

ICP9 – Group 12

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GitHub link: <https://github.com/sukumarbodapati/Web-Mobile-Spring-2022/tree/main/Mobile/ICP9>

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GitHub link: <https://github.com/Srinikhitha98/Web-Mobile-Dev-Spring-2022/tree/main/Mobile/ICP9>

Mobile Application - Android Studio

Objective:

To create pizza app for ordering pizza. This should contain submit button, pizza type, quantity, text field and checkboxes. The page should contain two button order and summary. If the user clicks on the summary, it should navigate to new activity and should have a new button to return back to main page. If the user clicks on the order, the user should receive mail with the order summary.

Tasks:

Activity.main.xml:

- We have used Linear layout for this page.
- Designed the layout of UI screen with the following:
 - Added two text view for “selecting the size of the pizza” and “Select the topping”.
 - Added checkboxes under selecting the size:
 - A. 14 slides
 - B. 12 slides
 - Added checkboxes under selecting the topping:
 - A. RawOnions
 - B. Olives
- Added two EditText for entering the name and email address of the customers.
- Added two buttons for order and Summary.

Main Activity. Java:

- Declared all the prices of the items and stored them in respective variables.

Oncreate method:

When the user clicks on the order button, it will open sendemail method.

```

protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);
    Button startBtn = (Button) findViewById(R.id.Order);
    startBtn.setOnClickListener(new View.OnClickListener()
    {
        public void onClick(View view) { sendEmail(); }
    });
}

```

SubmitOrder Method:

In this method, we will check the items and set their flag (whether they are selected or not) and call the calculate price method to calculate the total price.

```

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

// check if whipped cream is selected
CheckBox RawOnions = (CheckBox) findViewById(R.id.RawOnions);
boolean hasRawOnions = RawOnions.isChecked();

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

// check if whipped cream is selected
CheckBox slide1 = (CheckBox) findViewById(R.id.slide1);
boolean hasslide1 = slide1.isChecked();

// check if chocolate is selected
CheckBox slide2 = (CheckBox) findViewById(R.id.slide2);
boolean hasslide2 = slide2.isChecked();

// calculate and store the total price
float totalPrice = calculatePrice(hasRawOnions, hasOlives, hasslide1, hasslide2);

// create and store the order summary
String orderSummaryMessage = createOrderSummary(userInputName, hasRawOnions, hasOlives, hasslide1, hasslide2);

```

SendEmail method:

This method will send the mail to the customer with the items that has been ordered.

Code:

```

public void sendEmail() {

    EditText userInputNameView = (EditText) findViewById(R.id.user_input);
    String userInputName = userInputNameView.getText().toString();

    CheckBox RawOnions = (CheckBox) findViewById(R.id.RawOnions);
    boolean hasRawOnions = RawOnions.isChecked();

    CheckBox Olives = (CheckBox) findViewById(R.id.Olives);
    boolean hasOlives = Olives.isChecked();

    CheckBox slide1 = (CheckBox) findViewById(R.id.slide1);
    boolean hasslide1 = slide1.isChecked();

    CheckBox slide2 = (CheckBox) findViewById(R.id.slide2);
    boolean hasslide2 = slide2.isChecked();

    String orderSummaryMessage = "\t" + "Name:(Vijaya)" + "\n" +
        "Add Raw Onions? (yes)" + "\n" +
        "Add Olives? (yes)" + "\n" +
        "14 slides? (yes)" + "\n" +
        "12 slides? (yes)" + "\n" +
        "Quantity: (2)" + "\n" +
        "Total: $ (10)" + "\n" +
        "Thank you!";

    TextView email= (TextView) findViewById(R.id.Email);
    Log.i( tag: "Send email", msg: "");
    String[] T0 = {email.getText().toString()};
    String[] CC = {" "};
    Intent emailIntent = new Intent(Intent.ACTION_SEND);

    emailIntent.setData(Uri.parse("mailto:"));
    emailIntent.setType("text/plain");
    emailIntent.putExtra(Intent.EXTRA_EMAIL, T0);
    emailIntent.putExtra(Intent.EXTRA_CC, CC);
    emailIntent.putExtra(Intent.EXTRA_SUBJECT, value: "This is your pizza Order");
    emailIntent.putExtra(Intent.EXTRA_TEXT, orderSummaryMessage);
}

```

CreateOrder Summary:

This method is used to create the Summary of the order.

```

private String createOrderSummary(String userInputName, boolean hasRawOnions, boolean hasOlives, boolean hasslide1, boolean hasslide2) {
    String orderSummaryMessage = "Name:(Vijaya)" + "\n" +
        "14 slides? (yes)" + "\n" +
        "12 slides? (yes)" + "\n" +
        "Add Raw Onions? (yes)" + "\n" +
        "Add Olives? (yes)" + "\n" +
        "Quantity: (2)" + "\n" +
        "Total: $ (10)" + "\n" +
        "Thank you!";
    return orderSummaryMessage;
}

```

CalculatePrice:

To calculate the total price of the order ,Initially decalred the base price as zero and added to the base price based upon the slection ths user(using the boolean flags).

```
private float calculatePrice(boolean hasRawOnions
    int basePrice = 0;
    if (hasslide1) {
        basePrice += fourslide;
    }
    if (hasslide2) {
        basePrice += tweslide;
    }
    if (hasRawOnions) {
        basePrice += rawonions;
    }
    if (hasOlives) {
        basePrice += olives_price;
    }
    return quantity * basePrice;
}
```

Activity.summary.xml:

Added a Button to return back to the order page.

Added List View to display all the items of the ordre in the format of list.

Summary Activity.java:

When User clicks on the Summary button after the selection,the user should navigate to the new page with the details of the order.

Code:

```

public class SummaryActivity extends AppCompatActivity {

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

        TextView summaryText = findViewById(R.id.textSummary);
        summaryText.setText(getIntent().getStringExtra( name: "sumKey"));
    }

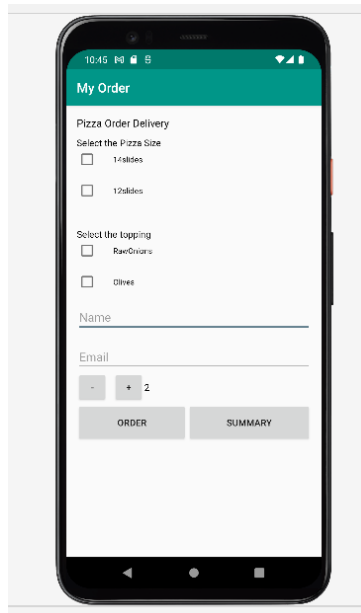
    public void goto_order_page(View view){
        finish();
    }

}

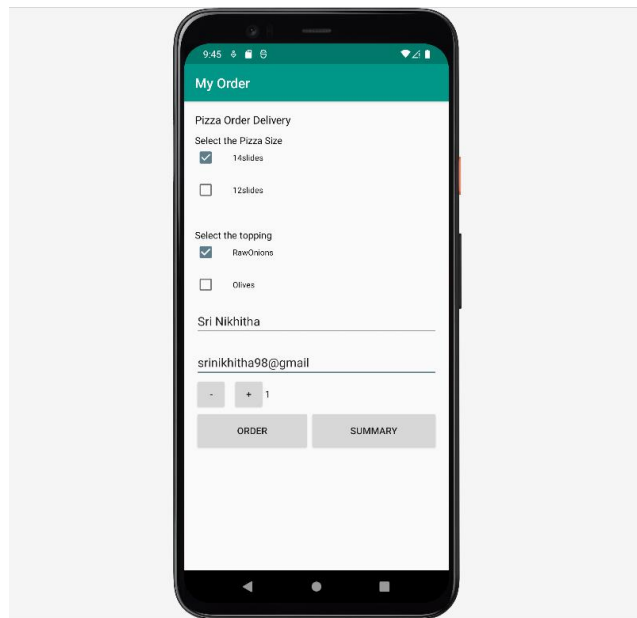
```

Application Output:

Basic Pizza App Main Page: This is the main page for the user to order the pizza

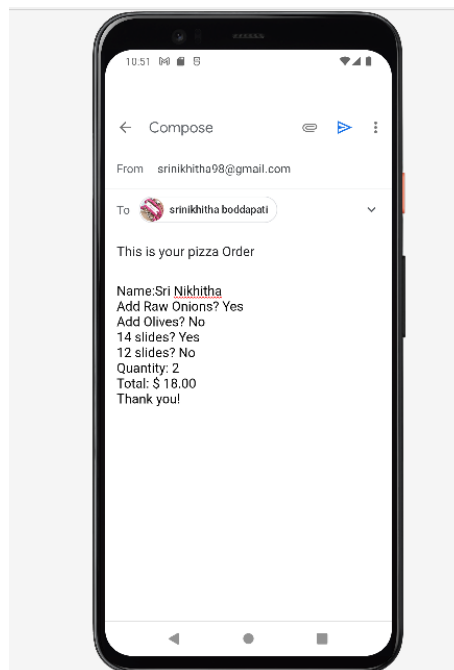


The User have to select the pizza size ,toppings, Quantity and enter the Name ,Gmail of the user.

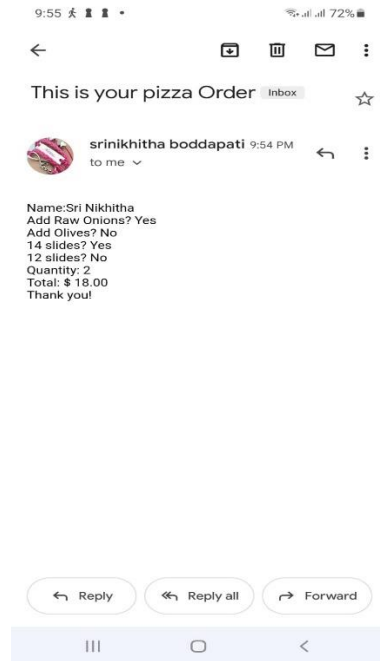


Once the user has selected the pizza, if he clicks on the order, it will send a mail to the user's email address.

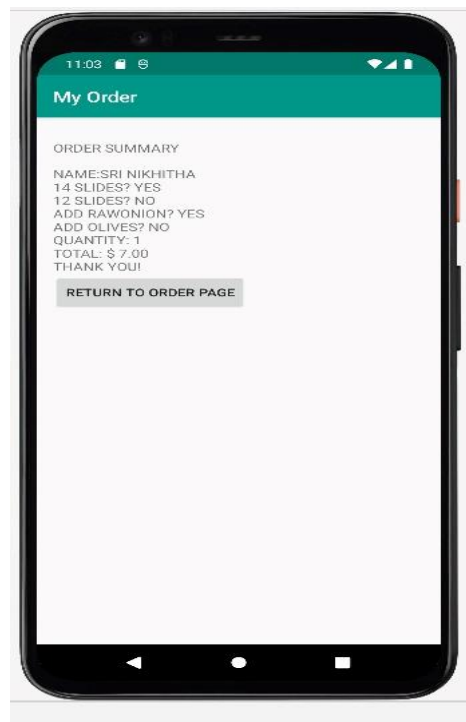
After clicking on the order, it will compose a mail:



After the order, the below is the screenshot of the mail I received.



Once the user has selected the pizza, if he clicks on the summary, it will navigate to new page with the summary of the order details.



Once we click on the return to the order page, it will redirect to the main page.