ICP 9

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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.

```
| Code | Spill | Code | Code | Code | Spill | Code | Code
```

Selecting the size of pizza

Select the crust of the pizza according to your choice.

```
RadioButton

android:id="0+id/size_large"
android:layout_width="wrap_content"
android:layout_might="wrap_content"
android:layout_might="wrap_content"
android:layout_might="wrap_content"
android:layout_might="wrap_content"
android:layout_might="wrap_content"
android:layout_might="wrap_content"
android:text="large"
android:textculor="@android:color/holo_blue_dark"
android:textsulor="@android:color/holo_blue_dark"
android:textsulor="@android:color/holo_blue_dark"
android:textsulor="dandroid:textsulor="dandroid:textsulor="dandroid:textsulor="dandroid:textsulor="dandroid:textsulor="dandroid:textsulor="dandroid:textsulor="dandroid:textsulor="dandroid:textsulor="dandroid:textsulor="dandroid:textsulor="dandroid:textsulor="dandroid:textsulor="dandroid:textsulor="dandroid:textsulor="dandroid:textsulor="dandroid:textsulor="dandroid:textsulor="dandroid:textsulor="dandroid:textsulor="dandroid:textsulor="dandroid:textsulor="dandroid:textsulor="dandroid:textsulor="dandroid:textsulor="dandroid:textsulor="dandroid:textsulor="dandroid:textsulor="dandroid:textsulor="dandroid:textsulor="dandroid:textsulor="dandroid:textsulor="dandroid:textsulor="dandroid:textsulor="dandroid:textsulor="dandroid:textsulor="dandroid:textsulor="dandroid:textsulor="dandroid:textsulor="dandroid:textsulor="dandroid:textsulor="dandroid:textsulor="dandroid:textsulor="dandroid:textsulor="dandroid:textsulor="dandroid:textsulor="dandroid:textsulor="dandroid:textsulor="dandroid:textsulor="dandroid:textsulor="dandroid:textsulor="dandroid:textsulor="dandroid:textsulor="dandroid:textsulor="dandroid:textsulor="dandroid:textsulor="dandroid:textsulor="dandroid:textsulor="dandroid:textsulor="dandroid:textsulor="dandroid:textsulor="dandroid:textsulor="dandroid:textsulor="dandroid:textsulor="dandroid:textsulor="dandroid:textsulor="dandroid:textsulor="dandroid:textsulor="dandroid:textsulor="dandroid:textsulor="dandroid:textsulor="dandroid:textsulor="dandroid:textsulor="dandroid:textsulor="dandroid:textsulor="dandroid:textsulor="dandroid:textsulor="dandroid:textsulor="da
```

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

```
<
```

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

quantity using the buttons.

```
android:ld="@+ld/chicken"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_marginBottom="l6sp"
android:buttonfint="#788899"
android:paddingLeft="24dp"
android:textColor="@android:color/holo_blue_dark"
android:textColor="@android:color/holo_blue_dark"
android:textSize="l6sp" />

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

<LinearLayout
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:layout_height="wrap_content"
android:orientation="horizontal"
android:paddingLeft="l8dp"
android:paddingRight="18dp"

<Button

style="@style/Widget.AppCompat.Button.Colored"
android:layout_height="#8dp"
```

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_marginRight="8dp"
android:layout_marginRight="8dp"
android:layout_marginRight="8dp"
android:de="de=rement"
android:ld="@+id/tv_quantity"
android:layout_width="wrap_content"
android:layout_marginRight="8dp"
android:layout_marginRight="8dp"
android:layout_marginRight="8dp"
android:layout_width="48dp"
android:layout_width="48dp"
android:layout_width="48dp"
android:layout_height="48dp"
android:layout_height="48dp"
android:layout_height="48dp"
android:layout_beight="48dp"
android:layout_width="match_parent"
android:layout_width="match_parent"
android:layout_width="bdop"
android:layout_width="bdop"
android:layout_width="bdop"
android:layout_width="bdop"
android:layout_width="bdop"
android:layout_width="bdop"
android:layout_width="bdop"
style="@style/Widget.AppCompat.Button"
android:layout_width="wrap_content"
```

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

```
public class MainActivity extends AppCompatActivity {
    private static final String MAIN_ACTIVITY_TA8 = "MainActivity";

    EditText userNameView;
    EditText userNameView;
    CheckBox cheese;
    CheckBox chicken;
    CheckBox chicken;
    CheckBox pineapple;
    Button OrderBot;
    final int PIZZA_PRICE = 10;
    final int CHESE_PRICE = 3;
    final int CHESE_PRICE = 2;
    final int CHICKEN_PRICE = 5;
    final int PINEAPPLE_PRICE = 1;
    String size;
    String size;
    String crust;
    int quantity = 1;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super_onCreate(savedInstanceState);
        setContentView(R.layout.activity_nain);
        userEmailView = findViewById(R.id.email);

    userEmailView = findViewById(R.id.email);
```

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

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

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 hasCheese = mushrooms.isChecked();

// check if chicken is selected

boolean hasChicken = chicken.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(lag: "Send email", 'msg: "");

emailIntent.setOata(Uri.parse("mailto:"));

emailIntent.setOata(Uri.parse("mailto:"));

emailIntent.putExtra(Intent.EXTRA_IEXT, userEmails);

emailIntent.putExtra(Intent.EXTRA_IEXT, orderSummaryMessage);

try {

startActivity(Intent.createChooser(emailIntent, Utle: "Choose any email client"));

finish();
} catch (android.content.ActivityNotFoundException ex) {

Toast.makeText(content MainActivity.this, lext "There is no email client installed.", Toast.LENGTH_SHORT).show();

Submit order calculates the price for the pizza.

```
public void subsitOrder(View view) {

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

boolean hasPineapple = pineapple.isChecked();

boolean hasCheese = cheese.isChecked();

boolean hasChicken = chicken.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.ges)) : (getString(R.string.no));
}

// Order Summary Details
private String createOrderSummary(String userName, boolean hasCheese, boolean hasMushrooms, boolean hasChicken, boolean hasPineapple);

String orderSummaryMessage = getString(R.string.order_summary_name, userName) + ",\n" +
    getString(R.string.order_details) + "\n" +
    getString(R.string.order_genergple, boolToString(hasPineapple)) + "\n" +
    getString(R.string.order_genergple, boolToString(hasPineapple)) + "\n" +
    getString(R.string.order_genergple, boolToString(hasPineapple)) + "\n" +
```

```
String manayMessage = getString(R.string.order_summary_name, userName) + ",\n" +
    getString(R.string.order_details) + "\n" +
    getString(R.string.order_summary_netaepple, boolToString(hasPineapple)) + "\n" +
    getString(R.string.order_summary_netaepple, boolToString(hasPineapple)) + "\n" +
    getString(R.string.order_summary_netaepple, boolToString(hasRushrooms)) + "\n" +
    getString(R.string.order_summary_netaepple) + "\n" +
    getString(R.string.order_summary_netaepple) + "\n" +
    getString(R.string.order_summary_total_price, price) + "\n" +
    getString(R.strin
```

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

* * * * This method increments the quantity of coffee cups by one

* * * * @garam view on passes the view that we are working with to the method

*/

public void increment(View view) {
    if (quantity = quantity + 1;
        display(quantity);
} else {
        Log.i( lag "MainActivity", lag "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.1( leg. mainactivity, mag. Presase select tess than one numbred 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();
neturn;
}

public void decrement(View view) {
    if (quantity > 1) {
        quantity = quantity - 1;
        display(quantity);
} else {
        Log.1( leg: "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.

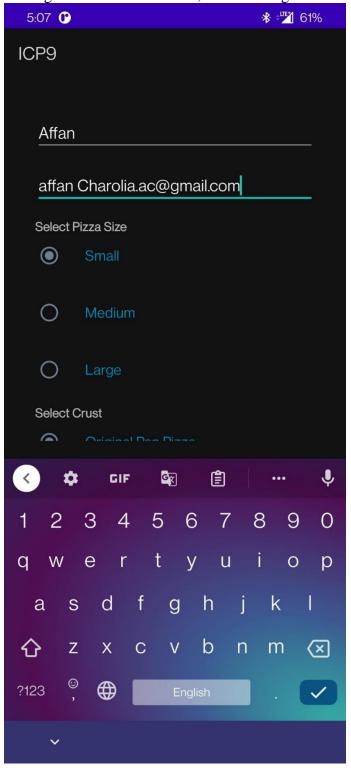
```
<?xml version="1.0" encoding="utf-8"?>
                                                                         A4 × 2 ^
<androidx.constraintlayout.widget.ConstraintLayout xmlns:android="http://schemas.ar</pre>
android:layout_width="match_parent"
android:layout_height="match_parent"
<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginTop="74dp"
    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:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginTop="15dp"
```

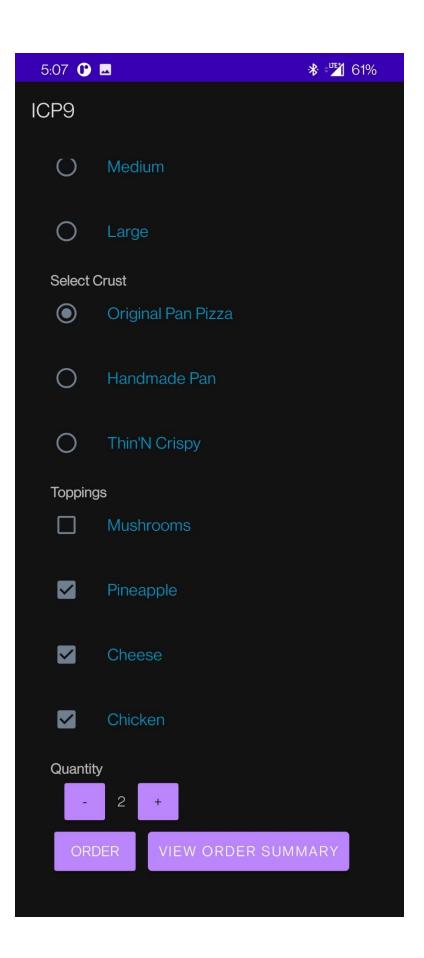
```
android:layout_height="wrap_content"
                                                                        A 4 🦠
    android:layout_marginTop="15dp"
    android:textSize="20sp"
    android:textStyle="italic"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    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: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>
```

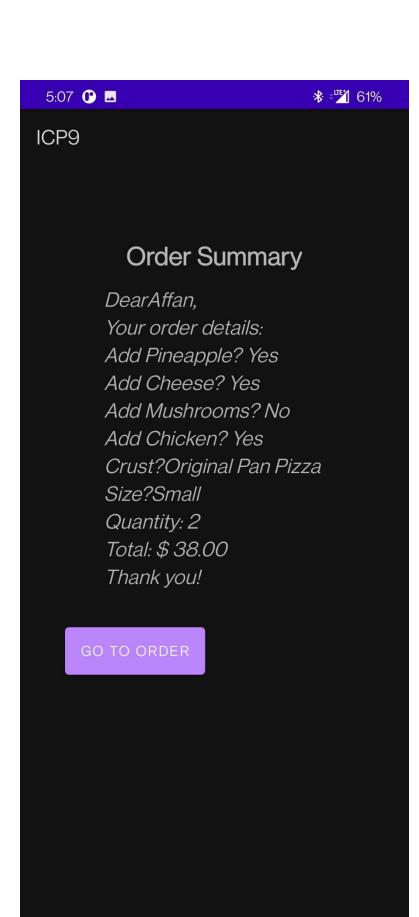
This page displays the order summary and on clicking the go to the order button, goes back to the main page.

```
package com.example.icp9;
        import androidx.appcompat.app.AppCompatActivity;
        import android.os.Bundle;
        import android.view.View;
        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.







The order is send to the user using the gmail account. 5:08 🕑 🗔 **※** ■ 61% Compose aqduscharolia016@gmail.com From Affan Charolia Pizza Delivery Details Dear Affan, 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!