WEB AND MOBILE PROGRAMMING

ICP group : 22
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Task :
As per the given requirements, the activity_main.xml that I have created consists of radio buttons, a Check box, button, a Textview, and so on. Setters and Getters are used to store the data provided by the user temporarily and the Overview button is created that navigates to the new page with the provided summary string that is going to be displayed on the new page.

setContentView is used to link the XML page with the java page which is the programming language that I have selected. Every button and text has its Id and it is bound with the variables in the .java page.

For Radio button usage, Initially, I have checked whether the user has selected the button or not, If selected then the switch case is used for selection and price calculation. Priced varied based on the size of the pizza user selected.

For Check box usage, Initially, I have checked whether the user has selected the checkbox or not, If selected then the switch case is used for selection and price calculation. Priced varied based on the toppings added to the pizza by the user.

A simple button is used to increase and decrease the quantity, If the increment button is selected by the user then the value of the button variable is increased to one and if the user selected the decrement button, the value of

the decrement button is decreased to one, The minimum value of the particular quantity function is one.
The total price calculation logic is the sum of size and toppings and the sum is multiplied with quantity.

Initially, Customer Name validation is done, Initially, the customer name need not be empty if empty then a toast is used for the user to understand the error message and if validation is true, then two different review strings were created for radio and check values and strings are updated as per the user selection and final overview is updated as a concatenation of the previously updated strings and updated string also consists of final price value. Intent and putExtra methods are used to send the updated review to the new .xml page.
To get the email notification, ACTION_SEND, EXTRA_EMAIL, EXTRA_TEXT, EXTRA_SUBJECT methods are used to fill the required fields like body, subject, mailTo fields, and so on.

Code:

```
public class pizza {
    int Size;
    int Bacon;
    int Salami;
    int blackOlives;
    public pizza() {
    }
//setters and getters
    public int getSize() { return Size; }

    public void setSize(int Size) { this.Size = Size; }

    public int getBacon() {
        return Bacon;
    }

    public void setBacon(int Bacon) {
        Bacon = Bacon;
    }

    public int getSalami() { return Salami; }

    public void setSalami(int Salami) {
        Salami = Salami;
    }

    public int getblackOlives() { return blackOlives; }

    public void setblackOlives(int blackOlives) { blackOlives = blackOlives; }
}
```

```
import ...

public class MainActivity extends AppCompatActivity {
    //variables declaration
    String review, mailReview,customerName,reviewChange,regularSize,mediumSize,largeSize,sides1,sides2,sides3,finalReview;
    int noOfPizza=1;
    TextView quantityValue;
    TextView userName;
    pizza pizza;
    int price;
    TextView cartValue;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        //constructor calling
        pizza = new pizza();
        quantityValue = findViewById(R.id.quantityValue);
        userName = findViewById(R.id.userName);
        TextView customerName=findViewById(R.id.userName);
        cartValue = findViewById(R.id.cartValue);
        //cart value
        price = (pizza.getSize()+ pizza.getSalami()+ pizza.getblackOlives()+
                pizza.getBacon())*noOfPizza;
       //setting name
        cartValue.setText(""+price);

    }

        //Radio button method
        public void sizeMethod (View view){
            //checking whether the radio button is clicked
            boolean check = ((RadioButton) view).isChecked();
```

```
    //Radio button method
    public void sizeMethod (View view){
        //checking whether the radio button is clicked
        boolean check = ((RadioButton) view).isChecked();
        switch (view.getId()) {
            case R.id.rb1:
                if (check) {
                    pizza.setSize(20);
                    regularSize="Small";
                }
                break;
            case R.id.rb2:
                if (check) {
                    pizza.setSize(23);
                    mediumSize="Medium";
                }
                break;
            case R.id.rb3:
                if (check) {
                    pizza.setSize(25);
                    largeSize="Large";
                }
                break;
        }
        cartValue.setText(""+ pizza.getSize());
    }
    // check box method for topping
    public void checkBoxMethod (View view){
        //checking whether the check button is clicked
        boolean check = ((CheckBox) view).isChecked();
        switch (view.getId()) {
            case R.id.cb1:
                if (check) {
```

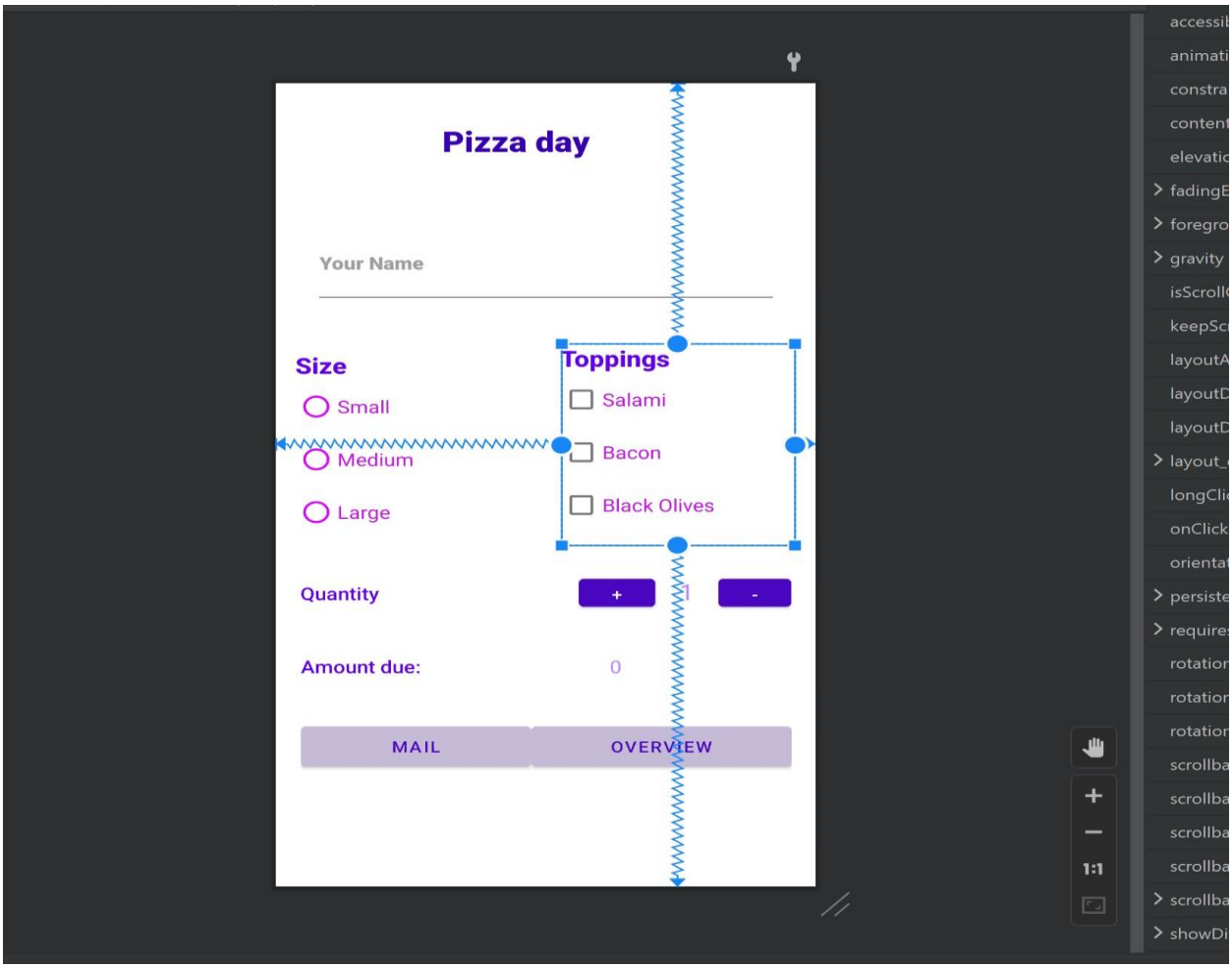
```
    // check box method for topping
    public void checkBoxMethod (View view){
        //checking whether the check button is clicked
        boolean check = ((CheckBox) view).isChecked();
        switch (view.getId()) {
            case R.id.cb1:
                if (check) {
                    pizza.setBacon(6);
                    sides1="Bacon";
                } else {
                    pizza.setBacon(0);
                }
                break;
            case R.id.cb2:
                if (check) {
                    pizza.setblackOlives(10);
                    sides2="Black Olives";
                } else {
                    pizza.setblackOlives(0);
                }
                break;
            case R.id.cb3:
                if (check) {
                    pizza.setSalami(10);
                    sides3="Salami";
                } else {
                    pizza.setSalami(0);
                }
                break;
        }
        //cart value
        price = (pizza.getSize()+ pizza.getSalami()+ pizza.getblackOlives()+
                pizza.getBacon());
        cartValue.setText(""+price);
```

```
    // Increment Method calling
    public void increment (View view){
        //Quantity condition check
        if (noOfPizza >= 1) {
            //increment
            noOfPizza++;
            quantityValue.setText("" + noOfPizza);
            // cart value
            price = (pizza.getSize()+ pizza.getSalami()+ pizza.getblackOlives()+
                    pizza.getBacon())*noOfPizza;
            cartValue.setText(""+price);
        } else {
            noOfPizza = 1;
        }

    }
   // decrement method calling
    public void decrement (View view){
        //Quantity condition check
        if (noOfPizza > 1) {
            // decrement
            noOfPizza--;
            quantityValue.setText("" + noOfPizza);
            //cart value
            price = (pizza.getSize()+ pizza.getSalami()+ pizza.getblackOlives()+
                    pizza.getBacon())*noOfPizza;
            cartValue.setText(""+price);
        } else {
            noOfPizza = 1;
        }
    }
```

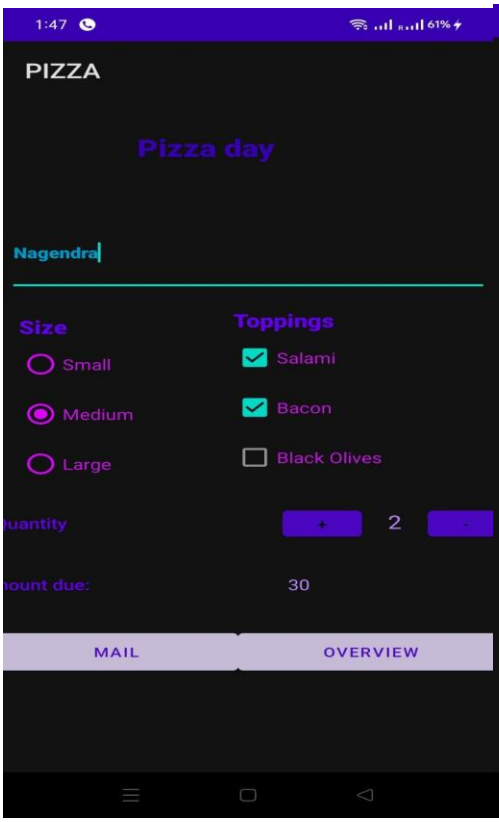
```
            x.putExtra( name: "finalReview", finalReview);
            startActivity(x);
        }
    }

    //mail method calling
    public void mailNotification(View view) {
        Toast.makeText( context: MainActivity.this, text: "Email",Toast.LENGTH_SHORT).show();
        //mail navigation intent
        Intent mailMessage = new Intent(Intent.ACTION_SEND);
        // to box filling
        mailMessage.putExtra(Intent.EXTRA_EMAIL,new String[]{"nag3v@umsystem.com"});
        // subject filling
        mailMessage.putExtra(Intent.EXTRA_SUBJECT, value: "Order Review");
        //body filling
        mailMessage.putExtra(Intent.EXTRA_TEXT, mailReview);
        mailMessage.setType("message/rfc822");
        startActivity(mailMessage);
    }
```

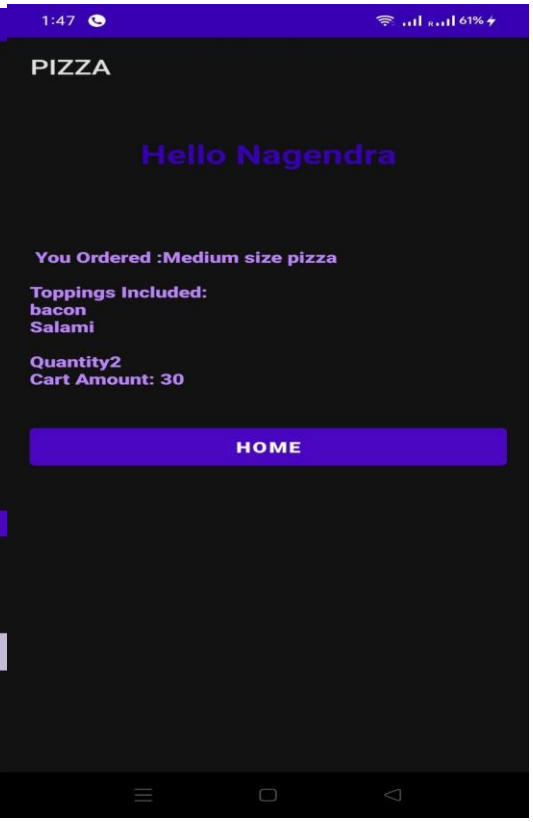
```
public void overview(View view) {
    // message display
    Toast.makeText( context: MainActivity.this, text: "Your summary",Toast.LENGTH_SHORT).show();
    customerName= userName.getText().toString();
    if(customerName.isEmpty()){
        // name check
        Toast.makeText( context: MainActivity.this, text: "Name field should not be empty",Toast.LENGTH_SHORT).show();
    }else {
        // size check for summary
        if(regularSize == null && mediumSize ==null) {
            review = "\n You Ordered :" + largeSize + " size pizza";
        } else  if(mediumSize == null && largeSize == null) {
            review = "\n You Ordered :" + regularSize + " size pizza";
        } else  if(largeSize == null && regularSize==null) {
            review = "\n You Ordered :" + mediumSize + " size pizza";
        }
        // toppings check for summary
        if (sides1== null && sides2== null && sides3== null)
        {
            reviewChange="\n"+"empty!! no toppings selected"
                    +"\n" +"Quantity " +noOfPizza
                    +"\n" +"Cart Amount: " + price;
        }else{
            reviewChange="\n"+"Toppings Included: \n"
                     + ((sides2 == null) ? "" : sides2+"\n")
                     +((sides1 == null) ? "" : sides1+"\n")
                     +((sides3 == null) ? "" : sides3) +
                    "\n" +"Quantity" +noOfPizza
                     +"\n" +"Cart Amount: " + price;
        }
        //final summary
        finalReview=review +""+"\n"+""+reviewChange;
```

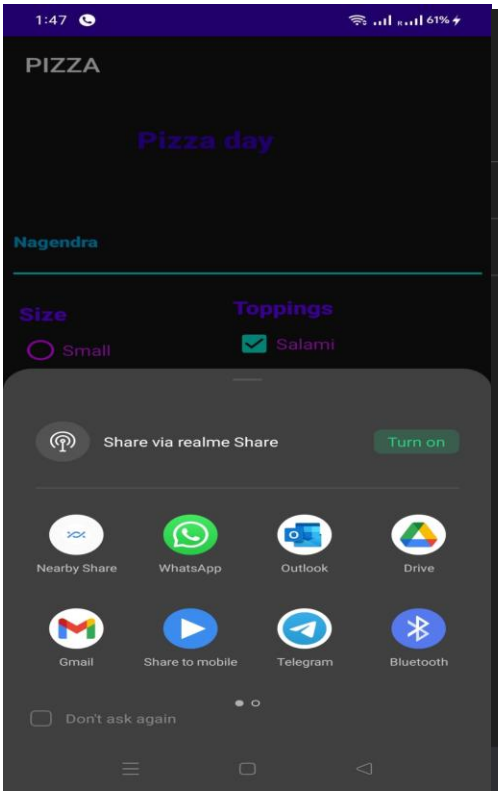
XML:

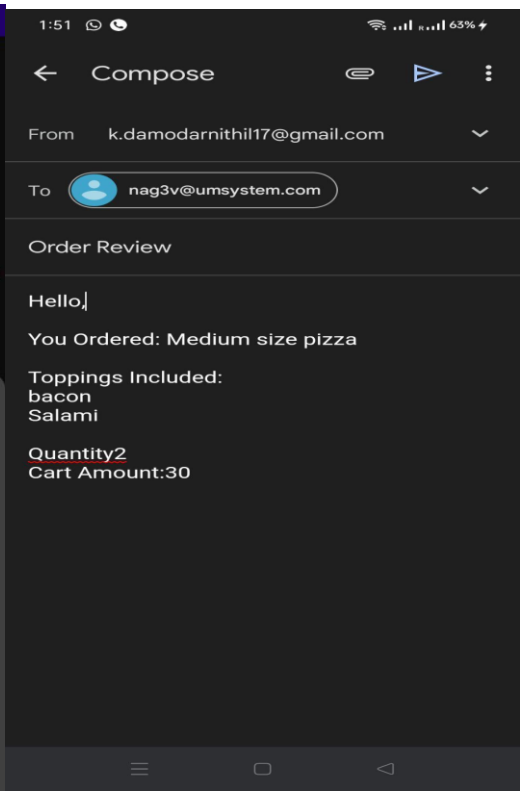


OUTPUT


1:47
PIZZA
Pizza day
Nagendra
Size
Small
Medium
Large
Toppings
Salami
Bacon
Black Olives
2
30
MAIL
OVERVIEW


1:47
PIZZA
Hello Nagendra
You Ordered :Medium size pizza
Toppings Included:
bacon
Salami
Quantity2
Cart Amount: 30
HOME


1:47
PIZZA
Pizza day
Nagendra
Size
Small
Toppings
Salami
Share via realme Share
Turn on
Nearby Share
WhatsApp
Outlook
Drive
Gmail
Share to mobile
Telegram
Bluetooth
Don't ask again


1:51
Compose
From
k.damodarnithil17@gmail.com
To
nag3v@umsystem.com
Order Review
Hello,
You Ordered: Medium size pizza
Toppings Included:
bacon
Salami
Quantity2
Cart Amount:30