Snack Ordering

Description

We are excited to submit our proposal for the development of a comprehensive Snack Ordering System designed to streamline and enhance the snack selection and purchasing experience. Our solution will include a userfriendly platform, allowing customers to easily browse, select, and purchase their favorite snacks. The system will feature a dynamic menu with real-time inventory updates, seamless payment integration, and order tracking capabilities. Our team will ensure that the platform is scalable, secure, and optimized for both web and mobile devices. Additionally, we will incorporate an intuitive admin panel for managing product listings, orders, and customer data. We are committed to delivering a high-quality solution on time and within budget, with full support and maintenance post-launch to ensure continued functionality and success.

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 = Material Theme.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 = Material Theme.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 (0xffece ef 0)),\ Arrangement. Space Between
     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,
       horizontal Alignment = Alignment. Center Horizontally \\
       Spacer(modifier = Modifier.padding(vertical = 5.dp))
       Row(
```

```
companion object {
     @Volatile
    private var instance: OrderDatabase? = null
    fun getDatabase(context: Context): OrderDatabase {
       return instance ?: synchronized(this) {
         val newInstance = Room.databaseBuilder(
           context. application Context,\\
           OrderDatabase::class.java,
           "order_database"
         ).build()
         instance = newInstance
         newInstance
OrderDatabaseHelper
package com.example.snackordering
import\ and roid. annotation. Suppress Lint
import android.content.ContentValues
import android.content.Context
import android.database.Cursor
import\ and roid. database. sqlite. SQLiteDatabase
import\ and roid. database. sqlite. SQLite Open Helper
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("DROPTABLE 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\_QUANTITY)),
      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_QUANTITY)),
        address = cursor.getString(cursor.getColumnIndex(COLUMN\_ADDRESS)),
      orders.add(order)
    } while (cursor.moveToNext())
  cursor.close()
  db.close()
  return orders
```

RegisterActivity

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\ and roid x. compose. ui.layout. Content Scale
import androidx.compose.ui.res.painterResource
import androidx.compose.ui.text.font.FontFamily
import\ and roidx. compose. ui. text. font. Font Weight
import androidx.compose.ui.unit.dp
import androidx.compose.ui.unit.sp
import androidx.core.content.ContextCompat
import\ com. example. snack ordering. ui. theme. Snack Ordering Theme
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 = Material Theme.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(),
     horizontal Alignment = Alignment. Center Horizontally, \\
     vertical Arrangement = 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(
    if \ (username.isNotEmpty() \ \&\& \ password.isNotEmpty() \ \&\& \ email.isNotEmpty()) \ \{
       val user = User(
         id = null,
         firstName = username,
         lastName = null,
         email = email,
         password = password
```

```
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 = Material Theme.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
         order Database Helper. insert Order (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)
```

UserDatabase

package com.example.snackordering

```
import android.content.Context
import androidx.room.Database
import androidx.room.Room
import\ and roid x. room. Room Database
@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

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

```
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, " +
        "$COLUMN_EMAILTEXT, " +
        "$COLUMN_PASSWORD TEXT" +
    db?.execSQL(createTable)
  override fun onUpgrade(db: SQLiteDatabase?, oldVersion: Int, newVersion: Int) {
    db?.execSQL("DROPTABLE 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\_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 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_NAME)),
        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
```

THEME

Color

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

package com.example.snackordering.ui.theme

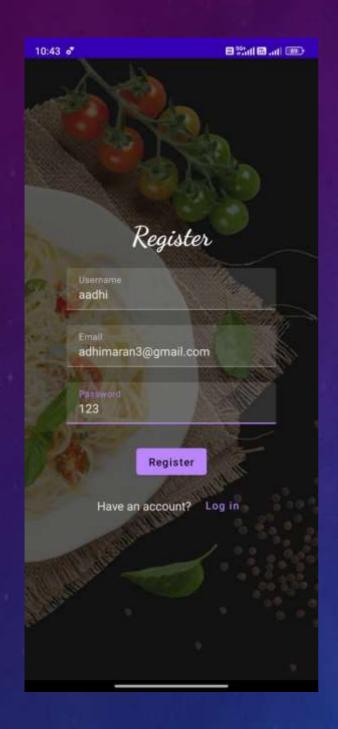
 $import\ and roid x. compose. foundation. shape. Rounded Corner Shape$

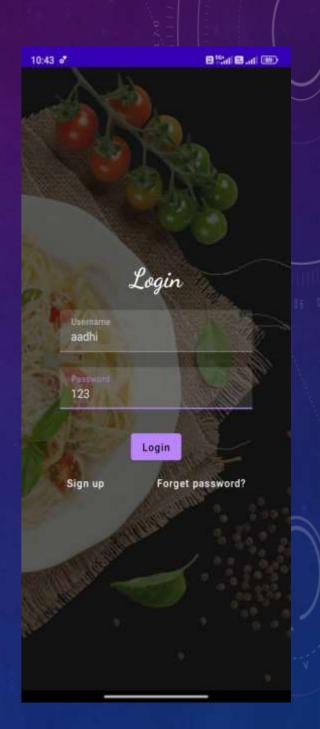
```
import androidx.compose.material.Shapes
import androidx.compose.ui.unit.dp
val Shapes = Shapes(
  small = RoundedCornerShape(4.dp),
  medium = RoundedCornerShape(4.dp),
  large = RoundedCornerShape(0.dp)
Theme
package com.example.snackordering.ui.theme
import androidx.compose.foundation.isSystemInDarkTheme
import\ and roid x. compose. material. Material Theme
import\ and roid x. compose. material. dark Colors
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
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
  /* Other default text styles to override
  button = TextStyle(
    fontFamily = FontFamily.Default,
    fontWeight = FontWeight.W500,
    fontSize = 14.sp
  caption = TextStyle(
    fontFamily = FontFamily.Default,
```

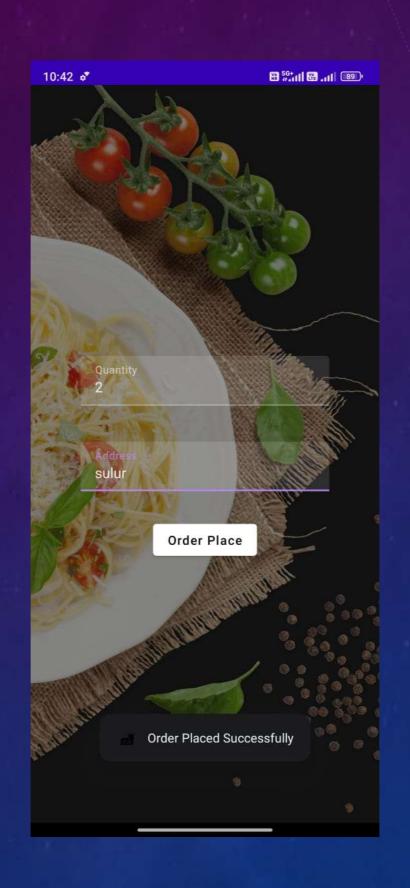
```
fontWeight = FontWeight.Normal,
fontSize = 12.sp
)
*/
```











Thank You