

WEB ICP9

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In Class Programming:

In this ICP, we are going to

Develop a pizza ordering application.

Features we added are:

- Submit button, pizza type, quantity, text field, and checkboxes are included in the main page of our application.
- Button to place an order.
- Summary button to view the order details.
- And main feature with our application is that we can share the order details externally with the order button itself.

Home Page:

Below is the screenshots for our application's home page and well commented.

below we have initialized all the global variables with their values as final.

```
import ...

public class HomePage extends AppCompatActivity {

    // initialization the global variables with final values.

    private static final String MAIN_ACTIVITY_TAG = "MainActivity";

    final int COFFEE_PRICE = 5;
    final int WHIPPED_CREAM_PRICE = 1;
    final int CHOCOLATE_PRICE = 2;
    final int Jalapinos = 1;
    final int Onions = 1;
    final int Olives = 1;
    final int Tomatoes = 1;
    final int Spinach = 1;
    final int Lettuce = 1;
    final int Bellpeppers = 1;

    String name = "";
    String order = "";
    String price1 = "";
    String quant = "";
    String totalamntage = "";
    int quantity = 3;

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

Here we have written the code to get the input from the user and also the added extra items to the order and calculated the total price finally.

```
// This method is called when the order button is clicked.

public void submitOrder(View view) {

    // get user input
    EditText userInputNameView = (EditText) findViewById(R.id.user_input);
    String userInputName = userInputNameView.getText().toString();

    // check if whipped cream is selected
    CheckBox whippedCream = (CheckBox) findViewById(R.id.whipped_cream_checked);
    boolean hasWhippedCream = whippedCream.isChecked();

    // check if chocolate is selected
    CheckBox chocolate = (CheckBox) findViewById(R.id.chocolate_checked);
    boolean hasChocolate = chocolate.isChecked();

    // calculate and store the total price
    float totalPrice = calculatePrice(hasWhippedCream, hasChocolate);

    // create and store the order summary
    String orderSummaryMessage = createOrderSummary(userInputName, hasWhippedCream, hasChocolate, totalPrice);
    Intent redirect = new Intent(ApplicationContext.HomePage.this, SummaryPage.class);
    redirect.putExtra(ApplicationContext.name, orderSummaryMessage);
    redirect.putExtra(ApplicationContext.order, order);
    redirect.putExtra(ApplicationContext.price, price);
    redirect.putExtra(ApplicationContext.quantity, quantity);
    redirect.putExtra(ApplicationContext.name, name);
    startActivity(redirect);

    // Write the relevant code for making the buttons work (i.e. implement the implicit and explicit intents)
}
```

Below snippet code written using java programming language to store the order details or summary message which can be shared externally via any platform like messaging app, email, etc.

And we also store the details in the application as well.

```
chocolate is selected
chocolate = (CheckBox) findViewById(R.id.chocolate_checked);
isChocolate = chocolate.isChecked();

// calculate the total price
Price = calculatePrice(hasWhippedCream, hasChocolate);

// store the order summary
OrderSummaryMessage = createOrderSummary(userInputName, hasWhippedCream, hasChocolate, totalPrice);
new Intent(Intent.ACTION_SEND);
Intent.setType("text/plain");
Intent.putExtra(Intent.EXTRA_EMAIL, new String[]{"sumanthadavarepu628@gmail.com"});
Intent.putExtra(Intent.EXTRA_SUBJECT, "subject of email");
Intent.putExtra(Intent.EXTRA_TEXT, orderSummaryMessage);

Intent.createChooser(i, "Send mail...");
try {
    startActivity(Intent);
} catch (ActivityNotFoundException ex) {
    Toast.makeText(context, "There are no email clients installed.", Toast.LENGTH_SHORT).show();
}

// Helper method
private boolean boolToString(boolean bool) {
    return bool ? "true" : "false";
}
```

```
private void display(int number) {
    TextView quantityTextView = (TextView) findViewById(R.id.quantity_text_view);
    quantityTextView.setText(number + "");
}

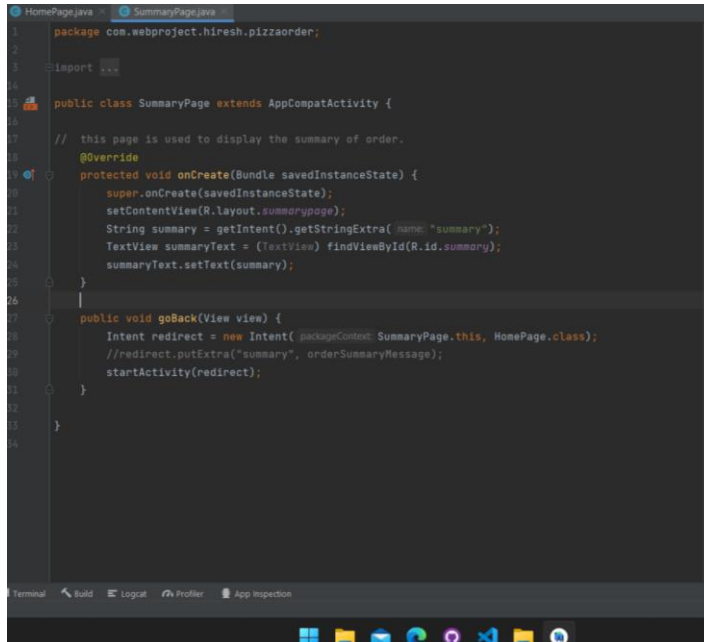
/**
 * This method increments the quantity of coffee cups by one
 * @param view view on passes the view that we are working with to the method
 */
public void increment(View view) {
    if (quantity < 100) {
        quantity = quantity + 1;
        display(quantity);
    } else {
        Log.i(TAG, "MainActivity", "msg: Please select less than one hundred cups of coffee");
        Context context = getApplicationContext();
        String lowerLimitToast = "Please select less than one hundred pizza";
        int duration = Toast.LENGTH_SHORT;
        Toast toast = Toast.makeText(context, lowerLimitToast, duration);
        toast.show();
        return;
    }
}

/**
```

Summary Page:

Code screenshot below shows the summary page designed using the java code, to store the details of the order or the summary of the order,

which can be viewed by using summary button in our application.

A screenshot of an IDE window showing the code for SummaryPage.java. The code is in Java and implements an AppCompatActivity. It includes package and import statements, a class declaration, an onCreate method that sets the content view, retrieves the summary string from an intent, finds a TextView, and sets its text. It also has a goBack method that creates an intent to redirect to the HomePage class.

```
1 package com.webproject.hiresh.pizzaorder;
2
3 import ...
4
15 public class SummaryPage extends AppCompatActivity {
16
17     // this page is used to display the summary of order.
18     @Override
19     protected void onCreate(Bundle savedInstanceState) {
20         super.onCreate(savedInstanceState);
21         setContentView(R.layout.summarypage);
22         String summary = getIntent().getStringExtra("summary");
23         TextView summaryText = (TextView) findViewById(R.id.summary);
24         summaryText.setText(summary);
25     }
26
27     public void goBack(View view) {
28         Intent redirect = new Intent( packageContext SummaryPage.this, HomePage.class);
29         //redirect.putExtra("summary", orderSummaryMessage);
30         startActivity(redirect);
31     }
32
33 }
34
```

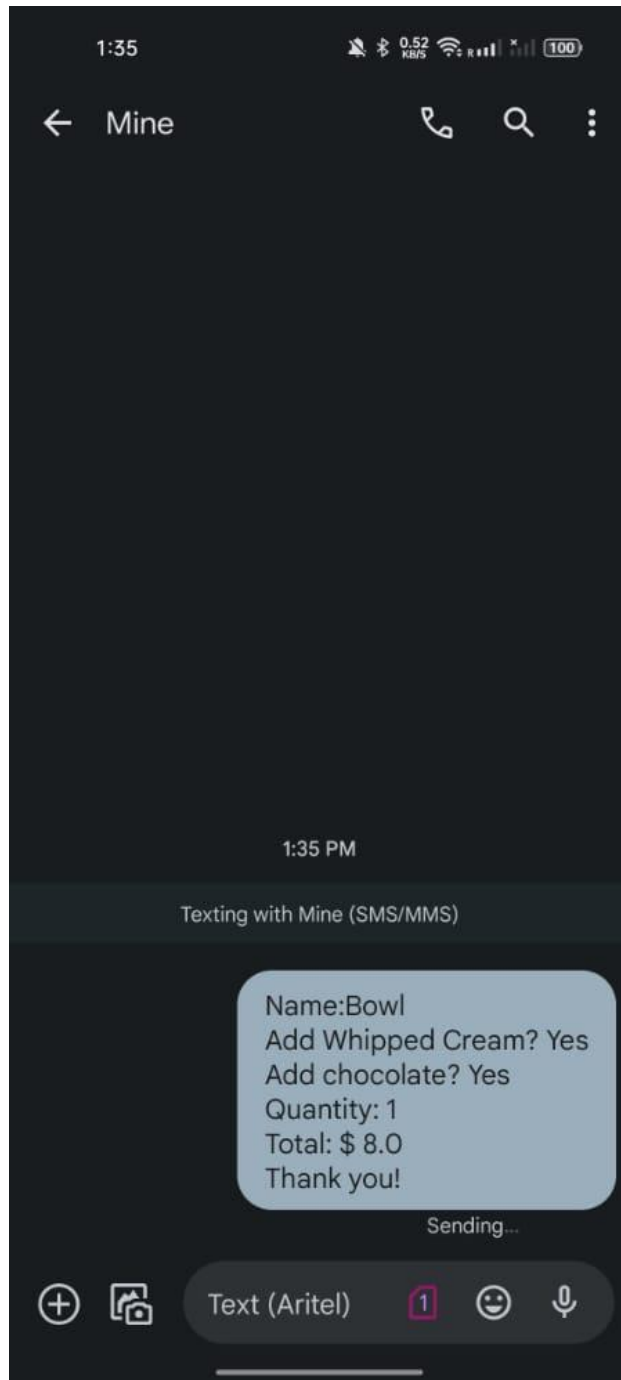
Output:

Finally we run our application by installing the apk version on our desired device. Below is the Output of our app's homepage view where there is an input field, toppings as an additional to be added and two buttons.



After placing an order we can share the details externally as said before.

Below was the sample where I shared details through messaging app, as a part of testing.



This is our Summary page where the order summary is stored and viewed by using the summary button on the homepage.

