GrabnGo-An ONLINE FOOD ORDERING APP

MainActivity.kt

```
package com.example.foodorderapp
import android.os.Bundle
import androidx.activity.ComponentActivity
import androidx.activity.compose.setContent
import androidx.compose.foundation.layout.fillMaxSize
import androidx.compose.material3.MaterialTheme
import androidx.compose.material3.Surface
import androidx.compose.runtime.*
import androidx.compose.ui.Modifier
import androidx.lifecycle.viewmodel.compose.viewModel
import com.example.foodorderapp.navigation.NavGraph
import com.example.foodorderapp.ui.theme.FoodOrderAppTheme
import com.example.foodorderapp.viewmodel.CartViewModel
class MainActivity : ComponentActivity() {
 override fun onCreate(savedInstanceState: Bundle?) {
   super.onCreate(savedInstanceState)
   setContent {
     FoodOrderApp()
   }
 }
@Composable
fun FoodOrderApp() {
 FoodOrderAppTheme {
   Surface(
     modifier = Modifier.fillMaxSize(),
     color = MaterialTheme.colorScheme.background
   ) {
     val cartViewModel: CartViewModel = viewModel()
     NavGraph(cartViewModel = cartViewModel)
   }
```

```
}
```

Cartitem.kt

package com.example.foodorderapp.model

```
data class CartItem(
  val foodItem: FoodItem,
  val quantity: Int
) {
  val totalPrice: Double
    get() = foodItem.price * quantity
}
```

FoodItem.kt

package com.example.foodorderapp.model

```
data class FoodItem(
val id: String,
val name: String,
val description: String,
val price: Double,
val imageUrl: String,
val restaurantId: String,
val category: String
)
```

Restaurant.kt

package com.example.foodorderapp.model

```
data class Restaurant(
val id: String,
val name: String,
val description: String,
```

```
val imageUrl: String,
  val rating: Float,
  val deliveryTime: String,
  val deliveryFee: String,
  val minOrder: String
)
```

NavGraph.kt

package com.example.foodorderapp.navigation

```
import androidx.compose.runtime.Composable
import androidx.compose.runtime.getValue
import androidx.lifecycle.compose.collectAsStateWithLifecycle
import androidx.navigation.NavType
import androidx.navigation.compose.NavHost
import androidx.navigation.compose.composable
import androidx.navigation.compose.rememberNavController
import androidx.navigation.navArgument
import com.example.foodorderapp.model.FoodItem
import com.example.foodorderapp.model.Restaurant
import com.example.foodorderapp.ui.screens.CartScreen
import com.example.foodorderapp.ui.screens.RestaurantDetailScreen
import com.example.foodorderapp.ui.screens.RestaurantListScreen
import com.example.foodorderapp.viewmodel.CartViewModel
sealed class Screen(val route: String) {
 object RestaurantList : Screen("restaurantList")
 object RestaurantDetail : Screen("restaurantDetail/{restaurantId}") {
   fun createRoute(restaurantId: String) = "restaurantDetail/$restaurantId"
 }
 object Cart : Screen("cart")
}
@Composable
fun NavGraph(cartViewModel: CartViewModel) {
 val navController = rememberNavController()
 val cartItems by cartViewModel.cartItems.collectAsStateWithLifecycle()
 // Sample data
 val restaurants = listOf(
   Restaurant(
```

```
id = "1",
    name = "Burger King",
    description = "Fast food restaurant",
    imageUrl = "https://example.com/burger-king.jpg",
    rating = 4.5f,
    deliveryTime = "20-30 min",
    deliveryFee = "$2.99",
    minOrder = "$10.00"
  ),
  Restaurant(
    id = "2",
    name = "Pizza Hut",
    description = "Pizza restaurant",
    imageUrl = "https://example.com/pizza-hut.jpg",
    rating = 4.2f,
    deliveryTime = "25-35 min",
    deliveryFee = "$1.99",
    minOrder = "$15.00"
  )
)
val foodItems = listOf(
  FoodItem(
    id = "f1",
    name = "Whopper",
    description = "Signature flame-grilled beef burger",
    price = 320.0,
    imageUrl = "https://example.com/whopper.jpg",
    restaurantId = "1",
    category = "Burger"
  ),
  FoodItem(
    id = "f2",
    name = "Chicken Fries",
    description = "Crispy chicken fries",
    price = 300.0,
    imageUrl = "https://example.com/chicken-fries.jpg",
    restaurantId = "1",
    category = "Sides"
  ),
  FoodItem(
    id = "f3",
    name = "Pepperoni Pizza",
    description = "Classic pepperoni pizza",
```

```
price = 450.0,
  imageUrl = "https://example.com/pepperoni-pizza.jpg",
  restaurantId = "2",
  category = "Pizza"
),
FoodItem(
  id = "f4",
  name = "Garlic Bread",
  description = "Freshly baked garlic bread",
  price = 300.0,
  imageUrl = "https://example.com/garlic-bread.jpg",
  restaurantId = "2",
  category = "Sides"
),
FoodItem(
  id = "f5",
  name = "Paneer Tikka Pizza",
  description = "Spicy paneer tikka on a cheesy pizza base",
  price = 480.0,
  imageUrl = "https://example.com/paneer-tikka-pizza.jpg",
  restaurantId = "2",
  category = "Pizza"
),
FoodItem(
  id = "f6",
  name = "Veggie Supreme Burger",
  description = "Loaded with fresh veggies and cheese",
  price = 350.0,
  imageUrl = "https://example.com/veggie-supreme-burger.jpg",
  restaurantId = "1",
  category = "Burger"
),
FoodItem(
  id = "f7",
  name = "Chicken Maharaja Mac",
  description = "Double chicken patty with Indian spices",
  price = 500.0,
  imageUrl = "https://example.com/chicken-maharaja-mac.jpg",
  restaurantId = "1",
  category = "Burger"
),
FoodItem(
  id = "f8",
```

```
name = "Deluxe Veggie Pizza",
    description = "Loaded with exotic veggies and cheese",
    price = 400.0,
    imageUrl = "https://example.com/deluxe-veggie-pizza.jpg",
    restaurantId = "2",
    category = "Pizza"
  ),
  FoodItem(
    id = "f9",
    name = "Peri Peri Fries",
    description = "Crispy fries tossed in peri peri masala",
    price = 320.0,
    imageUrl = "https://example.com/peri-peri-fries.jpg",
    restaurantId = "1",
    category = "Sides"
  ),
  FoodItem(
    id = "f10".
    name = "Cheese Burst Pizza",
    description = "Pizza with extra cheese burst base",
    price = 500.0,
    imageUrl = "https://example.com/cheese-burst-pizza.jpg",
    restaurantId = "2",
    category = "Pizza"
  )
)
NavHost(
  navController = navController,
  startDestination = Screen.RestaurantList.route
) {
  composable(Screen.RestaurantList.route) {
    RestaurantListScreen(
      onRestaurantClick = { restaurant ->
        navController.navigate(Screen.RestaurantDetail.createRoute(restaurant.id))
      },
      onCartClick = { navController.navigate(Screen.Cart.route) },
      cartItems = cartItems
    )
  }
  composable(
    route = Screen.RestaurantDetail.route,
    arguments = listOf(navArgument("restaurantId") { type = NavType.StringType })
```

```
) { backStackEntry ->
      val restaurantId = backStackEntry.arguments?.getString("restaurantId") ?: ""
      val restaurant = restaurants.find { it.id == restaurantId } ?: return@composable
      val items = foodItems.filter { it.restaurantId == restaurantId }
      RestaurantDetailScreen(
        restaurant = restaurant,
        foodItems = items,
        onAddToCart = { cartViewModel.addToCart(it) },
        onBack = { navController.popBackStack() }
     )
   }
    composable(Screen.Cart.route) {
      CartScreen(
        cartItems = cartItems.
        onRemoveItem = { cartViewModel.removeFromCart(it) },
        onUpdateQuantity = { foodItem, quantity ->
          cartViewModel.updateQuantity(foodItem, quantity)
     )
   }
 }
}
```

CartViewModel.kt

package com.example.foodorderapp.viewmodel

import com.example.foodorderapp.model.CartItem

import androidx.lifecycle.ViewModel

```
import com.example.foodorderapp.model.FoodItem
import kotlinx.coroutines.flow.MutableStateFlow
import kotlinx.coroutines.flow.StateFlow
import kotlinx.coroutines.flow.asStateFlow

class CartViewModel: ViewModel() {
    private val _cartItems = MutableStateFlow<List<CartItem>>(emptyList())
    val cartItems: StateFlow<List<CartItem>> = _cartItems.asStateFlow()

fun addToCart(foodItem: FoodItem) {
    val currentItems = _cartItems.value.toMutableList()
    val existingItem = currentItems.find { it.foodItem.id == foodItem.id }
```

```
if (existingItem != null) {
    val index = currentItems.indexOf(existingItem)
    currentItems[index] = existingItem.copy(quantity = existingItem.quantity + 1)
  } else {
    currentItems.add(CartItem(foodItem, 1))
  }
  _cartItems.value = currentItems
}
fun removeFromCart(foodItem: FoodItem) {
  _cartItems.value = _cartItems.value.filter { it.foodItem.id != foodItem.id }
}
fun updateQuantity(foodItem: FoodItem, quantity: Int) {
  if (quantity \leq 0) {
    removeFromCart(foodItem)
    return
  }
  val currentItems = _cartItems.value.toMutableList()
  val existingItem = currentItems.find { it.foodItem.id == foodItem.id }
  if (existingItem != null) {
    val index = currentItems.indexOf(existingItem)
    currentItems[index] = existingItem.copy(quantity = quantity)
    _cartItems.value = currentItems
  }
}
fun getTotal(): Double {
  return _cartItems.value.sumOf { it.totalPrice }
}
```

RestaurantCard.kt

}

package com.example.foodorderapp.ui.components

import androidx.compose.foundation.Image

```
import androidx.compose.foundation.layout.*
import androidx.compose.material3.*
import androidx.compose.runtime.Composable
import androidx.compose.ui.Alignment
import androidx.compose.ui.Modifier
import androidx.compose.ui.layout.ContentScale
import androidx.compose.ui.text.font.FontWeight
import androidx.compose.ui.unit.dp
import coil.compose.rememberAsyncImagePainter
import com.example.foodorderapp.model.Restaurant
```

```
@Composable
fun RestaurantCard(
  restaurant: Restaurant,
  onClick: () -> Unit,
  modifier: Modifier = Modifier
) {
  Card(
    onClick = onClick,
    modifier = modifier
      .fillMaxWidth()
      .height(200.dp)
 ) {
    Column {
      Image(
        painter = rememberAsyncImagePainter(restaurant.imageUrl),
        contentDescription = restaurant.name,
        modifier = Modifier
          .fillMaxWidth()
          .height(120.dp),
        contentScale = ContentScale.Crop
      )
      Column(
        modifier = Modifier
          .padding(16.dp)
          .fillMaxWidth()
      ) {
        Text(
          text = restaurant.name.
          style = MaterialTheme.typography.titleLarge,
          fontWeight = FontWeight.Bold
```

```
Spacer(modifier = Modifier.height(4.dp))
    Row(
      modifier = Modifier.fillMaxWidth(),
      horizontalArrangement = Arrangement.SpaceBetween,
      verticalAlignment = Alignment.CenterVertically
    ){
      Text(
        text = " + ${restaurant.rating}",
        style = Material Theme.typography.body Medium \\
      )
      Text(
        text = restaurant.deliveryTime,
        style = Material Theme.typography.body Medium \\
      )
    }
 }
}
```