

## **MOBILE PROGRAMMING – ICP9**

**Name: Aishwarya Naidu Kotla**

**Email: [aknxd@umkc.edu](mailto:aknxd@umkc.edu)**

**GithubLink -**

**<https://github.com/AishwaryaKotla/WebSpring2022/tree/main/MobilePart/ICP9>**

**Partner Name: Pranay Reddy Singireddy**

**Email: [psgvvy@umsl.edu](mailto:psgvvy@umsl.edu)**

**GithubLink -**

**<https://github.com/sunnypranay4748/WebSpring2022/tree/main/MobilePart/ICP9>**

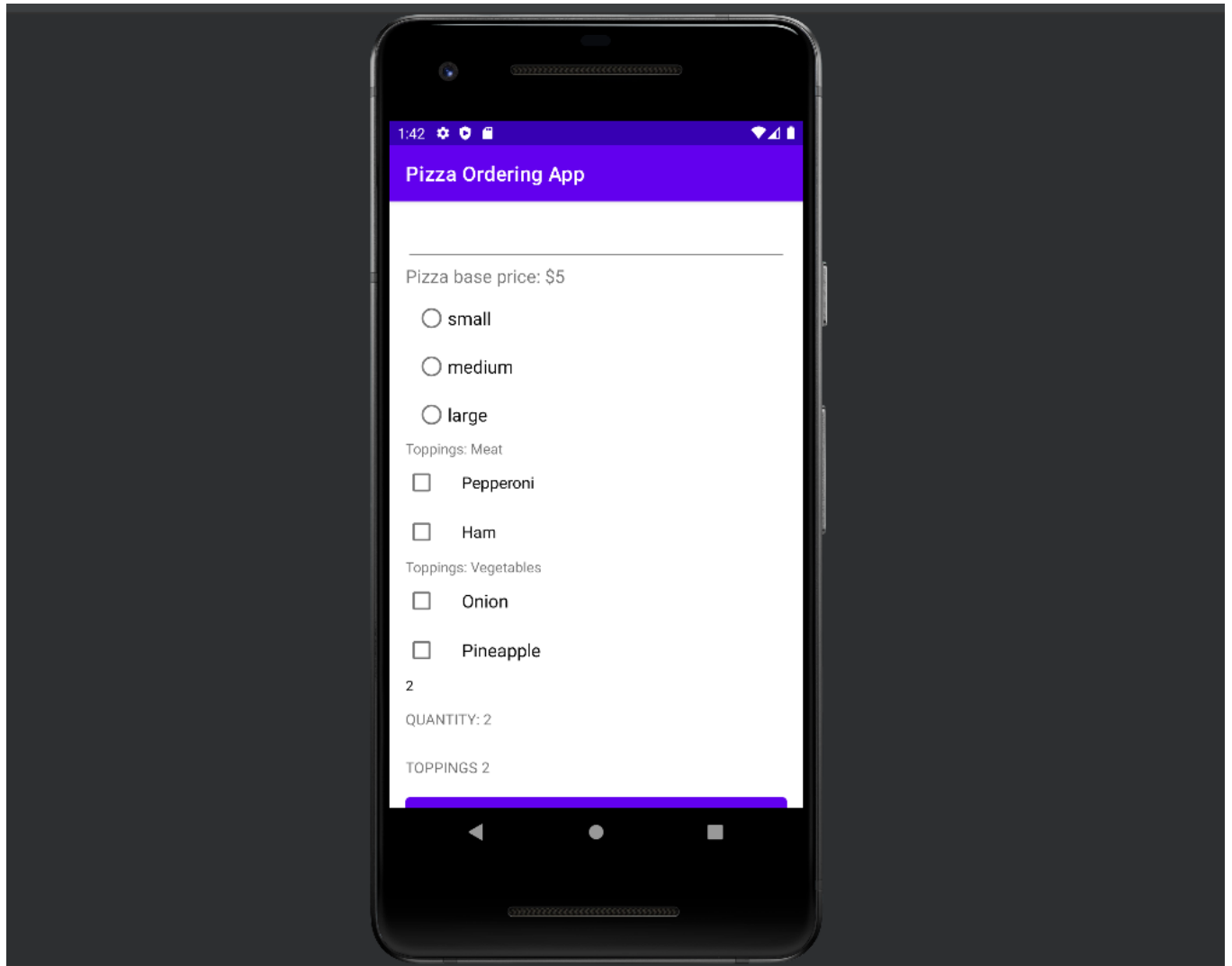
**The objective of this ICP is to create a Pizza Ordering application on android**

**This App provides the user with the following steps**

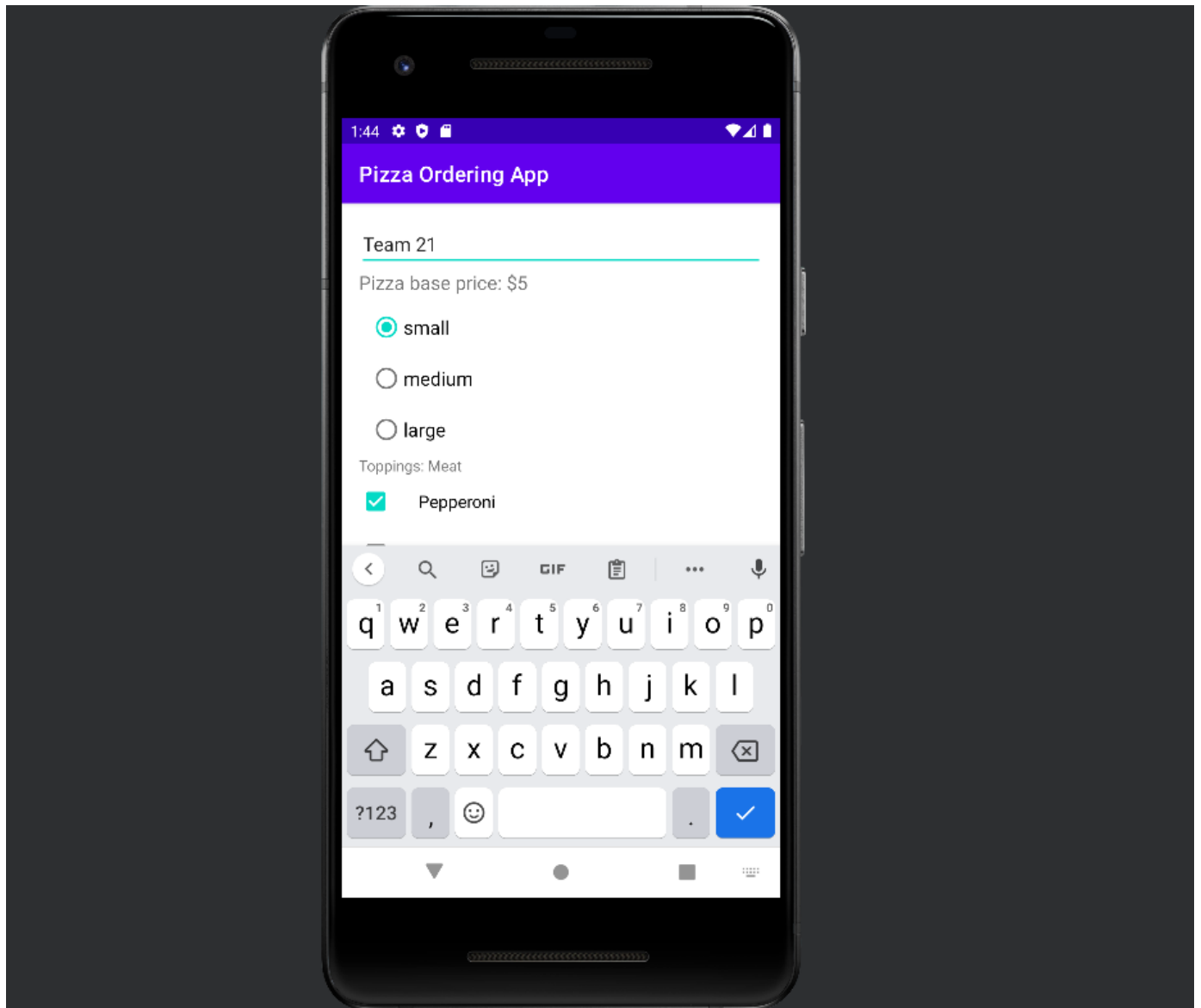
- ➔ The user can enter the name and start his order**
- ➔ The user can select the size of the pizza of his choice Small, Medium or Large**
- ➔ He can choose the toppings of his choice**
- ➔ Once he is good with his order he can once again review the summary of his order**
- ➔ And then place the order**
- ➔ He has a choice of sending the order acknowledgment to his email with this App**

**In the following pages this document describes the step by step functionality of this application.**

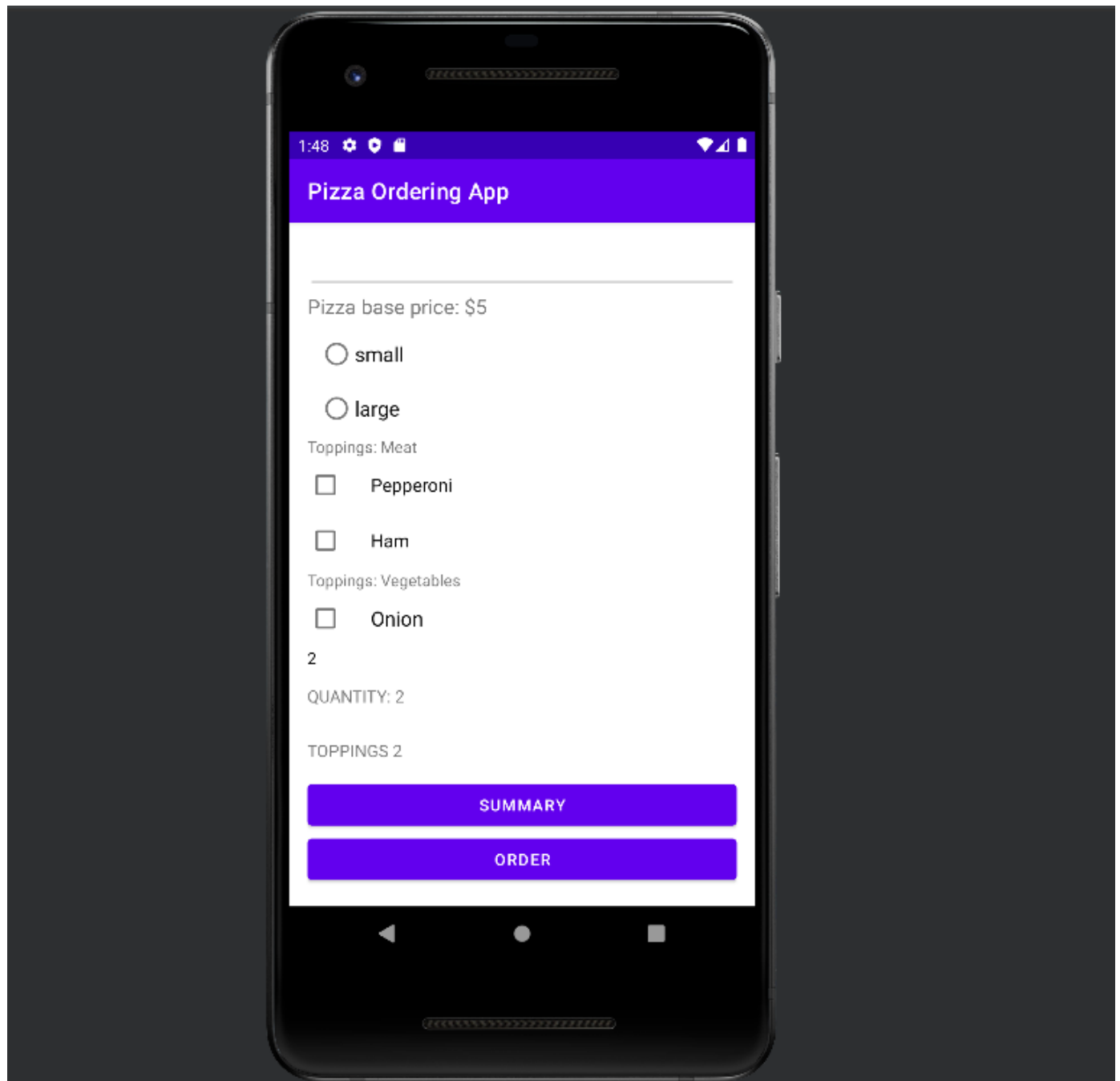
**Added Radio buttons to select the size of the pizza with names small medium and Large, Added choices of Meat with Check Boxes with options Pepperoni and Ham, Added some more Check Boxes with toppings like Onion and Pine Apple. The user can choose of his choice.**



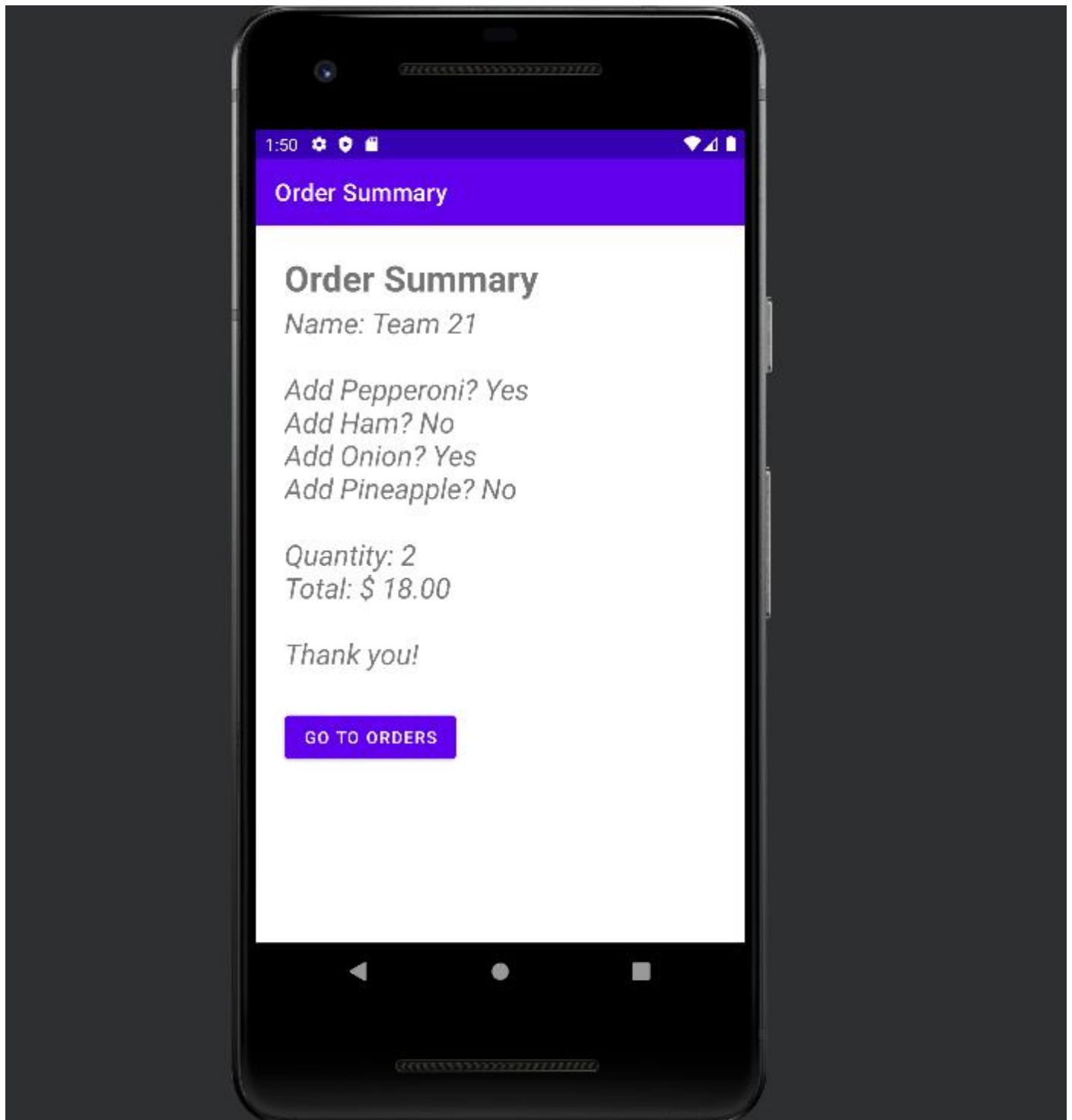
The user can also enter the name of the person ordering in the TextBox , here I have entered the name team 21, along with my selection of the Pizza Small and Toppings as Pepperoni



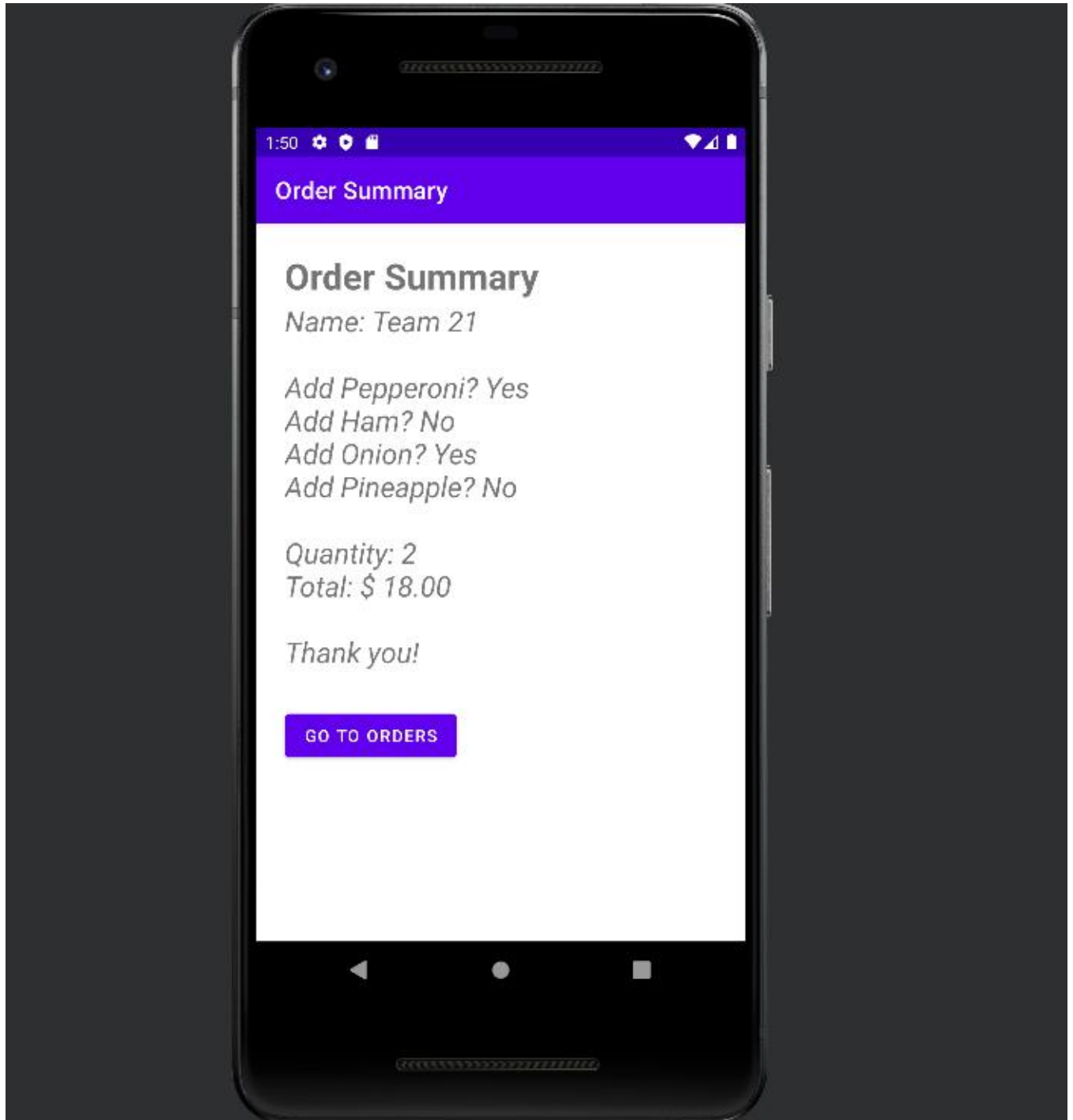
Once the selections are done we can Click on the Summary button which shows the Summary of our order which has our selections and the total cost. On clicking on the Order Button we can directly place the order along with sending an email.



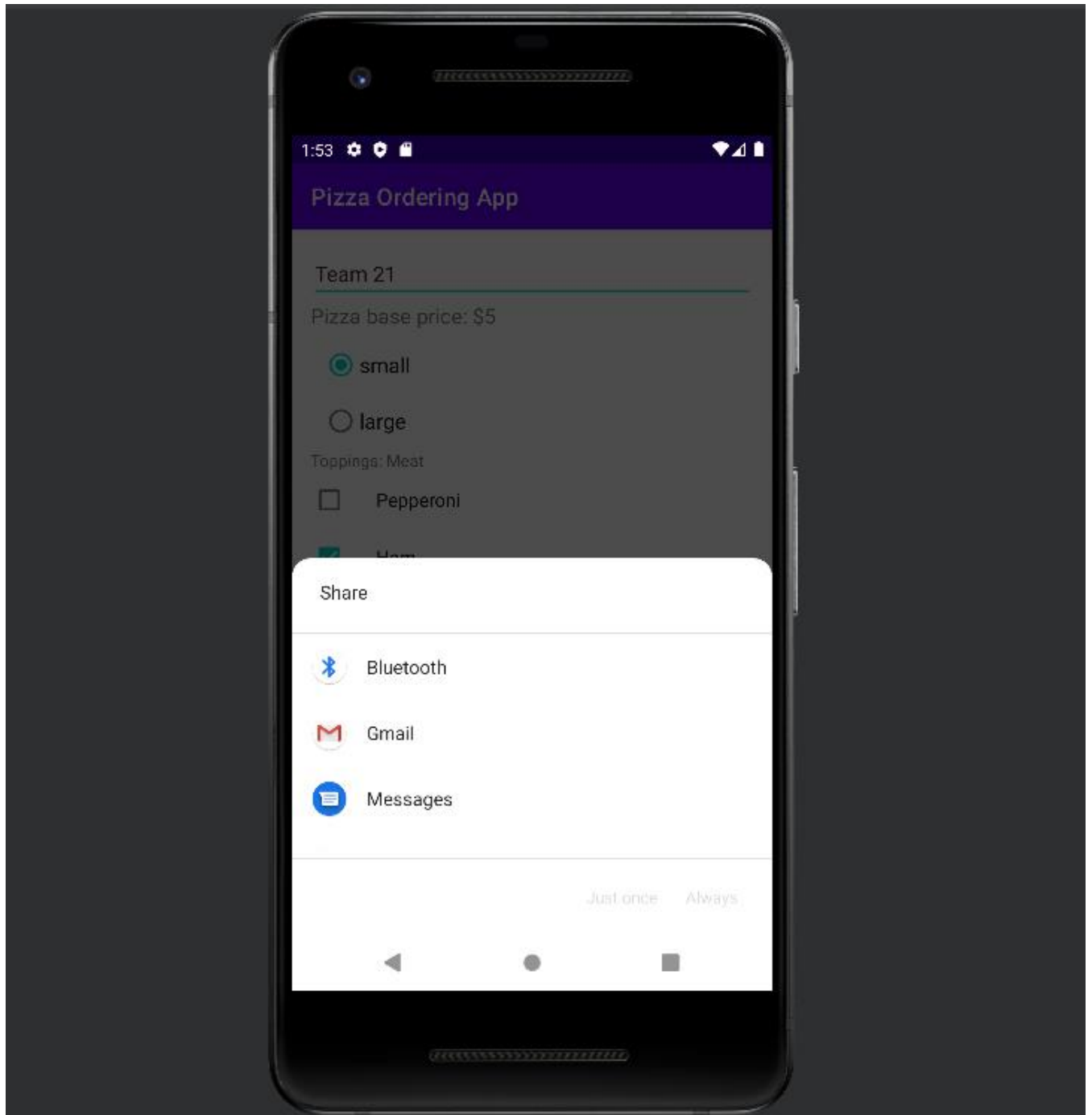
Once we have selected our choice and after clicking on the Summary we see the below screen which shows the Name of the person who ordered, the respective addons and the total price.



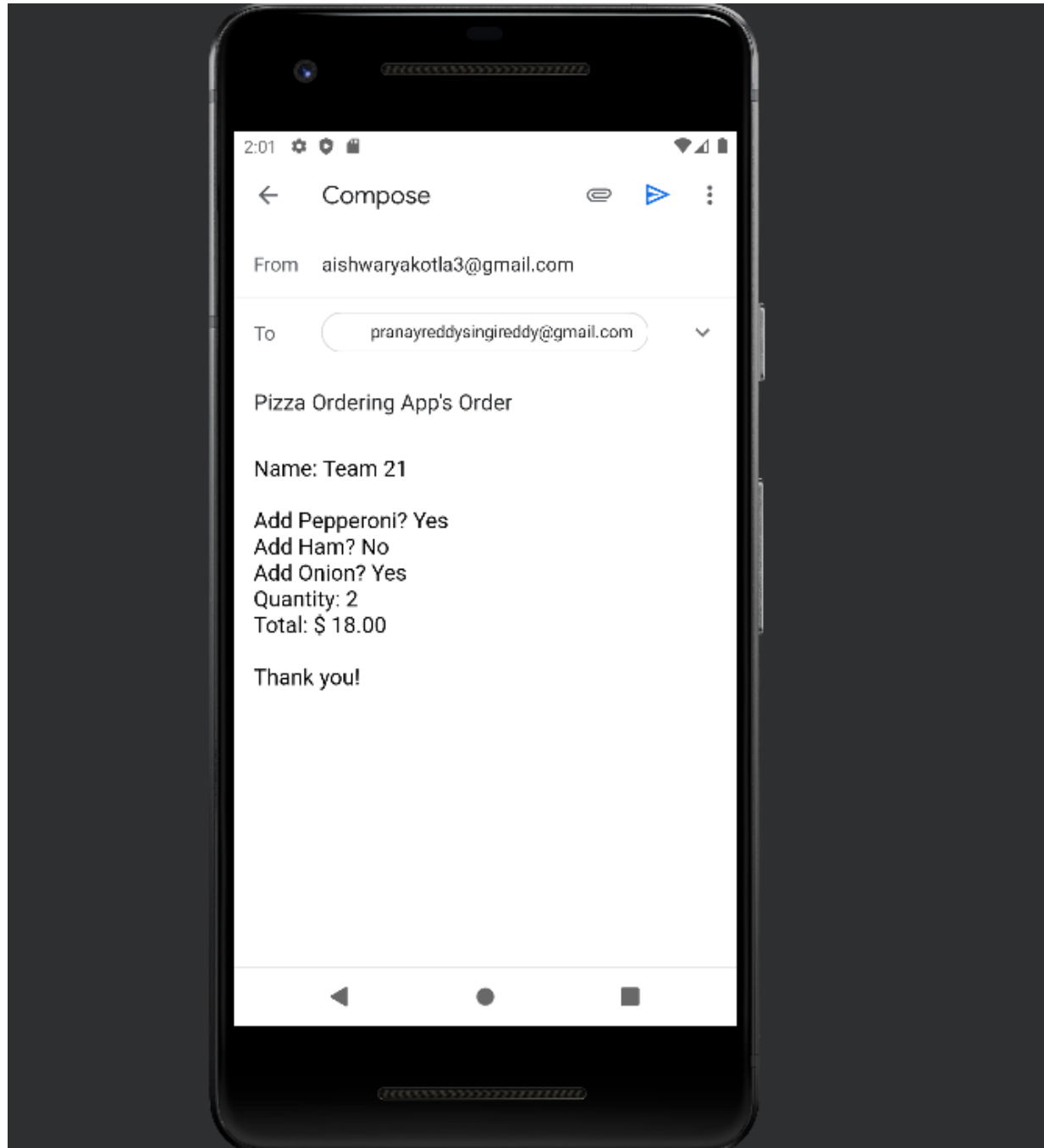
Here we also have a button go to orders. On clicking we can go back to the order page where we can add or remove the topic where we can edit our order.



Once we have reviewed our Order we can click on the Order button and place our order and we can send the acknowledgement to our email address and the below screen will be displayed to select the email.

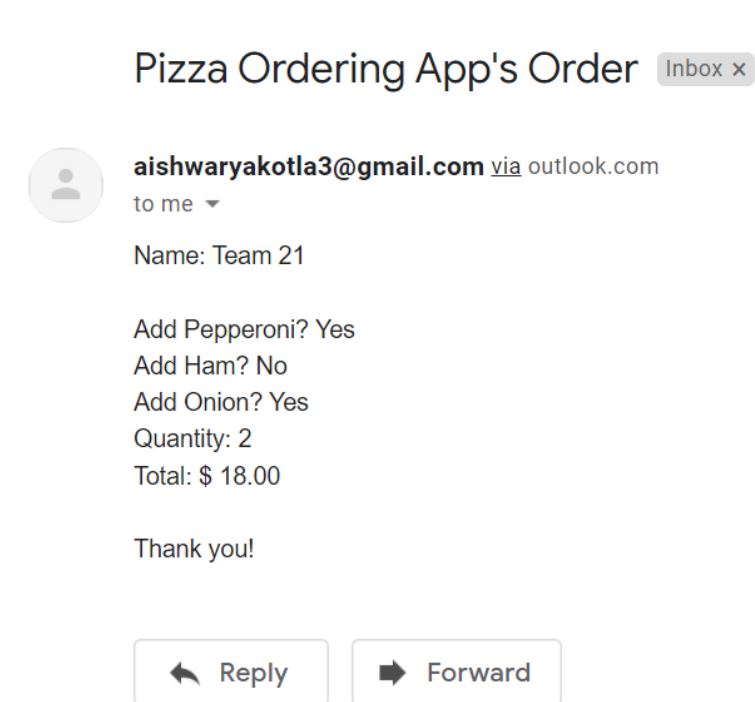


We can enter the destination Email Address which we wished to send to , here I am sending to my partners email address as we usually send in the email app.





## This the Email received finally after Placing the Order



## Code Part

The below screen shot has the checkbox event Listener

```
public void addCheckBoxListener(int id) {
    CheckBox perpperoni = (CheckBox) findViewById(id);
    perpperoni.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View view) {
            if(((CheckBox)view).isChecked()) {
                toppings++;
            }
            else {
                toppings--;
            }
            ((TextView) findViewById(R.id.toppings)).setText("TOPPINGS: " + toppings);
        }
    });
}
```

The Summary and SendEmail methods have the main logic to view summary and in sending the email

```
public void summary(View view) {
    // creating and storing the order summary
    String orderSummaryMessage = createOrderSummary();
    Intent intent = new Intent( packageContext: this, SummaryActivity.class);
    intent.putExtra( name: "orderSummary", orderSummaryMessage);
    startActivity(intent);
}

// below is the main logic to send the email to customer email
public void sendEmail(View view) {
    Intent intent = new Intent(Intent.ACTION_SEND);
    intent.setType("text/plain");
    intent.putExtra(Intent.EXTRA_EMAIL, new String[]{"aishwaryakotla3@gmail.com"});
    intent.putExtra(Intent.EXTRA_SUBJECT, value: "Pizza Ordering App's Order");
    intent.putExtra(Intent.EXTRA_TEXT, createOrderSummary());

    if (intent.resolveActivity(getPackageManager()) != null) {
        startActivity(intent);
    }
}
```

This code is related to creating the order in order for us to view it.

```
private String createOrderSummary() {
    // Get user name
    EditText userInputNameView = (EditText) findViewById(R.id.user_input);
    String userInputName = userInputNameView.getText().toString();

    CheckBox pep1= (CheckBox) findViewById(R.id.pepperoni_meat_checked);
    boolean hasPepperoni = pep1.isChecked();

    CheckBox ham = (CheckBox) findViewById(R.id.ham_meat_checked);
    boolean hasHam = ham.isChecked();

    CheckBox pineapple2 = (CheckBox) findViewById(R.id.pineapple_checked);
    boolean hasPineapple = pineapple2.isChecked();

    CheckBox onion3 = (CheckBox) findViewById(R.id.onion_checked);
    boolean hasOnion = onion3.isChecked();

    float price = calculatePrice();
```

```
String orderSummaryMessage = getString(R.string.order_summary_name, userInputName) + "\n"
    getString(R.string.order_summary_pepperoni, boolToString(hasPepperoni)) + "\n"
    getString(R.string.order_summary_ham, boolToString(hasHam)) + "\n" +
    getString(R.string.order_summary_onion, boolToString(hasOnion)) + "\n" +
    getString(R.string.order_summary_pineapple, boolToString(hasPineapple)) + "\n"
    getString(R.string.order_summary_quantity, quantity) + "\n" +
    getString(R.string.order_summary_total_price, price) + "\n" + "\n" +
    getString(R.string.thank_you);
return orderSummaryMessage;
}

private float calculatePrice() {
    return (PIZZA_PRICE + TOPPING_PRICE * toppings) * quantity;
}
```