Snack App: A snack ordering and delivery app

Presented by

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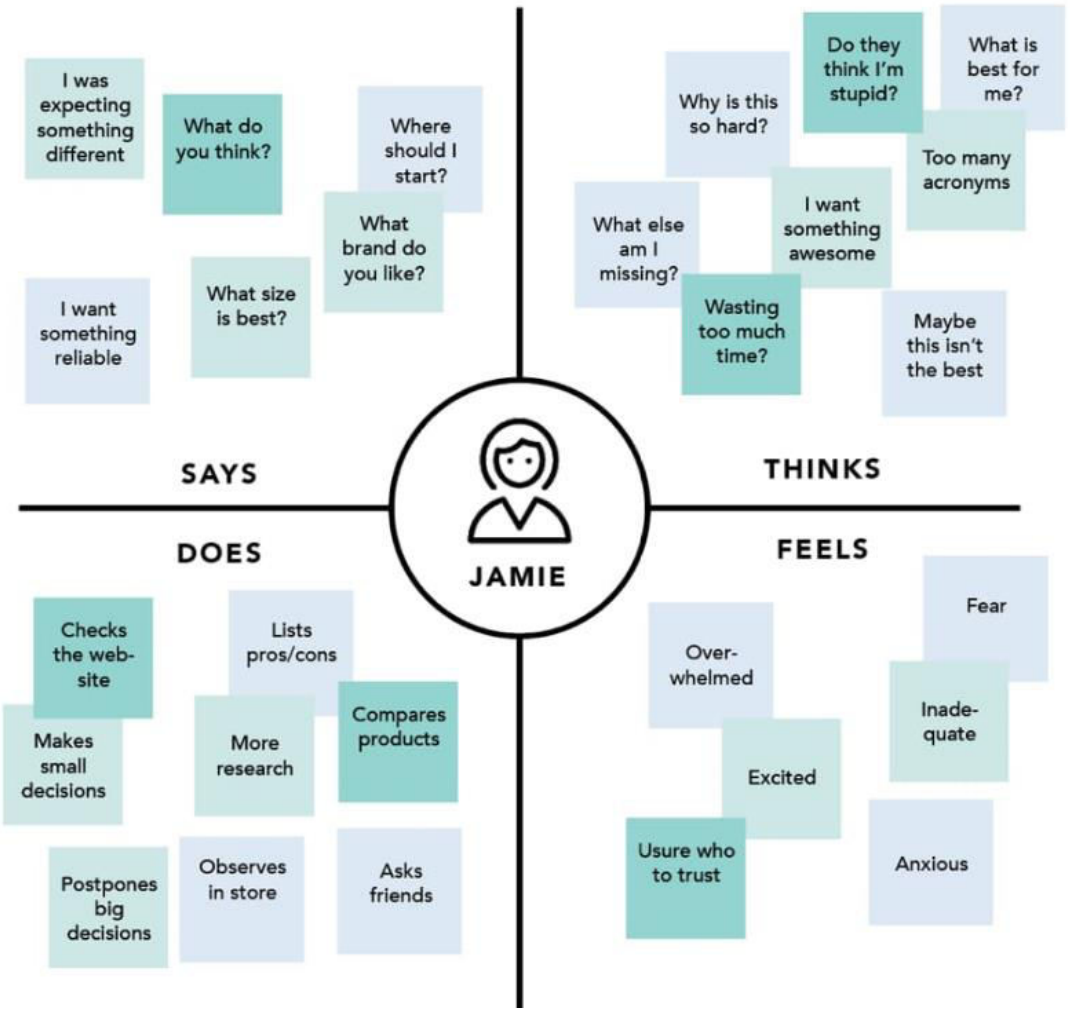
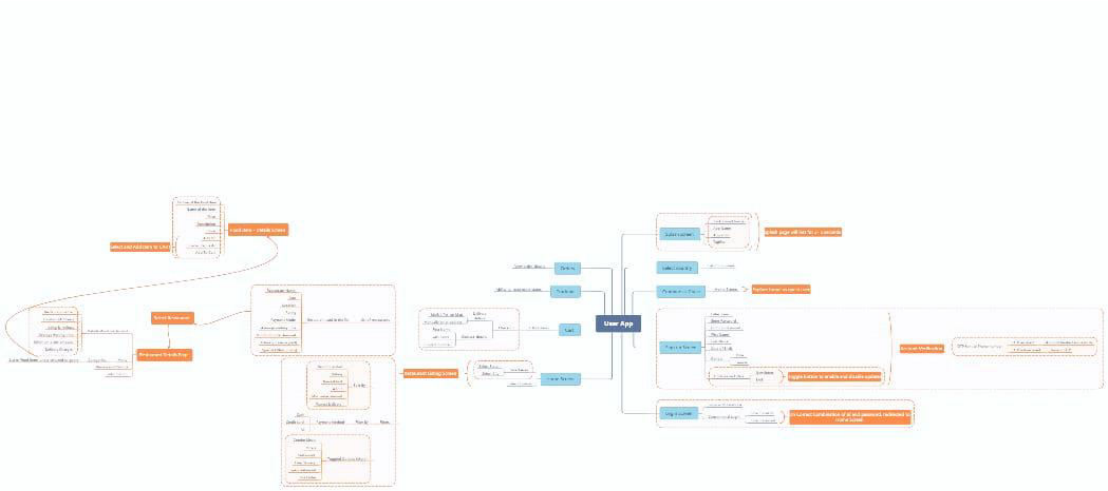
INTRODUCTION

A food delivery app that provides food delivery at your door in very less time and with the best packaging. Providing food from every famous food place near you. Order food with the best user experience.

Empathy map


I was expecting something different
What do you think?
Where should I start?
What brand do you like?
What size is best?
I want something reliable
Why is this so hard?
Do they think I'm stupid?
What is best for me?
Too many acronyms
What else am I missing?
I want something awesome
Wasting too much time?
Maybe this isn't the best
SAYS
THINKS
JAMIE
DOES
FEELS
Checks the web-site
Lists pros/cons
Makes small decisions
More research
Compares products
Postpones big decisions
Observes in store
Asks friends
Over-whelmed
Fear
Inade-quate
Excited
Usure who to trust
Anxious

Brainstorm



Map

Purpose

Snack ordering app connects consumers with local restaurants, grocery stores, convenience stores, etc., by providing a convenient way to order food that's delivered to their doorstep.

Advantages

Communicate when it matters most.

Improves safety and security

Accelerate your crisis response

Obtain consent

Learning outcomes

By end of this project:

● You'll be able to work on Android studio and build an app.

● You'll be able to integrate the database accordingly.

Project Workflow:

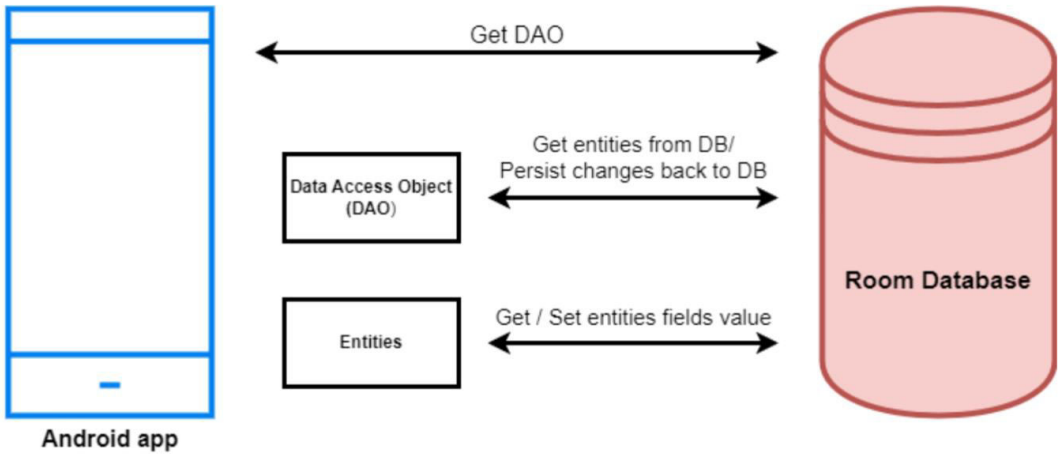
● Users register into the application.

● After registration , user logins into the application.

● User enters into the main page

● User can view the items,select and order the items

Architecture:



Source Code:

UI Theme:

Color.kt :

```
package com.example.snackordering.ui.theme


import androidx.compose.ui.graphics.Color


val Purple200 = Color(0xFFBB86FC)
val Purple500 = Color(0xFF6200EE)
val Purple700 = Color(0xFF3700B3)
```

```
val Teal200 = Color(0xFF03DAC5)
```

Shape.kt :

```
package com.example.snackordering.ui.theme


import
androidx.compose.foundation.shape.RoundedCornerShape
import androidx.compose.material.Shapes
import androidx.compose.ui.unit.dp

val Shapes = Shapes(
        small = RoundedCornerShape(4.dp),
        medium = RoundedCornerShape(4.dp),
        large = RoundedCornerShape(0.dp)
)
```

Theme.kt :

```
package com.example.snackordering.ui.theme
```

```
import androidx.compose.foundation.isSystemInDarkTheme
import androidx.compose.material.MaterialTheme
import androidx.compose.material.darkColors
import androidx.compose.material.lightColors
import androidx.compose.runtime.Composable

private val DarkColorPalette = darkColors(
        primary = Purple200,
        primaryVariant = Purple700,
        secondary = Teal200
)

private val LightColorPalette = lightColors(
        primary = Purple500,
        primaryVariant = Purple700,
        secondary = Teal200

        /* Other default colors to override
```

```
        background = Color.White,
        surface = Color.White,
        onPrimary = Color.White,
        onSecondary = Color.Black,
        onBackground = Color.Black,
        onSurface = Color.Black,
        */
)

@Composable
fun SnackOrderingTheme(
        darkTheme: Boolean = isSystemInDarkTheme(),
        content: @Composable () -> Unit
) {
        val colors = if (darkTheme) {
                DarkColorPalette
        } else {
                LightColorPalette
```

```
    }

    MaterialTheme(
        colors = colors,
        typography = Typography,
        shapes = Shapes,
        content = content
    )
}
```

Type.kt :

```
package com.example.snackordering.ui.theme

import
androidx.compose.foundation.shape.RoundedCornerShape
import androidx.compose.material.Shapes
import androidx.compose.ui.unit.dp

val Shapes = Shapes(
```

```
    small = RoundedCornerShape(4.dp),
    medium = RoundedCornerShape(4.dp),
    large = RoundedCornerShape(0.dp)
)
```

Type.kt :

```
package com.example.snackordering.ui.theme

import androidx.compose.material.Typography
import androidx.compose.ui.text.TextStyle
import androidx.compose.ui.text.font.FontFamily
import androidx.compose.ui.text.font.FontWeight
import androidx.compose.ui.unit.sp

// Set of Material typography styles to start with
val Typography = Typography(
    body1 = TextStyle(
        fontFamily = FontFamily.Default,
        fontWeight = FontWeight.Normal,
        fontSize = 16.sp
```

)

)

Activity code :

AdminActivity.kt :

```
package com.example.snackordering


import android.icu.text.SimpleDateFormat
import android.os.Bundle
import android.util.Log
import androidx.activity.ComponentActivity
import androidx.activity.compose.setContent
import androidx.compose.foundation.Image
import androidx.compose.foundation.layout.*
import androidx.compose.foundation.lazy.LazyColumn
import androidx.compose.foundation.lazy.LazyRow
import androidx.compose.foundation.lazy.items
import androidx.compose.material.MaterialTheme
import androidx.compose.material.Surface
import androidx.compose.material.Text
```

```
import androidx.compose.runtime.Composable
import androidx.compose.ui.Modifier
import androidx.compose.ui.graphics.Color
import androidx.compose.ui.layout.ContentScale
import androidx.compose.ui.res.painterResource
import androidx.compose.ui.unit.dp
import androidx.compose.ui.unit.sp
import
com.example.snackordering.ui.theme.SnackOrderingTheme
import java.util.*


class AdminActivity : ComponentActivity() {
    private lateinit var orderDatabaseHelper:
OrderDatabaseHelper
    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        orderDatabaseHelper =
OrderDatabaseHelper(this)
        setContent {
            SnackOrderingTheme {
                // A surface container using the
```

```
'background' color from the theme
                        Surface(
                            modifier = Modifier.fillMaxSize(),
                            color =
MaterialTheme.colors.background
                        ) {
                            val
data=orderDatabaseHelper.getAllOrders();
                            Log.d("swathi" ,data.toString())
                            val order =
orderDatabaseHelper.getAllOrders()
                            ListListScopeSample(order)
                        }
                    }
                }
        }
}

@Composable
fun ListListScopeSample(order: List<Order>) {
        Image(
```

```
            painterResource(id = R.drawable.order),
contentDescription = "",
            alpha =0.5F,
            contentScale = ContentScale.FillHeight)
        Text(text = "Order Tracking", modifier =
Modifier.padding(top = 24.dp, start = 106.dp, bottom =
24.dp ), color = Color.White, fontSize = 30.sp)
        Spacer(modifier = Modifier.height(30.dp))
        LazyRow(
            modifier = Modifier
                .fillMaxSize()
                .padding(top = 80.dp),

            horizontalArrangement =
Arrangement.SpaceBetween
        ){
            item {

                LazyColumn {
                    items(order) { order ->
                        Column(modifier =
```

```
Modifier.padding(top = 16.dp, start = 48.dp, bottom =
20.dp)) {
                                        Text("Quantity:
${order.quantity}")
                                        Text("Address:
${order.address}")
                                    }
                                }
                            }
                        }


        }
}
```

LoginActivity.kt :

```
package com.example.snackordering


import android.content.Context
import android.content.Intent
import android.os.Bundle
```

```
import androidx.activity.ComponentActivity
import androidx.activity.compose.setContent
import androidx.compose.foundation.Image
import androidx.compose.foundation.layout.*
import androidx.compose.material.*
import androidx.compose.runtime.*
import androidx.compose.ui.Alignment
import androidx.compose.ui.Modifier
import androidx.compose.ui.graphics.Color
import androidx.compose.ui.layout.ContentScale
import androidx.compose.ui.res.painterResource
import androidx.compose.ui.text.font.FontFamily
import androidx.compose.ui.text.font.FontWeight
import androidx.compose.ui.unit.dp
import androidx.compose.ui.unit.sp
import androidx.core.content.ContextCompat
import
com.example.snackordering.ui.theme.SnackOrderingTheme
```

```
class LoginActivity : ComponentActivity() {
    private lateinit var databaseHelper:
UserDatabaseHelper
    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        databaseHelper = UserDatabaseHelper(this)
        setContent {
            SnackOrderingTheme {
                // A surface container using the
'background' color from the theme
                Surface(
                    modifier = Modifier.fillMaxSize(),
                    color =
MaterialTheme.colors.background
                ) {
                    LoginScreen(this, databaseHelper)
                }
            }
```

```
            }
        }
}
@Composable
fun LoginScreen(context: Context, databaseHelper:
UserDatabaseHelper) {

        Image(painterResource(id = R.drawable.order),
contentDescription = "",
            alpha =0.3F,
            contentScale = ContentScale.FillHeight,

        )

        var username by remember { mutableStateOf("") }
        var password by remember { mutableStateOf("") }
        var error by remember { mutableStateOf("") }

        Column(
```

```
            modifier = Modifier.fillMaxSize(),
            horizontalAlignment =
Alignment.CenterHorizontally,
            verticalArrangement = Arrangement.Center
        ) {

            Text(
                fontSize = 36.sp,
                fontWeight = FontWeight.ExtraBold,
                fontFamily = FontFamily.Cursive,
                color = Color.White,
                text = "Login"
            )
            Spacer(modifier = Modifier.height(10.dp))

            TextField(
                value = username,
                onValueChange = { username = it },
```

```
        label = { Text("Username") },
        modifier = Modifier.padding(10.dp)
            .width(280.dp)
)

TextField(
        value = password,
        onValueChange = { password = it },
        label = { Text("Password") },
        modifier = Modifier.padding(10.dp)
            .width(280.dp)
)

if (error.isNotEmpty()) {
        Text(
            text = error,
            color = MaterialTheme.colors.error,
            modifier = Modifier.padding(vertical =
```

```
16.dp)
                    )
                }

                Button(
                    onClick = {
                        if (username.isNotEmpty() &&
password.isNotEmpty()) {
                            val user =
databaseHelper.getUserByUsername(username)
                            if (user != null && user.password
== password) {
                                error = "Successfully log in"
                                context.startActivity(
                                    Intent(
                                        context,

MainPage::class.java
                                    )
```

```
                                    )
                                    //onLoginSuccess()
                                }
                                    if (user != null &&
user.password == "admin") {
                                        error = "Successfully log
in"
                                        context.startActivity(
                                            Intent(
                                                context,

AdminActivity::class.java
                                            )
                                        )
                                    }
                                    else {
                                        error =    "Invalid
username or password"
                                    }
```

```
                } else {
                        error = "Please fill all fields"
                }
        },
        modifier = Modifier.padding(top = 16.dp)
) {
        Text(text = "Login")
}
Row {
        TextButton(onClick = {context.startActivity(
                Intent(
                        context,
                        MainActivity::class.java
                )
        )}
        )
        { Text(color = Color.White,text = "Sign up") }
```

```
                TextButton(onClick = {

                })


                {
                    Spacer(modifier =
Modifier.width(60.dp))
                    Text(color = Color.White,text = "Forget
password?")
                }
            }
        }
}
private fun startMainPage(context: Context) {
    val intent = Intent(context, MainPage::class.java)
    ContextCompat.startActivity(context, intent, null)
}
```

MainPage.kt :

```
package com.example.snackordering


import android.annotation.SuppressLint
import android.content.Context
import android.os.Bundle
import android.widget.Toast
import androidx.activity.ComponentActivity
import androidx.activity.compose.setContent
import androidx.annotation.DrawableRes
import androidx.annotation.StringRes
import androidx.compose.foundation.Image
import androidx.compose.foundation.background
import androidx.compose.foundation.layout.*
import androidx.compose.foundation.shape.CircleShape
import
androidx.compose.foundation.shape.RoundedCornerShape
import androidx.compose.material.*
import androidx.compose.material.icons.Icons
```

```
import androidx.compose.material.icons.filled.*
import androidx.compose.runtime.Composable
import androidx.compose.ui.Alignment
import androidx.compose.ui.Modifier
import androidx.compose.ui.draw.clip
import androidx.compose.ui.graphics.Color
import androidx.compose.foundation.lazy.LazyColumn
import androidx.compose.foundation.lazy.items
import androidx.compose.material.Text
import androidx.compose.ui.unit.dp
import androidx.compose.ui.graphics.RectangleShape
import androidx.compose.ui.layout.ContentScale
import androidx.compose.ui.platform.LocalContext
import androidx.compose.ui.res.painterResource
import androidx.compose.ui.res.stringResource
import androidx.compose.ui.text.font.FontWeight
import androidx.compose.ui.unit.sp
import androidx.core.content.ContextCompat.startActivity
```

```
import
com.example.snackordering.ui.theme.SnackOrderingTheme

import android.content.Intent as Intent1


class MainPage : ComponentActivity() {
        override fun onCreate(savedInstanceState: Bundle?) {
                super.onCreate(savedInstanceState)
                setContent {
                        SnackOrderingTheme {
                                // A surface container using the
'background' color from the theme
                                Surface(
                                        modifier = Modifier.fillMaxSize(),
                                        color =
MaterialTheme.colors.background
                                ) {
                                        FinalView(this)
```

```
                                val context = LocalContext.current
                                //PopularFoodColumn(context)
                            }
                        }
                    }
                }
            }

@Composable
fun TopPart() {

        Row(
            modifier = Modifier
                .fillMaxWidth()
                .background(Color(0xffeceef0)),
Arrangement.SpaceBetween
        ) {
```

```
            Icon(
                imageVector = Icons.Default.Add,
contentDescription = "Menu Icon",
                Modifier


                    .clip(CircleShape)
                    .size(40.dp),
                tint = Color.Black,
            )
            Column(horizontalAlignment =
Alignment.CenterHorizontally) {
                Text(text = "Location", style =
MaterialTheme.typography.subtitle1, color = Color.Black)
                Row {
                    Icon(
                        imageVector =
Icons.Default.LocationOn,
                        contentDescription = "Location",
                        tint = Color.Red,
```

```
                )
                Text(text = "Accra" , color = Color.Black)
            }


        }
        Icon(
            imageVector = Icons.Default.Notifications,
contentDescription = "Notification Icon",

            Modifier
                .size(45.dp),
            tint = Color.Black,
        )
    }
}

@Composable
fun CardPart() {
```

```
        Card(modifier = Modifier.size(width = 310.dp, height =
150.dp), RoundedCornerShape(20.dp)) {

                Row(modifier = Modifier.padding(10.dp),
Arrangement.SpaceBetween) {

                        Column(verticalArrangement =
Arrangement.spacedBy(12.dp)) {

                                Text(text = "Get Special Discounts")

                                Text(text = "up to 85%", style =
MaterialTheme.typography.h5)

                                Button(onClick = {}, colors =
ButtonDefaults.buttonColors(Color.White)) {

                                        Text(text = "Claim voucher", color
= MaterialTheme.colors.surface)

                                }

                        }

                        Image(

                                painter = painterResource(id =
R.drawable.food_tip_im),

                                contentDescription = "Food Image",
Modifier.size(width = 100.dp, height = 200.dp)
```

```
                    )
                }
            }
}


@Composable
fun PopularFood(
        @DrawableRes drawable: Int,
        @StringRes text1: Int,
        context: Context
) {
        Card(
                modifier = Modifier
                        .padding(top=20.dp, bottom = 20.dp, start =
65.dp)
                        .width(250.dp)
```

```
        ) {
            Column(
                verticalArrangement = Arrangement.Top,
                horizontalAlignment =
Alignment.CenterHorizontally
            ) {
                Spacer(modifier = Modifier.padding(vertical
= 5.dp))
                Row(
                    modifier = Modifier
                        .fillMaxWidth(0.7f),
Arrangement.End
                ) {
                    Icon(
                        imageVector = Icons.Default.Star,
                        contentDescription = "Star Icon",
                        tint = Color.Yellow
                    )
                    Text(text = "4.3", fontWeight =
```

```
FontWeight.Black)
                }
                Image(
                    painter = painterResource(id =
drawable),
                    contentDescription = "Food Image",
                    contentScale = ContentScale.Crop,
                    modifier = Modifier
                        .size(100.dp)
                        .clip(CircleShape)
                )
                Text(text = stringResource(id = text1),
fontWeight = FontWeight.Bold)
                Row(modifier = Modifier.fillMaxWidth(0.7f),
Arrangement.SpaceBetween) {
                    /*TODO Implement Prices for each
card*/
                    Text(
                        text = "$50",
```

```
                    style =
MaterialTheme.typography.h6,
                    fontWeight = FontWeight.Bold,
                    fontSize = 18.sp
                )

                IconButton(onClick = {

                    //var no=FoodList.lastIndex;
                    //Toast.
                    val intent = Intent1(context,
TargetActivity::class.java)
                    context.startActivity(intent)

                }) {
                    Icon(
                        imageVector =
Icons.Default.ShoppingCart,
                        contentDescription =
```

```
"shopping cart",
                                    )
                                }
                            }
                        }
                    }
}
private val FoodList = listOf(
        R.drawable.sandwish to R.string.sandwich,
        R.drawable.sandwish to R.string.burgers,
        R.drawable.pack to R.string.pack,
        R.drawable.pasta to R.string.pasta,
        R.drawable.tequila to R.string.tequila,
        R.drawable.wine to R.string.wine,
        R.drawable.salad to R.string.salad,
        R.drawable.pop to R.string.popcorn
).map { DrawableStringPair(it.first, it.second) }
```

```
private data class DrawableStringPair(
        @DrawableRes val drawable: Int,
        @StringRes val text1: Int
)



@Composable
fun App(context: Context) {

        Column(
                modifier = Modifier
                        .fillMaxSize()
                        .background(Color(0xffeceef0))
                        .padding(10.dp),
                verticalArrangement = Arrangement.Top,
                horizontalAlignment =
Alignment.CenterHorizontally
        ) {
```

```
            Surface(modifier = Modifier, elevation = 5.dp) {
                TopPart()
            }
            Spacer(modifier = Modifier.padding(10.dp))
            CardPart()

            Spacer(modifier = Modifier.padding(10.dp))
            Row(modifier = Modifier.fillMaxWidth(),
Arrangement.SpaceBetween) {
                Text(text = "Popular Food", style =
MaterialTheme.typography.h5, color = Color.Black)
                Text(text = "view all", style =
MaterialTheme.typography.subtitle1,    color = Color.Black)
            }
            Spacer(modifier = Modifier.padding(10.dp))
            PopularFoodColumn(context) // <- call the
function with parentheses
        }
}
```

```
@Composable
fun PopularFoodColumn(context: Context) {

    LazyColumn(
        modifier = Modifier.fillMaxSize(),

        content = {
            items(FoodList) { item ->
                PopularFood(context =
context,drawable = item.drawable, text1 = item.text1)
                abstract class Context
            }
        },
        verticalArrangement =
Arrangement.spacedBy(16.dp))
```

```
}



@SuppressLint("UnusedMaterialScaffoldPaddingParameter"
)
@Composable
fun FinalView(mainPage: MainPage) {
        SnackOrderingTheme {
                Scaffold() {
                        val context = LocalContext.current
                        App(context)
                }
        }
}
```

Order.kt :

```
package com.example.snackordering
```

```
import androidx.room.ColumnInfo
import androidx.room.Entity
import androidx.room.PrimaryKey

@Entity(tableName = "order_table")
data class Order(
    @PrimaryKey(autoGenerate = true) val id: Int?,
    @ColumnInfo(name = "quantity") val quantity: String?,
    @ColumnInfo(name = "address") val address: String?,
)
```

Database code

OrderDao.kt :

```
package com.example.snackordering

import androidx.room.*

@Dao
```

```
interface OrderDao {


    @Query("SELECT * FROM order_table WHERE
address= :address")

    suspend fun getOrderByAddress(address: String):
Order?


    @Insert(onConflict = OnConflictStrategy.REPLACE)

    suspend fun insertOrder(order: Order)


    @Update

    suspend fun updateOrder(order: Order)


    @Delete

    suspend fun deleteOrder(order: Order)
}
```

Orderdatabase.kt :

```
package com.example.snackordering

import android.content.Context
import androidx.room.Database
import androidx.room.Room
import androidx.room.RoomDatabase

@Database(entities = [Order::class], version = 1)
abstract class OrderDatabase : RoomDatabase() {

    abstract fun orderDao(): OrderDao

    companion object {

        @Volatile
        private var instance: OrderDatabase? = null

        fun getDatabase(context: Context):
```

```
OrderDatabase {
                return instance ?: synchronized(this) {
                    val newInstance =
Room.databaseBuilder(
                        context.applicationContext,
                        OrderDatabase::class.java,
                        "order_database"
                    ).build()
                    instance = newInstance
                    newInstance
                }
            }
        }
}
```

OrderdatabaseHelper.kt :

```
package com.example.snackordering
```

```
import android.annotation.SuppressLint
import android.content.ContentValues
import android.content.Context
import android.database.Cursor
import android.database.sqlite.SQLiteDatabase
import android.database.sqlite.SQLiteOpenHelper

class OrderDatabaseHelper(context: Context) :
        SQLiteOpenHelper(context, DATABASE_NAME,
null,DATABASE_VERSION){

    companion object {
        private const val DATABASE_VERSION = 1
        private const val DATABASE_NAME =
"OrderDatabase.db"

        private const val TABLE_NAME = "order_table"
        private const val COLUMN_ID = "id"
        private const val COLUMN_QUANTITY = "quantity"
```

```
        private const val COLUMN_ADDRESS = "address"
    }

    override fun onCreate(db: SQLiteDatabase?) {
        val createTable = "CREATE TABLE $TABLE_NAME
(" +
                "${COLUMN_ID} INTEGER PRIMARY KEY
AUTOINCREMENT, " +
                "${COLUMN_QUANTITY} Text, " +
                "${COLUMN_ADDRESS} TEXT " +
                ")"

        db?.execSQL(createTable)
    }

    override fun onUpgrade(db: SQLiteDatabase?,
oldVersion: Int, newVersion: Int) {
        db?.execSQL("DROP TABLE IF EXISTS
$TABLE_NAME")
```

```
        onCreate(db)
}

fun insertOrder(order: Order) {
        val db = writableDatabase
        val values = ContentValues()
        values.put(COLUMN_QUANTITY, order.quantity)
        values.put(COLUMN_ADDRESS, order.address)
        db.insert(TABLE_NAME, null, values)
        db.close()
}



@SuppressLint("Range")
fun getOrderByQuantity(quantity: String): Order? {
        val db = readableDatabase
        val cursor: Cursor = db.rawQuery("SELECT * FROM
```

```
$TABLE_NAME WHERE $COLUMN_QUANTITY = ?",
arrayOf(quantity))
            var order: Order? = null
            if (cursor.moveToFirst()) {
                order = Order(
                    id =
cursor.getInt(cursor.getColumnIndex(COLUMN_ID)),
                    quantity =
cursor.getString(cursor.getColumnIndex(COLUMN_QUANTIT
Y)),
                    address =
cursor.getString(cursor.getColumnIndex(COLUMN_ADDRESS
)),
                )
            }
            cursor.close()
            db.close()
            return order
        }
        @SuppressLint("Range")
```

```
    fun getOrderById(id: Int): Order? {
        val db = readableDatabase
        val cursor: Cursor = db.rawQuery("SELECT * FROM $TABLE_NAME WHERE $COLUMN_ID = ?", arrayOf(id.toString()))
        var order: Order? = null
        if (cursor.moveToFirst()) {
            order = Order(
                id = cursor.getInt(cursor.getColumnIndex(COLUMN_ID)),
                quantity = cursor.getString(cursor.getColumnIndex(COLUMN_QUANTITY)),
                address = cursor.getString(cursor.getColumnIndex(COLUMN_ADDRESS)),
            )
        }
        cursor.close()
        db.close()
```

```
            return order
        }

        @SuppressLint("Range")
        fun getAllOrders(): List<Order> {
            val orders = mutableListOf<Order>()
            val db = readableDatabase
            val cursor: Cursor = db.rawQuery("SELECT * FROM
$TABLE_NAME", null)
            if (cursor.moveToFirst()) {
                do {
                    val order = Order(
                        id =
cursor.getInt(cursor.getColumnIndex(COLUMN_ID)),
                        quantity =
cursor.getString(cursor.getColumnIndex(COLUMN_QUANTIT
Y)),
                        address =
cursor.getString(cursor.getColumnIndex(COLUMN_ADDRESS
)),
```

```
                    )
                    orders.add(order)
                } while (cursor.moveToNext())
            }
            cursor.close()
            db.close()
            return orders
        }

}
```

RegisterActivity.kt :

```
package com.example.snackordering

import android.content.Context
import android.content.Intent
import android.os.Bundle
import androidx.activity.ComponentActivity
```

```
import androidx.activity.compose.setContent
import androidx.compose.foundation.Image
import androidx.compose.foundation.layout.*
import androidx.compose.material.*
import androidx.compose.runtime.*
import androidx.compose.ui.Alignment
import androidx.compose.ui.Modifier
import androidx.compose.ui.graphics.Color
import androidx.compose.ui.layout.ContentScale
import androidx.compose.ui.res.painterResource
import androidx.compose.ui.text.font.FontFamily
import androidx.compose.ui.text.font.FontWeight
import androidx.compose.ui.unit.dp
import androidx.compose.ui.unit.sp
import androidx.core.content.ContextCompat
import
com.example.snackordering.ui.theme.SnackOrderingTheme
```

```
class MainActivity : ComponentActivity() {
        private lateinit var databaseHelper:
UserDatabaseHelper
        override fun onCreate(savedInstanceState: Bundle?) {
                super.onCreate(savedInstanceState)
                databaseHelper = UserDatabaseHelper(this)
                setContent {
                        SnackOrderingTheme {
                                // A surface container using the
'background' color from the theme
                                Surface(
                                        modifier = Modifier.fillMaxSize(),
                                        color =
MaterialTheme.colors.background
                                ) {


RegistrationScreen(this,databaseHelper)
                                }
```

```
                    }
                }
            }
        }
```

```
@Composable
fun RegistrationScreen(context: Context, databaseHelper:
UserDatabaseHelper) {

        Image(
            painterResource(id = R.drawable.order),
contentDescription = "",
            alpha =0.3F,
            contentScale = ContentScale.FillHeight,

            )

        var username by remember { mutableStateOf("") }
```

```
    var password by remember { mutableStateOf("") }
    var email by remember { mutableStateOf("") }
    var error by remember { mutableStateOf("") }

    Column(
        modifier = Modifier.fillMaxSize(),
        horizontalAlignment =
Alignment.CenterHorizontally,
        verticalArrangement = Arrangement.Center
    ) {

        Text(
            fontSize = 36.sp,
            fontWeight = FontWeight.ExtraBold,
            fontFamily = FontFamily.Cursive,
            color = Color.White,
            text = "Register"
        )
```

```
Spacer(modifier = Modifier.height(10.dp))
TextField(
        value = username,
        onValueChange = { username = it },
        label = { Text("Username") },
        modifier = Modifier
                .padding(10.dp)
                .width(280.dp)

)

TextField(
        value = email,
        onValueChange = { email = it },
        label = { Text("Email") },
        modifier = Modifier
                .padding(10.dp)
```

```
                .width(280.dp)
    )

    TextField(
            value = password,
            onValueChange = { password = it },
            label = { Text("Password") },
            modifier = Modifier
                    .padding(10.dp)
                    .width(280.dp)
    )



    if (error.isNotEmpty()) {
            Text(
                    text = error,
                    color = MaterialTheme.colors.error,
                    modifier = Modifier.padding(vertical =
```

```
16.dp)
                    )
                }

                Button(
                    onClick = {
                        if (username.isNotEmpty() &&
password.isNotEmpty() && email.isNotEmpty()) {
                            val user = User(
                                id = null,
                                firstName = username,
                                lastName = null,
                                email = email,
                                password = password
                            )
                            databaseHelper.insertUser(user)
                            error = "User registered
successfully"
                            // Start LoginActivity using the
```

```
current context
                                context.startActivity(
                                    Intent(
                                        context,
                                        LoginActivity::class.java
                                    )
                                )


                            } else {
                                error = "Please fill all fields"
                            }
                        },
                        modifier = Modifier.padding(top = 16.dp)
                    ) {
                        Text(text = "Register")
                    }
                    Spacer(modifier = Modifier.width(10.dp))
                    Spacer(modifier = Modifier.height(10.dp))
```

```
        Row() {
            Text(
                modifier = Modifier.padding(top =
14.dp), text = "Have an account?"
            )
            TextButton(onClick = {
                context.startActivity(
                    Intent(
                        context,
                        LoginActivity::class.java
                    )
                )
            })

            {
                Spacer(modifier =
Modifier.width(10.dp))
                Text(text = "Log in")
```

```
                    }
                }
            }
        }
        private fun startLoginActivity(context: Context) {
            val intent = Intent(context, LoginActivity::class.java)
            ContextCompat.startActivity(context, intent, null)
        }
```

TargetActivity.kt :

```
package com.example.snackordering


import android.content.Context
import android.content.Intent
import android.os.Bundle
import android.util.Log
import android.widget.Toast
import androidx.activity.ComponentActivity
```

```
import androidx.activity.compose.setContent
import androidx.compose.foundation.Image
import androidx.compose.foundation.background
import androidx.compose.foundation.layout.*
import androidx.compose.foundation.text.KeyboardActions
import androidx.compose.foundation.text.KeyboardOptions
import androidx.compose.material.*
import androidx.compose.runtime.*
import androidx.compose.ui.Alignment
import androidx.compose.ui.Modifier
import androidx.compose.ui.graphics.Color
import androidx.compose.ui.layout.ContentScale
import androidx.compose.ui.platform.LocalContext
import
androidx.compose.ui.platform.textInputServiceFactory
import androidx.compose.ui.res.painterResource
import androidx.compose.ui.text.input.KeyboardType
import androidx.compose.ui.tooling.preview.Preview
```

```
import androidx.compose.ui.unit.dp

import androidx.core.content.ContextCompat

import
com.example.snackordering.ui.theme.SnackOrderingTheme


class TargetActivity : ComponentActivity() {

    private lateinit var orderDatabaseHelper:
OrderDatabaseHelper

    override fun onCreate(savedInstanceState: Bundle?) {

        super.onCreate(savedInstanceState)

        orderDatabaseHelper =
OrderDatabaseHelper(this)

        setContent {

            SnackOrderingTheme {

                // A surface container using the
'background' color from the theme

                Surface(

                    modifier = Modifier

                        .fillMaxSize()
```

```
                                .background(Color.White)


                        ) {
                            Order(this, orderDatabaseHelper)
                            val orders =
orderDatabaseHelper.getAllOrders()
                            Log.d("swathi", orders.toString())


                        }
                    }
                }
            }
}


@Composable
fun Order(context: Context, orderDatabaseHelper:
OrderDatabaseHelper){
    Image(painterResource(id = R.drawable.order),
contentDescription = "",
```

```
            alpha =0.5F,
        contentScale = ContentScale.FillHeight)
        Column(
            horizontalAlignment =
Alignment.CenterHorizontally,
            verticalArrangement = Arrangement.Center) {

            val mContext = LocalContext.current
            var quantity by remember { mutableStateOf("") }
            var address by remember { mutableStateOf("") }
            var error by remember { mutableStateOf("") }


            TextField(value = quantity, onValueChange =
{quantity=it},
                    label = { Text("Quantity") },
                keyboardOptions =
KeyboardOptions(keyboardType = KeyboardType.Number),
                    modifier = Modifier
```

```
                .padding(10.dp)
                .width(280.dp))

        Spacer(modifier = Modifier.padding(10.dp))

        TextField(value = address, onValueChange =
{address=it},
            label = { Text("Address") },
            modifier = Modifier
                .padding(10.dp)
                .width(280.dp))

        Spacer(modifier = Modifier.padding(10.dp))


        if (error.isNotEmpty()) {
            Text(
                text = error,
```

```
                    color = MaterialTheme.colors.error,
                    modifier = Modifier.padding(vertical =
16.dp)
                )
            }


            Button(onClick = {
                if( quantity.isNotEmpty() and
address.isNotEmpty()){
                    val order = Order(
                        id = null,
                        quantity = quantity,
                        address = address
                    )

orderDatabaseHelper.insertOrder(order)
                    Toast.makeText(mContext, "Order Placed
Successfully", Toast.LENGTH_SHORT).show()}
```

```
            },
                colors =
ButtonDefaults.buttonColors(backgroundColor =
Color.White))
            {
                Text(text = "Order Place", color = Color.Black)
            }



        }
}
private fun startMainPage(context: Context) {
        val intent = Intent(context, LoginActivity::class.java)
        ContextCompat.startActivity(context, intent, null)
}
```

User.kt :

```
package com.example.snackordering
```

```
import androidx.room.ColumnInfo
import androidx.room.Entity
import androidx.room.PrimaryKey

@Entity(tableName = "user_table")
data class User(
    @PrimaryKey(autoGenerate = true) val id: Int?,
    @ColumnInfo(name = "first_name") val firstName: String?,
    @ColumnInfo(name = "last_name") val lastName: String?,
    @ColumnInfo(name = "email") val email: String?,
    @ColumnInfo(name = "password") val password: String?,

    )
```

UserDao.kt :

```
package com.example.snackordering

import androidx.room.*

@Dao
interface UserDao {

    @Query("SELECT * FROM user_table WHERE email = :email")
    suspend fun getUserByEmail(email: String): User?

    @Insert(onConflict = OnConflictStrategy.REPLACE)
    suspend fun insertUser(user: User)

    @Update
    suspend fun updateUser(user: User)

    @Delete
```

```
    suspend fun deleteUser(user: User)
}
```

UserDatabase.kt :

```
package com.example.snackordering

import android.content.Context
import androidx.room.Database
import androidx.room.Room
import androidx.room.RoomDatabase

@Database(entities = [User::class], version = 1)
abstract class UserDatabase : RoomDatabase() {

    abstract fun userDao(): UserDao

    companion object {
```

```
        @Volatile
        private var instance: UserDatabase? = null

        fun getDatabase(context: Context): UserDatabase
{
            return instance ?: synchronized(this) {
                val newInstance =
Room.databaseBuilder(
                    context.applicationContext,
                    UserDatabase::class.java,
                    "user_database"
                ).build()
                instance = newInstance
                newInstance
            }
        }
    }
}
```

UserDatabaseHelper.kt :

```
package com.example.snackordering


import android.annotation.SuppressLint
import android.content.ContentValues
import android.content.Context
import android.database.Cursor
import android.database.sqlite.SQLiteDatabase
import android.database.sqlite.SQLiteOpenHelper


class UserDatabaseHelper(context: Context) :
        SQLiteOpenHelper(context, DATABASE_NAME, null,
DATABASE_VERSION) {


        companion object {
                private const val DATABASE_VERSION = 1
                private const val DATABASE_NAME =
"UserDatabase.db"
```

```
        private const val TABLE_NAME = "user_table"
        private const val COLUMN_ID = "id"
        private const val COLUMN_FIRST_NAME =
"first_name"
        private const val COLUMN_LAST_NAME =
"last_name"
        private const val COLUMN_EMAIL = "email"
        private const val COLUMN_PASSWORD =
"password"
    }


    override fun onCreate(db: SQLiteDatabase?) {
        val createTable = "CREATE TABLE $TABLE_NAME
(" +
                "$COLUMN_ID INTEGER PRIMARY KEY
AUTOINCREMENT, " +
                "$COLUMN_FIRST_NAME TEXT, " +
                "$COLUMN_LAST_NAME TEXT, " +
```

```
                "$COLUMN_EMAIL TEXT, " +
                "$COLUMN_PASSWORD TEXT" +
                ")"

        db?.execSQL(createTable)
    }

    override fun onUpgrade(db: SQLiteDatabase?, oldVersion: Int, newVersion: Int) {
        db?.execSQL("DROP TABLE IF EXISTS $TABLE_NAME")
        onCreate(db)
    }

    fun insertUser(user: User) {
        val db = writableDatabase
        val values = ContentValues()
        values.put(COLUMN_FIRST_NAME, user.firstName)
```

```
            values.put(COLUMN_LAST_NAME, user.lastName)
            values.put(COLUMN_EMAIL, user.email)
            values.put(COLUMN_PASSWORD, user.password)
            db.insert(TABLE_NAME, null, values)
            db.close()
        }

        @SuppressLint("Range")
        fun getUserByUsername(username: String): User? {
            val db = readableDatabase
            val cursor: Cursor = db.rawQuery("SELECT * FROM
$TABLE_NAME WHERE $COLUMN_FIRST_NAME = ?",
arrayOf(username))
            var user: User? = null
            if (cursor.moveToFirst()) {
                user = User(
                    id =
cursor.getInt(cursor.getColumnIndex(COLUMN_ID)),
                    firstName =
```

```
cursor.getString(cursor.getColumnIndex(COLUMN_FIRST_NAME)),
                        lastName = cursor.getString(cursor.getColumnIndex(COLUMN_LAST_NAME)),
                        email = cursor.getString(cursor.getColumnIndex(COLUMN_EMAIL)),
                        password = cursor.getString(cursor.getColumnIndex(COLUMN_PASSWORD)),
                    )
            }
            cursor.close()
            db.close()
            return user
        }
        @SuppressLint("Range")
        fun getUserById(id: Int): User? {
            val db = readableDatabase
            val cursor: Cursor = db.rawQuery("SELECT * FROM
```

```
$TABLE_NAME WHERE $COLUMN_ID = ?",
arrayOf(id.toString()))
            var user: User? = null
            if (cursor.moveToFirst()) {
                user = User(
                    id =
cursor.getInt(cursor.getColumnIndex(COLUMN_ID)),
                    firstName =
cursor.getString(cursor.getColumnIndex(COLUMN_FIRST_N
AME)),
                    lastName =
cursor.getString(cursor.getColumnIndex(COLUMN_LAST_NA
ME)),
                    email =
cursor.getString(cursor.getColumnIndex(COLUMN_EMAIL)),
                    password =
cursor.getString(cursor.getColumnIndex(COLUMN_PASSWO
RD)),
                )
            }
```

```
            cursor.close()
            db.close()
            return user
        }

        @SuppressLint("Range")
        fun getAllUsers(): List<User> {
            val users = mutableListOf<User>()
            val db = readableDatabase
            val cursor: Cursor = db.rawQuery("SELECT * FROM
$TABLE_NAME", null)
            if (cursor.moveToFirst()) {
                do {
                    val user = User(
                        id =
cursor.getInt(cursor.getColumnIndex(COLUMN_ID)),
                        firstName =
cursor.getString(cursor.getColumnIndex(COLUMN_FIRST_N
AME)),
```

```
                    lastName =
cursor.getString(cursor.getColumnIndex(COLUMN_LAST_NAME)),
                    email =
cursor.getString(cursor.getColumnIndex(COLUMN_EMAIL)),
                    password =
cursor.getString(cursor.getColumnIndex(COLUMN_PASSWORD)),
                )
                users.add(user)
            } while (cursor.moveToNext())
        }
        cursor.close()
        db.close()
        return users
    }

}
```

AndroidManifest.xml :

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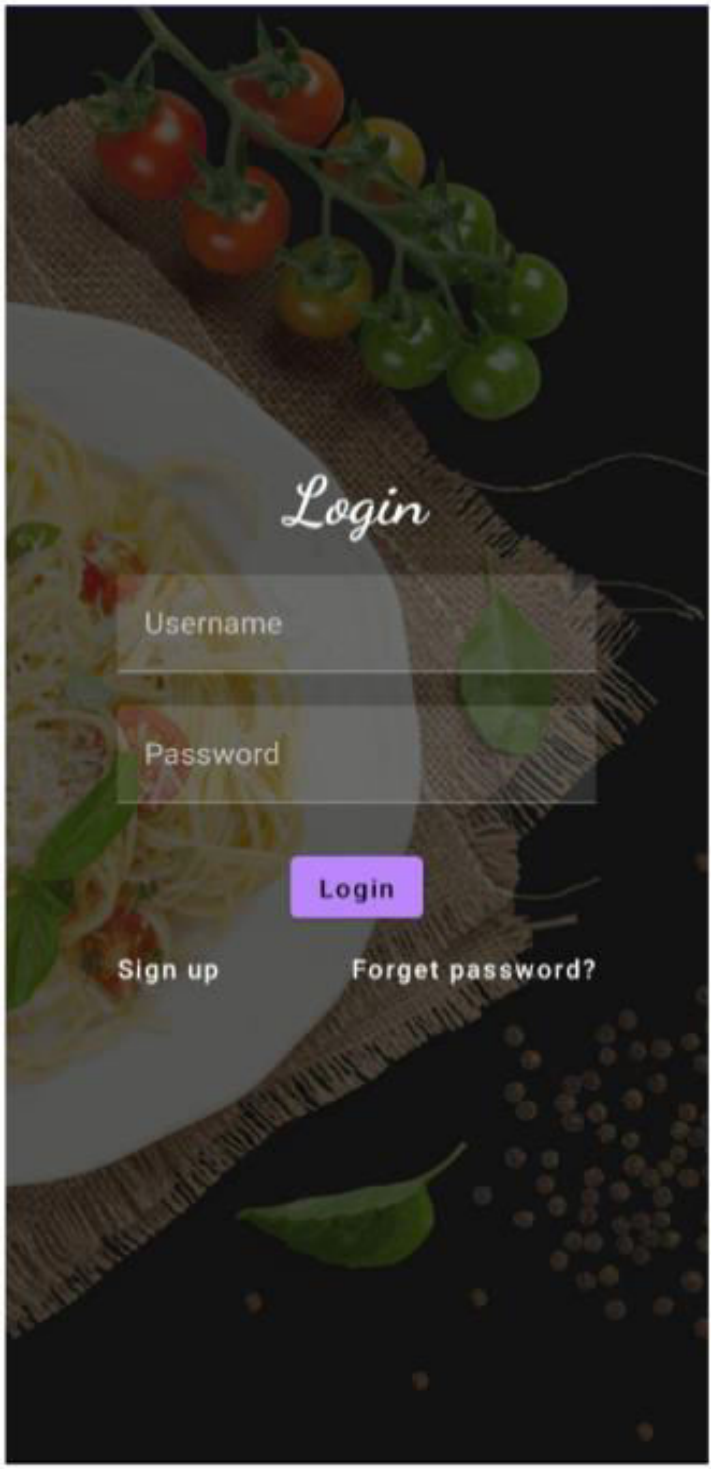
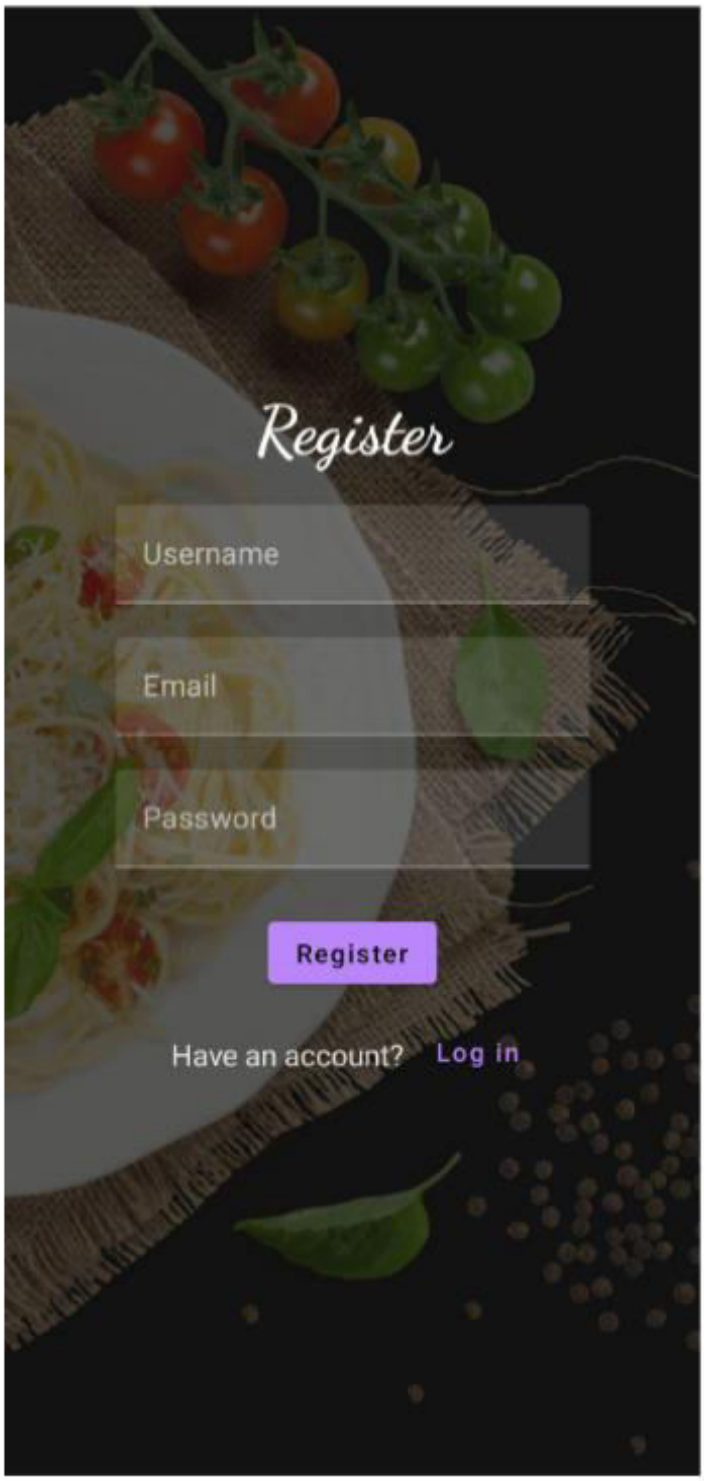
Output :

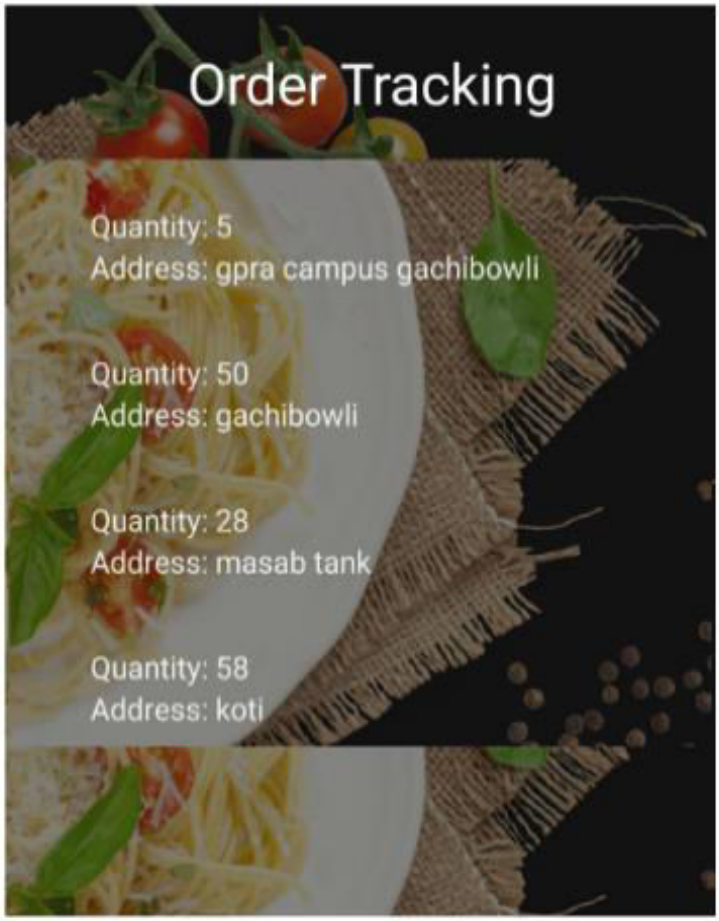
Login Page:


Login
Username
Password
Login
Sign up
Forget password?

Register Page :



Admin Page :



Main Page :

Location
Accra

Get Special Discounts

up to 85%

Claim voucher

Popular Food

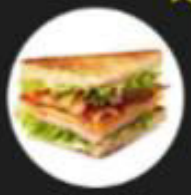
view all

4.3

Sandwich

$50

4.3



Burger

$50

Order Page :