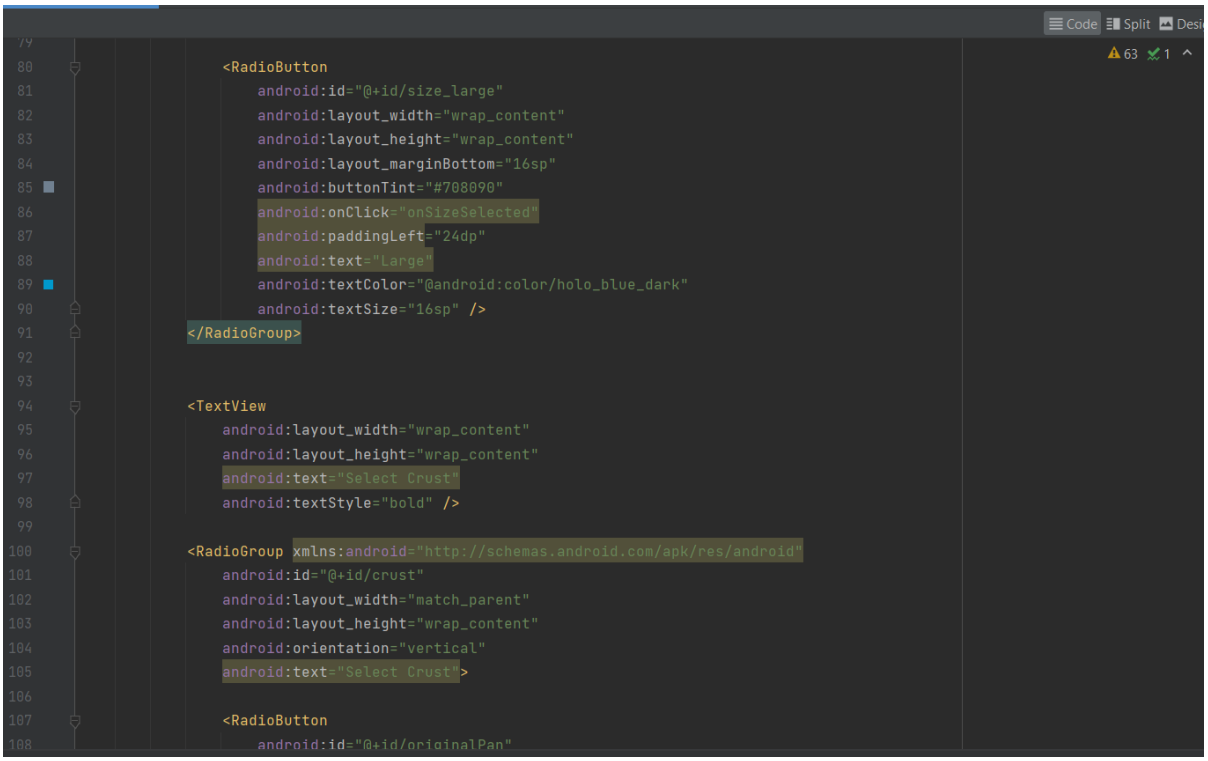
Taking input for username and email address.

```
<EditText
    android:id="@+id/user"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_marginBottom="16sp"
    android:hint="Your Name"
    android:inputType="textCapWords" />

<EditText
    android:id="@+id/email"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_marginBottom="16sp"
    android:hint="Your Email address"
    android:inputType="textCapWords" />


<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Select Pizza Size"
    android:textStyle="bold" />

<RadioGroup xmlns:android="http://schemas.android.com/apk/res/android"
    android:id="@+id/size"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:orientation="vertical">
```

Selecting the size of pizza

```
    <RadioButton
        android:id="@+id/size_small"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginBottom="16sp"
        android:buttonTint="#708090"
        android:onClick="onSizeSelected"
        android:paddingLeft="24dp"
        android:text="Small"
        android:textColor="@android:color/holo_blue_dark"
        android:textSize="16sp" />

    <RadioButton
        android:id="@+id/size_medium"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginBottom="16sp"
        android:buttonTint="#708090"
        android:onClick="onSizeSelected"
        android:paddingLeft="24dp"
        android:text="Medium"
        android:textColor="@android:color/holo_blue_dark"
        android:textSize="16sp" />

    <RadioButton
        android:id="@+id/size_large"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginBottom="16sp"
```

Select the crust of the pizza according to your choice.



```
        <RadioButton
            android:id="@+id/size_large"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:layout_marginBottom="16sp"
            android:buttonTint="#708090"
            android:onClick="onSizeSelected"
            android:paddingLeft="24dp"
            android:text="Large"
            android:textColor="@android:color/holo_blue_dark"
            android:textSize="16sp" />
    </RadioGroup>


    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Select Crust"
        android:textStyle="bold" />

    <RadioGroup xmlns:android="http://schemas.android.com/apk/res/android"
        android:id="@+id/crust"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:orientation="vertical"
        android:text="Select Crust">

        <RadioButton
            android:id="@+id/originalPan"
```

```
    <RadioButton
        android:id="@+id/originalPan"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginBottom="16sp"
        android:buttonTint="#708090"
        android:onClick="onCrustSelected"
        android:paddingLeft="24dp"
        android:text="Original Pan Pizza"
        android:textColor="@android:color/holo_blue_dark"
        android:textSize="16sp" />

    <RadioButton
        android:id="@+id/handmadePan"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginBottom="16sp"
        android:buttonTint="#708090"
        android:onClick="onCrustSelected"
        android:paddingLeft="24dp"
        android:text="Handmade Pan"
        android:textColor="@android:color/holo_blue_dark"
        android:textSize="16sp" />

    <RadioButton
        android:id="@+id/thinNCrispy"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
```

Selecting the topping. Since it is a checkbox, you can select multiple options.

```
        <RadioButton
            android:id="@+id/thinNCrispy"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:layout_marginBottom="16sp"
            android:buttonTint="#708090"
            android:onClick="onCrustSelected"
            android:paddingLeft="24dp"
            android:text="Thin'N Crispy"
            android:textColor="@android:color/holo_blue_dark"
            android:textSize="16sp" />
    </RadioGroup>



    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Toppings"
        android:textStyle="bold" />

    <CheckBox
        android:id="@+id/mushrooms"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginBottom="16sp"
        android:buttonTint="#708090"
        android:paddingLeft="24dp"
        android:text="Mushrooms"
```

```
            android:textColor="@android:color/holo_blue_dark"
            android:textSize="16sp" />

        <CheckBox
            android:id="@+id/pineapple"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:layout_marginBottom="16sp"
            android:buttonTint="#708090"
            android:paddingLeft="24dp"
            android:text="Pineapple"
            android:textColor="@android:color/holo_blue_dark"
            android:textSize="16sp" />

        <CheckBox
            android:id="@+id/cheese"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:layout_marginBottom="16sp"
            android:buttonTint="#708090"
            android:paddingLeft="24dp"
            android:text="Cheese"
            android:textColor="@android:color/holo_blue_dark"
            android:textSize="16sp" />


        <CheckBox
            android:id="@+id/chicken"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
```

The user can select the quantity of pizza they want to order. They can increase or decrease the quantity using the buttons.

```
        android:id="@+id/chicken"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginBottom="16sp"
        android:buttonTint="#708090"
        android:paddingLeft="24dp"
        android:text="Chicken"
        android:textColor="@android:color/holo_blue_dark"
        android:textSize="16sp" />


    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Quantity"
        android:textStyle="bold" />

    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:orientation="horizontal"
        android:paddingLeft="10dp"
        android:paddingRight="10dp">

        <Button
            style="@style/Widget.AppCompat.Button.Colored"
            android:layout_width="48dp"
            android:layout_height="48dp"
            android:layout_marginRight="8dp"
            android:onClick="decrement"
```

The user has two options to select. Either he can view the order summary or submit the order and receive the confirmation in the mail.

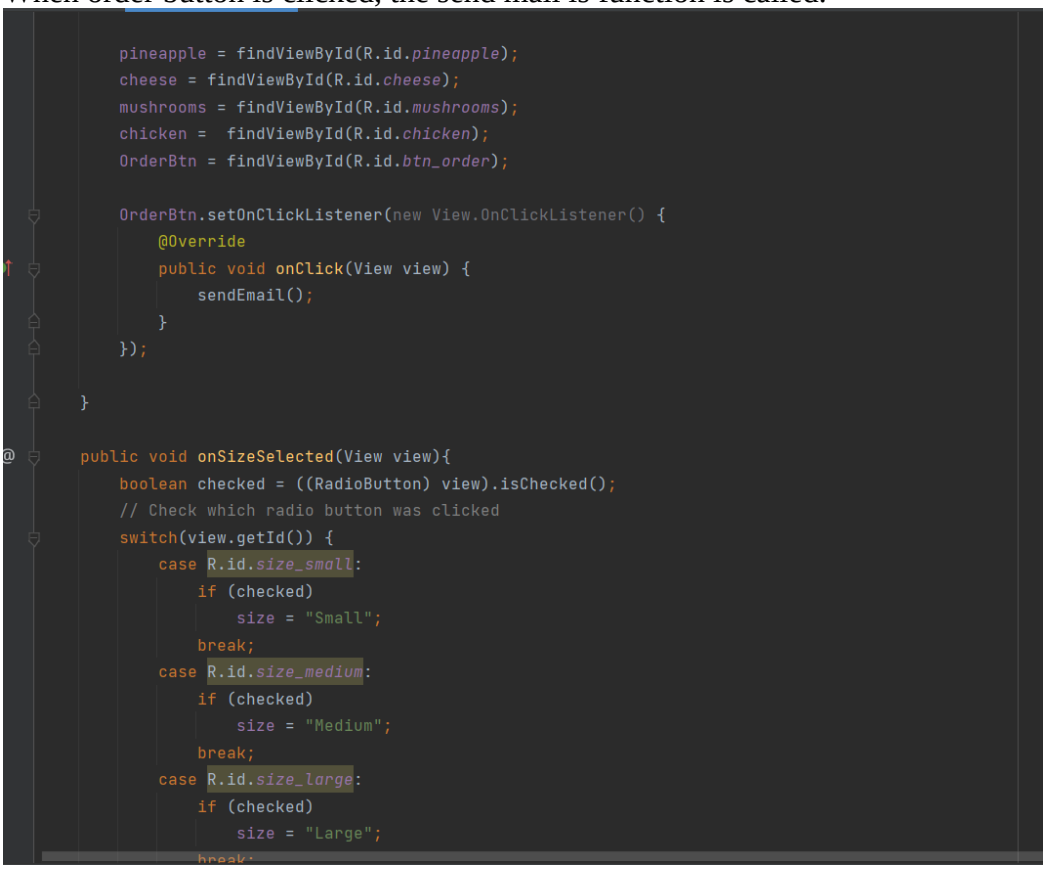
```
            android:layout_height="48dp"
            android:layout_marginRight="8dp"
            android:onClick="decrement"
            android:text="-" />

        <TextView
            android:id="@+id/tv_quantity"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:layout_marginRight="8dp"
            android:text="1" />

        <Button
            style="@style/Widget.AppCompat.Button.Colored"
            android:layout_width="48dp"
            android:layout_height="48dp"
            android:onClick="increment"
            android:text="+" />
    </LinearLayout>

    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="50dp"
        android:orientation="horizontal">

        <Button
            android:id="@+id/btn_order"
            style="@style/Widget.AppCompat.Button"
            android:layout_width="wrap_content"
```

```
            <Button
                android:id="@+id/btn_order"
                style="@style/Widget.AppCompat.Button"
                android:layout_width="wrap_content"
                android:layout_height="50dp"
                android:layout_marginRight="8dp"
                android:text="Order"
                android:textColor="#FFFFFF" />
            */

            <Button
                android:id="@+id/btn_summary"
                android:layout_width="wrap_content"
                android:layout_height="50dp"
                android:onClick="submitOrder"
                android:paddingLeft="10dp"
                android:paddingRight="10dp"
                android:text="View Order Summary"
                android:textColor="#FFFFFF" />
        </LinearLayout>
    </LinearLayout>
</ScrollView>

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

Assigning all the variables based on their configuration, like buttons, checkbox and radio button.

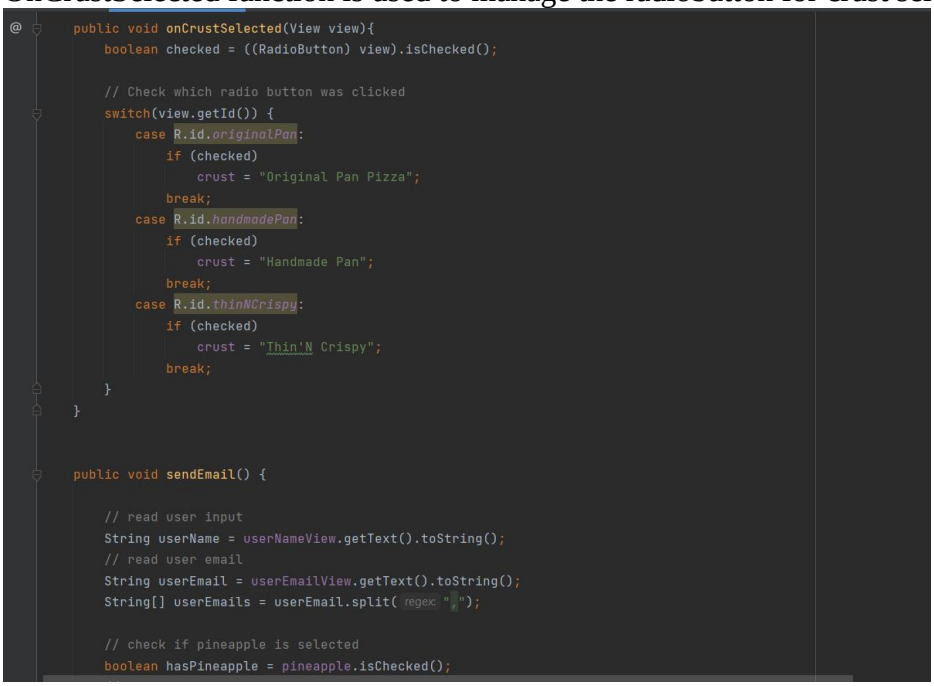
```
package com.example.icp9;

import ...

public class MainActivity extends AppCompatActivity {
    private static final String MAIN_ACTIVITY_TAG = "MainActivity";


    EditText userNameView;
    EditText userEmailView;
    CheckBox cheese;
    CheckBox mushrooms;
    CheckBox chicken;
    CheckBox pineapple;
    Button OrderBtn;
    final int PIZZA_PRICE = 10;
    final int CHEESE_PRICE = 3;
    final int MUSHROOMS_PRICE = 2;
    final int CHICKEN_PRICE = 5;
    final int PINEAPPLE_PRICE = 1;
    String size;
    String crust;
    int quantity = 1;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        userNameView = findViewById(R.id.user);
        userEmailView =  findViewById(R.id.email);

```

When order button is clicked, the send mail is function is called.



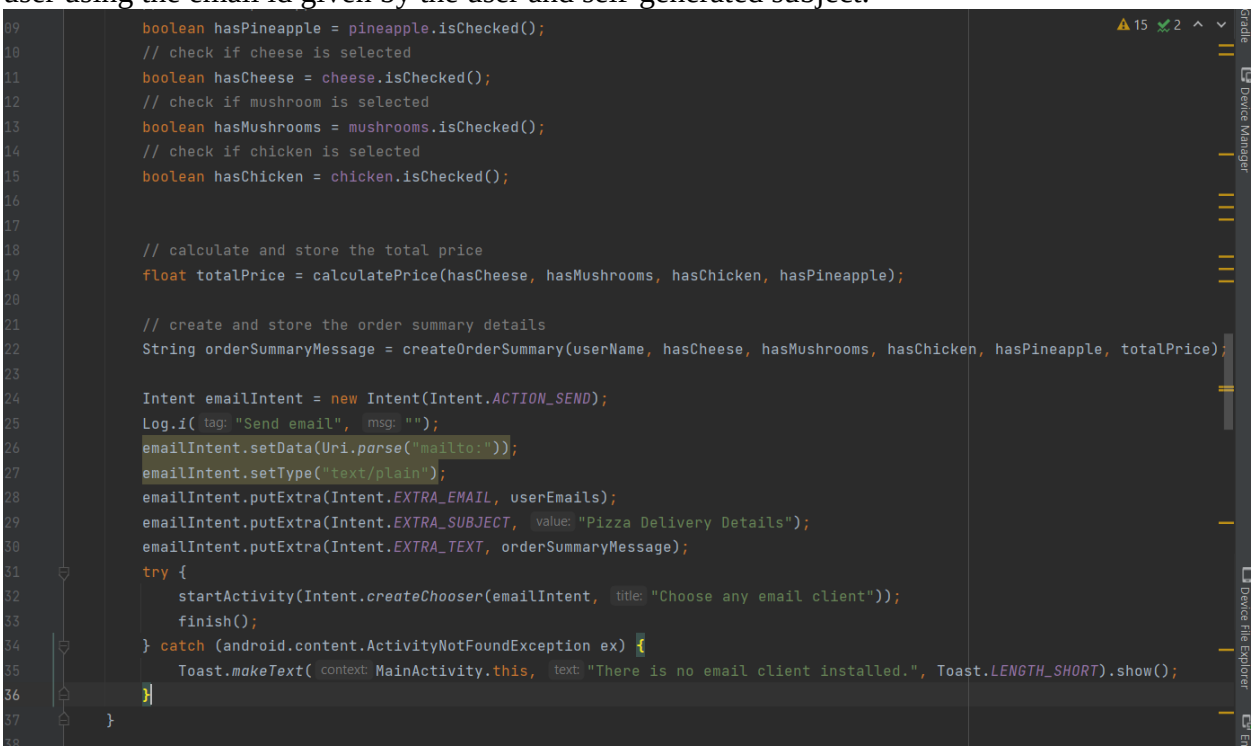
```
        pineapple = findViewById(R.id.pineapple);
        cheese = findViewById(R.id.cheese);
        mushrooms = findViewById(R.id.mushrooms);
        chicken =  findViewById(R.id.chicken);
        OrderBtn = findViewById(R.id.btn_order);

        OrderBtn.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                sendEmail();
            }
        });

    }

    public void onSizeSelected(View view){
        boolean checked = ((RadioButton) view).isChecked();
        // Check which radio button was clicked
        switch(view.getId()) {
            case R.id.size_small:
                if (checked)
                    size = "Small";
                break;
            case R.id.size_medium:
                if (checked)
                    size = "Medium";
                break;
            case R.id.size_large:
                if (checked)
                    size = "Large";
                break;
```

OnCrustSelected function is used to manage the radiobutton for crust selection.



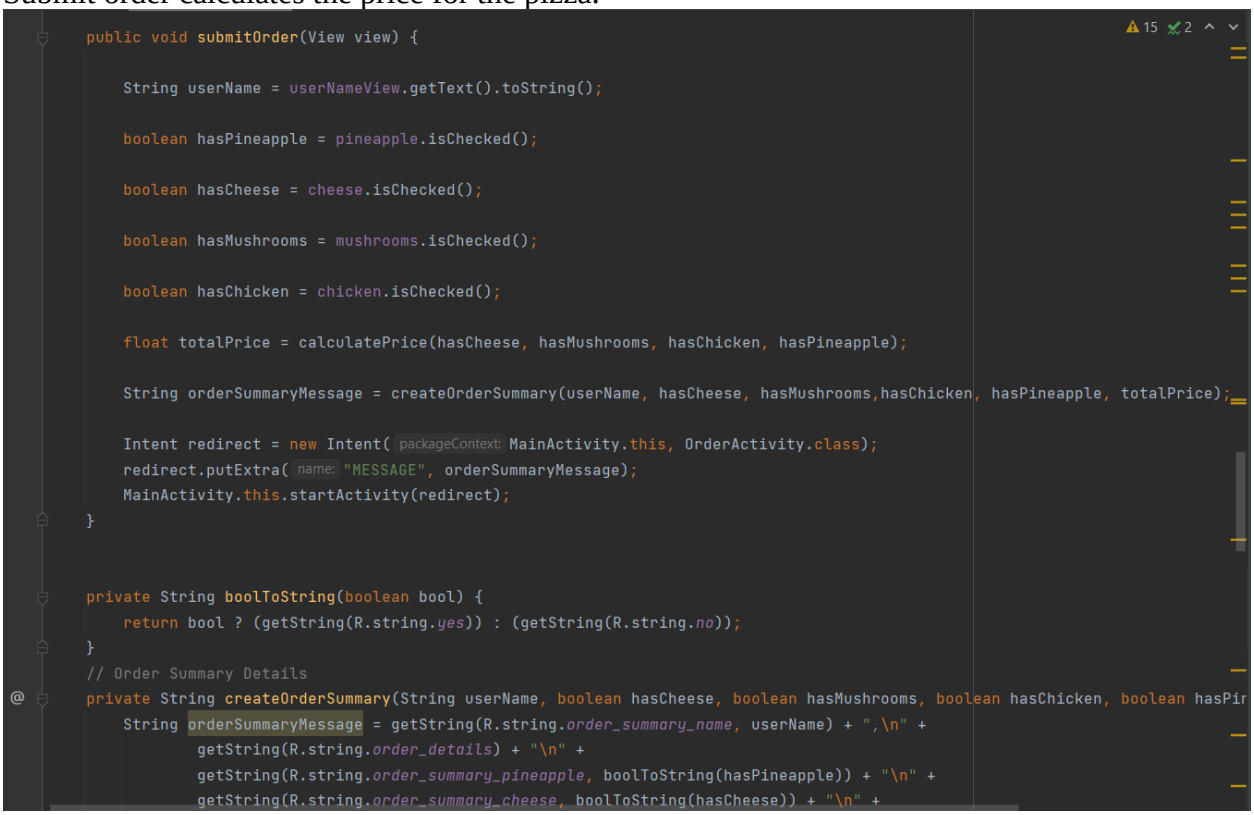
```
    public void onCrustSelected(View view){
        boolean checked = ((RadioButton) view).isChecked();

        // Check which radio button was clicked
        switch(view.getId()) {
            case R.id.originalPan:
                if (checked)
                    crust = "Original Pan Pizza";
                break;
            case R.id.handmadePan:
                if (checked)
                    crust = "Handmade Pan";
                break;
            case R.id.thinNCrispy:
                if (checked)
                    crust = "Thin'N Crispy";
                break;
        }
    }


    public void sendEmail() {

        // read user input
        String userName = userNameView.getText().toString();
        // read user email
        String userEmail = userEmailView.getText().toString();
        String[] userEmails = userEmail.split( regex: ",");

        // check if pineapple is selected
        boolean hasPineapple = pineapple.isChecked();
```

The send email function takes all the ingredients and create the message string using order summary message function and calculates the total amount of the bill and sends the mail to the user using the email id given by the user and self-generated subject.



```
        boolean hasPineapple = pineapple.isChecked();
        // check if cheese is selected
        boolean hasCheese = cheese.isChecked();
        // check if mushroom is selected
        boolean hasMushrooms = mushrooms.isChecked();
        // check if chicken is selected
        boolean hasChicken = chicken.isChecked();


        // calculate and store the total price
        float totalPrice = calculatePrice(hasCheese, hasMushrooms, hasChicken, hasPineapple);

        // create and store the order summary details
        String orderSummaryMessage = createOrderSummary(userName, hasCheese, hasMushrooms, hasChicken, hasPineapple, totalPrice);

        Intent emailIntent = new Intent(Intent.ACTION_SEND);
        Log.i( tag: "Send email",  msg: "");
        emailIntent.setData(Uri.parse("mailto:"));
        emailIntent.setType("text/plain");
        emailIntent.putExtra(Intent.EXTRA_EMAIL, userEmails);
        emailIntent.putExtra(Intent.EXTRA_SUBJECT,  value: "Pizza Delivery Details");
        emailIntent.putExtra(Intent.EXTRA_TEXT, orderSummaryMessage);
        try {
            startActivity(Intent.createChooser(emailIntent,  title: "Choose any email client"));
            finish();
        } catch (android.content.ActivityNotFoundException ex) {
            Toast.makeText( context: MainActivity.this,  text: "There is no email client installed.", Toast.LENGTH_SHORT).show();
        }
    }
```

Submit order calculates the price for the pizza.



```
public void submitOrder(View view) {

    String userName = userNameView.getText().toString();

    boolean hasPineapple = pineapple.isChecked();

    boolean hasCheese = cheese.isChecked();

    boolean hasMushrooms = mushrooms.isChecked();

    boolean hasChicken = chicken.isChecked();

    float totalPrice = calculatePrice(hasCheese, hasMushrooms, hasChicken, hasPineapple);

    String orderSummaryMessage = createOrderSummary(userName, hasCheese, hasMushrooms,hasChicken, hasPineapple, totalPrice);

    Intent redirect = new Intent( packageContext: MainActivity.this, OrderActivity.class);
    redirect.putExtra( name: "MESSAGE", orderSummaryMessage);
    MainActivity.this.startActivity(redirect);
}


private String boolToString(boolean bool) {
    return bool ? (getString(R.string.yes)) : (getString(R.string.no));
}
// Order Summary Details
private String createOrderSummary(String userName, boolean hasCheese, boolean hasMushrooms, boolean hasChicken, boolean hasPir
    String orderSummaryMessage = getString(R.string.order_summary_name, userName) + ",\n" +
            getString(R.string.order_details) + "\n" +
            getString(R.string.order_summary_pineapple, boolToString(hasPineapple)) + "\n" +
            getString(R.string.order_summary_cheese, boolToString(hasCheese)) + "\n" +
```

```
    String orderSummaryMessage = getString(R.string.order_summary_name, userName) + ",\n" +
            getString(R.string.order_details) + "\n" +
            getString(R.string.order_summary_pineapple, boolToString(hasPineapple)) + "\n" +
            getString(R.string.order_summary_cheese, boolToString(hasCheese)) + "\n" +
            getString(R.string.order_summary_mushrooms, boolToString(hasMushrooms)) + "\n" +
            getString(R.string.order_summary_chicken, boolToString(hasChicken)) + "\n" +
            "Crust?" + crust + "\n"+
            "Size?" + size + "\n" +
            getString(R.string.order_summary_quantity, quantity) + "\n" +
            getString(R.string.order_summary_total_price, price) + "\n" +
            getString(R.string.thank_you);
    return orderSummaryMessage;
}

/**
 * Method to calculate the total price
 *
 * @return total Price
 */
private float calculatePrice(boolean hasCheese, boolean hasMushrooms, boolean hasChicken, boolean hasPineapple) {
    int basePrice = PIZZA_PRICE;
    if (hasCheese) {
        basePrice += CHEESE_PRICE;
    }
    if (hasMushrooms) {
        basePrice += MUSHROOMS_PRICE;
    }
    if (hasChicken) {
        basePrice += CHICKEN_PRICE;
    }
    if (hasPineapple) {
```

Increment and decrement function is used to increase or decrease the quantity of pizza.

```
    if (hasPineapple) {
        basePrice += PINEAPPLE_PRICE;
    }
    return quantity * basePrice;
}

/**
 * This method displays the given quantity value on the screen.
 */
private void display(int number) {
    TextView quantityTextView = (TextView) findViewById(R.id.tv_quantity);
    quantityTextView.setText("" + number);
}

/**
 * This method increments the quantity of coffee cups by one
 *
 * @param view on passes the view that we are working with to the method
 */

public void increment(View view) {
    if (quantity < 100) {
        quantity = quantity + 1;
        display(quantity);
    } else {
        Log.i( tag: "MainActivity",  msg: "Please select less than one hundred pizza");
        Context context = getApplicationContext();
        String lowerLimitToast = getString(R.string.too_much_coffee);
        int duration = Toast.LENGTH_SHORT;
        Toast toast = Toast.makeText(context, lowerLimitToast, duration);
```

```
        Log.i( tag: "MainActivity",  msg: "Please select less than one hundred pizza");
        Context context = getApplicationContext();
        String lowerLimitToast = getString(R.string.too_much_coffee);
        int duration = Toast.LENGTH_SHORT;
        Toast toast = Toast.makeText(context, lowerLimitToast, duration);
        toast.show();
        return;
    }
}


public void decrement(View view) {
    if (quantity > 1) {
        quantity = quantity - 1;
        display(quantity);
    } else {
        Log.i( tag: "MainActivity",  msg: "Please select atleast one pizza");
        Context context = getApplicationContext();
        String upperLimitToast = getString(R.string.too_little_coffee);
        int duration = Toast.LENGTH_SHORT;
        Toast toast = Toast.makeText(context, upperLimitToast, duration);
        toast.show();
        return;
    }
}
}
```

This is the new activity page which shows the order summary and a button to go back to the main page.

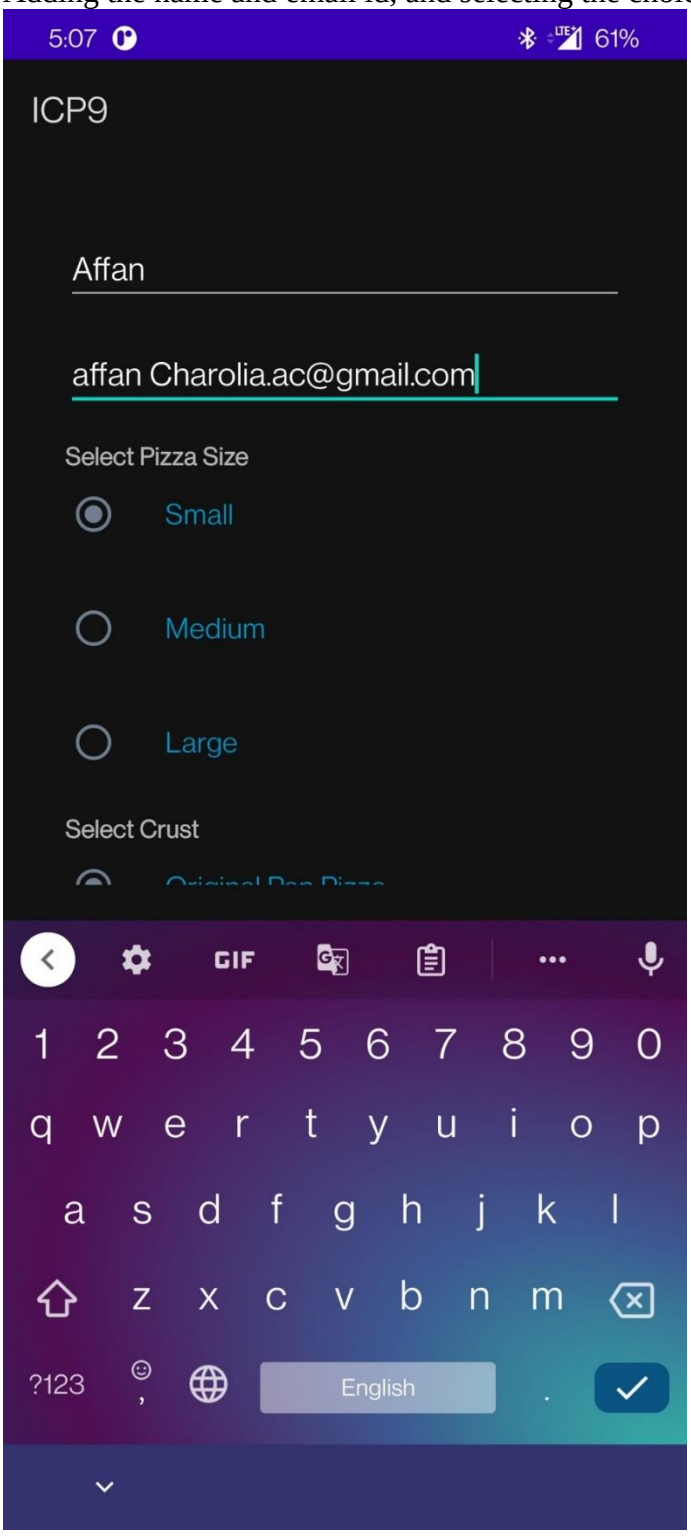
```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout xmlns:android="http://schemas.an
xmlns:app="http://schemas.android.com/apk/res-auto"
xmlns:tools="http://schemas.android.com/tools"
android:id="@+id/order"
android:layout_width="match_parent"
android:layout_height="match_parent"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

<TextView
    android:id="@+id/Ordertxt"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginTop="74dp"
    android:text="Order Summary"
    android:textSize="25sp"
    android:textStyle="bold"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.497"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent" />

<TextView
    android:id="@+id/Details"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginTop="15dp"
    android:text="Details"
    android:textSize="20sp"
```

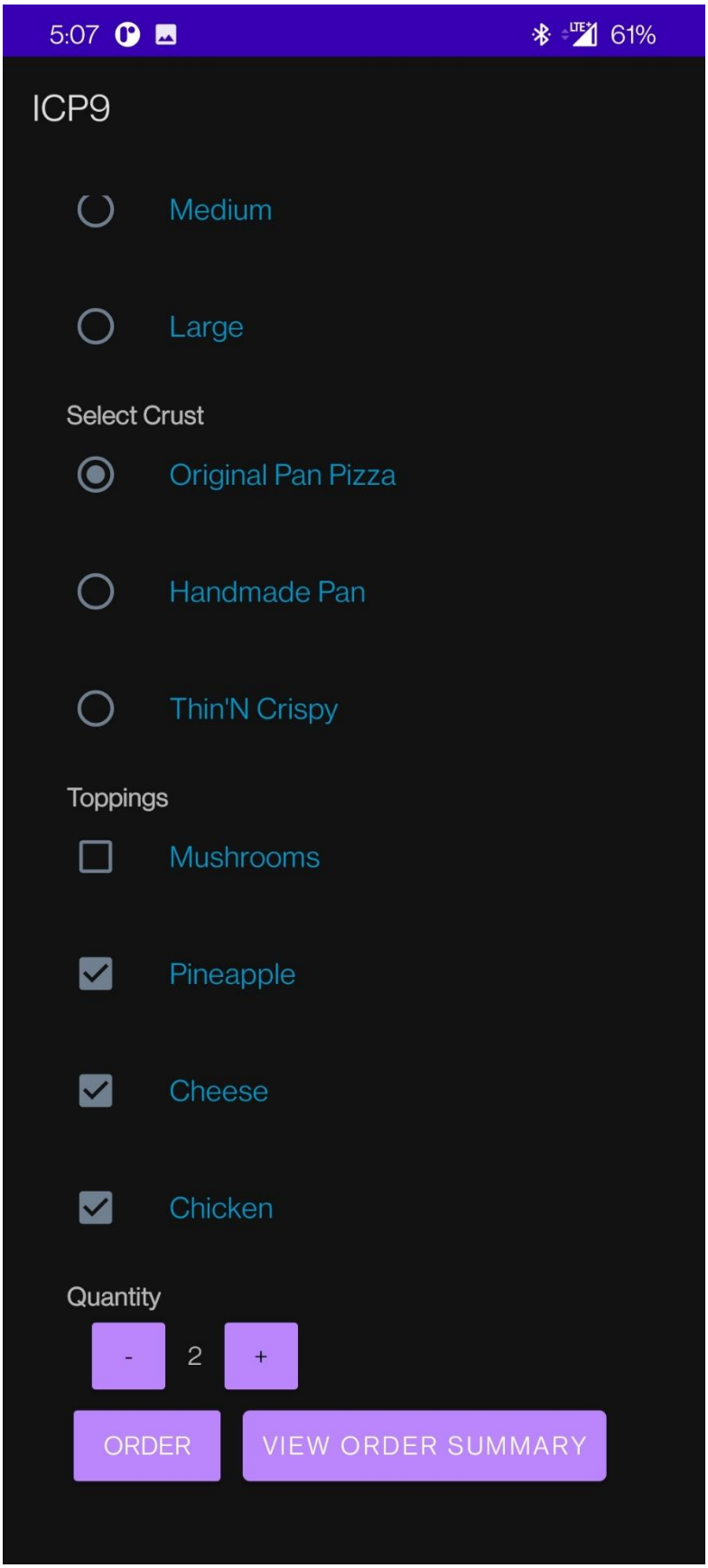
```
    android:layout_height="wrap_content"
    android:layout_marginTop="15dp"
    android:text="Details"
    android:textSize="20sp"
    android:textStyle="italic"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/Ordertxt" />

<Button
    android:id="@+id/BackToOrder"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginTop="32dp"
    android:text="Go to Order"
    android:padding="15dp"
    android:onClick="onClick"
    android:textColor="#FFFFFF"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.181"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/Details" />

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

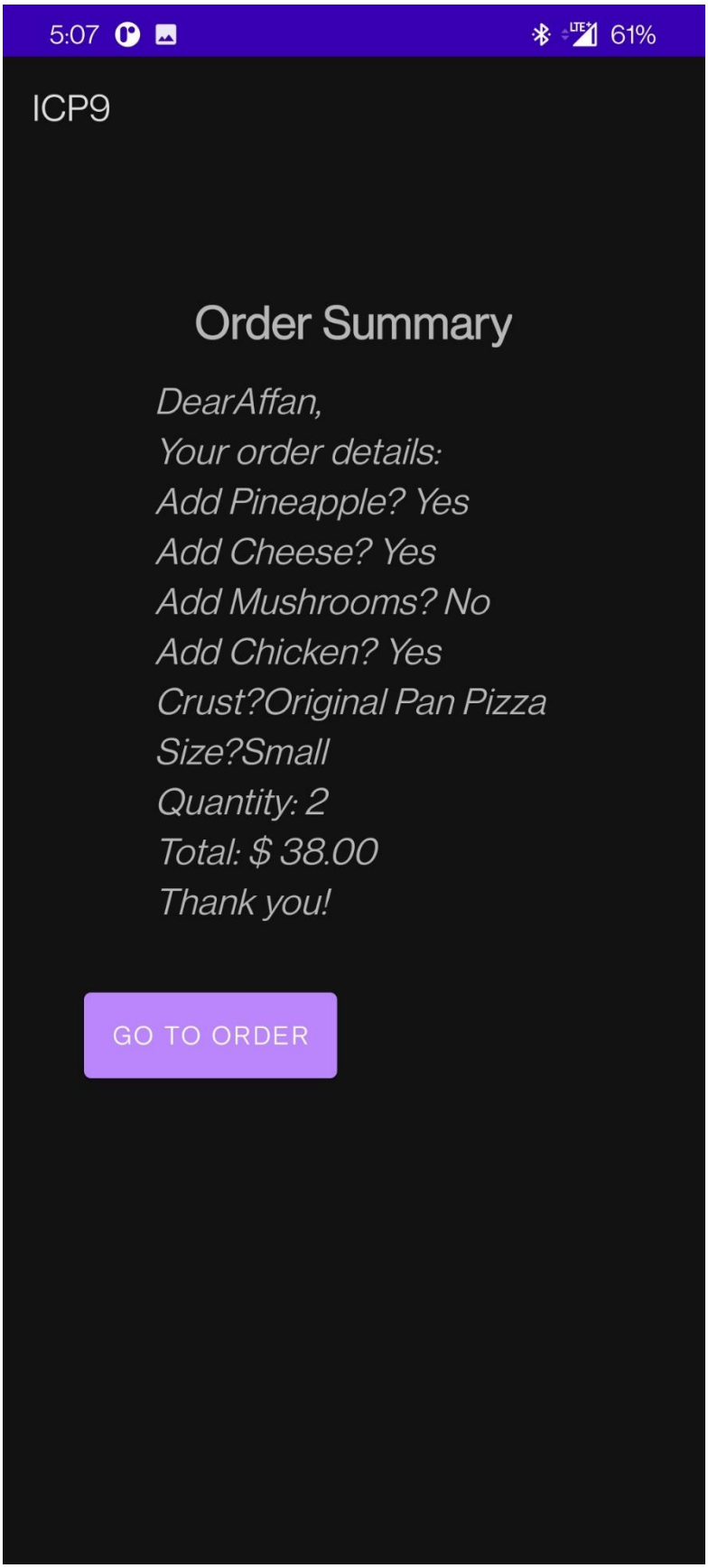
This page displays the order summary and on clicking the go to the order button, goes back to the main page.

```java
package com.example.icp9;

        import androidx.appcompat.app.AppCompatActivity;

        import android.content.Intent;
        import android.os.Bundle;
        import android.view.View;
        import android.widget.Button;
        import android.widget.TextView;

public class OrderActivity extends AppCompatActivity {
    TextView Details;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_order);
        Details = (TextView)findViewById(R.id.Details);

        Details.setText(getIntent().getStringExtra( name: "MESSAGE"));
    }
    public void onClick(View view) {
        finish();
    }
}
```

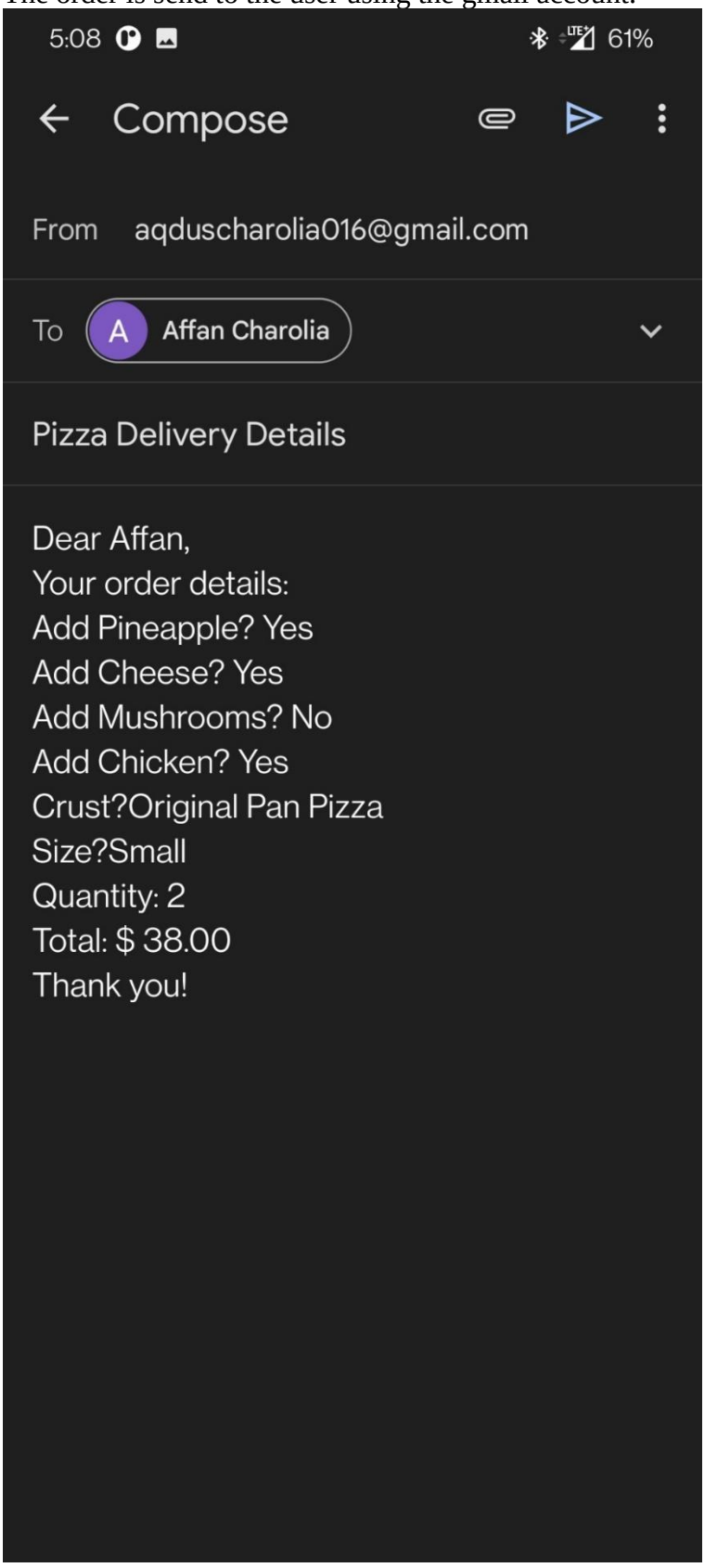
Adding the name and email id, and selecting the choice of pizza you want to have.




5:07
61%
ICP9
Medium
Large
Select Crust
Original Pan Pizza
Handmade Pan
Thin'N Crispy
Toppings
Mushrooms
Pineapple
Cheese
Chicken
Quantity
-
2
+
ORDER
VIEW ORDER SUMMARY


5:07
61%
ICP9
Order Summary
DearAffan,
Your order details:
Add Pineapple? Yes
Add Cheese? Yes
Add Mushrooms? No
Add Chicken? Yes
Crust?Original Pan Pizza
Size?Small
Quantity: 2
Total: $ 38.00
Thank you!
GO TO ORDER

The order is send to the user using the gmail account.



Conclusion: We were able to create pizza ordering application where you can select the things you need on it and the quantity of pizza. Then the selections were displayed on the summary page along with the cost. The order placed is then sent to the user by email.