**Hoàn thiện ứng dụng FoodApp với Fragment**

**1. Tạo project Android Studio:**

* Mở Android Studio và tạo một dự án Android mới.
* Chọn "Empty Compose Activity" làm template.
* Đặt tên cho dự án là "FoodApp" và chọn ngôn ngữ là Java.
* Click "Finish" để tạo dự án.

**2. Tạo các class cần thiết:**

* **Food.java:** Model cho món ăn.

package com.example.foodapp;

public class Food {

private int id;

private String name;

private String description;

public Food(int id, String name, String description) {

this.id = id;

this.name = name;

this.description = description;

}

public int getId() {

return id;

}

public void setId(int id) {

this.id = id;

}

public String getName() {

return name;

}

public void setName(String name) {

this.name = name;

}

public String getDescription() {

return description;

}

public void setDescription(String description) {

this.description = description;

}

}

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* **FoodAdapter.java:** Adapter cho RecyclerView.

package com.example.foodapp;

import android.view.LayoutInflater;

import android.view.View;

import android.view.ViewGroup;

import android.widget.TextView;

import androidx.annotation.NonNull;

import androidx.recyclerview.widget.RecyclerView;

import java.util.ArrayList;

import java.util.List;

public class FoodAdapter extends RecyclerView.Adapter<FoodAdapter.FoodViewHolder> {

private List<Food> foodList = new ArrayList<>();

private OnItemClickListener listener;

public FoodAdapter(List<Food> foodList) {

this.foodList = foodList;

}

public void setOnItemClickListener(OnItemClickListener listener) {

this.listener = listener;

}

@NonNull

@Override

public FoodViewHolder onCreateViewHolder(@NonNull ViewGroup parent, int viewType) {

View itemView = LayoutInflater.from(parent.getContext())

.inflate(R.layout.food\_item\_layout, parent, false);

return new FoodViewHolder(itemView);

}

@Override

public void onBindViewHolder(@NonNull FoodViewHolder holder, int position) {

Food food = foodList.get(position);

holder.nameTextView.setText(food.getName());

holder.descriptionTextView.setText(food.getDescription());

}

@Override

public int getItemCount() {

return foodList.size();

}

public static class FoodViewHolder extends RecyclerView.ViewHolder {

public TextView nameTextView;

public TextView descriptionTextView;

public FoodViewHolder(@NonNull View itemView) {

super(itemView);

nameTextView = itemView.findViewById(R.id.food\_name);

descriptionTextView = itemView.findViewById(R.id.food\_description);

}

}

public interface OnItemClickListener {

void onItemClick(int position);

}

}

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* **FoodDatabase.java:** Database sử dụng Room.

package com.example.foodapp;

import androidx.room.Database;

import androidx.room.RoomDatabase;

@Database(entities = {Food.class}, version = 1)

public abstract class FoodDatabase extends RoomDatabase {

public abstract FoodDao foodDao();

}

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* **FoodDao.java:** DAO cho database.

package com.example.foodapp;

import androidx.room.Dao;

import androidx.room.Delete;

import androidx.room.Insert;

import androidx.room.Query;

import androidx.room.Update;

import java.util.List;

@Dao

public interface FoodDao {

@Insert

void insertFood(Food food);

@Update

void updateFood(Food food);

@Delete

void deleteFood(Food food);

@Query("SELECT \* FROM Food")

List<Food> getAllFoods();

}

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**3. Tạo các Fragment:**

* **MainFragment.java:** Hiển thị danh sách món ăn.

package com.example.foodapp;

import android.content.Intent;

import android.os.Bundle;

import android.view.LayoutInflater;

import android.view.View;

import android.view.ViewGroup;

import android.widget.Toast;

import androidx.annotation.NonNull;

import androidx.annotation.Nullable;

import androidx.fragment.app.Fragment;

import androidx.recyclerview.widget.LinearLayoutManager;

import androidx.recyclerview.widget.RecyclerView;

import java.util.ArrayList;

import java.util.List;

public class MainFragment extends Fragment {

private RecyclerView recyclerViewFood;

private FoodAdapter foodAdapter;

private List<Food> foodList;

private FoodDao foodDao;

@Override

public void onCreate(@Nullable Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

// Khởi tạo database

FoodDatabase db = ((App) requireActivity().getApplication()).getFoodDatabase();

foodDao = db.foodDao();

}

@Nullable

@Override

public View onCreateView(@NonNull LayoutInflater inflater, @Nullable ViewGroup container, @Nullable Bundle savedInstanceState) {

View view = inflater.inflate(R.layout.fragment\_main, container, false);

recyclerViewFood = view.findViewById(R.id.recyclerViewFood);

recyclerViewFood.setLayoutManager(new LinearLayoutManager(getContext()));

foodList = new ArrayList<>();

foodAdapter = new FoodAdapter(foodList);

recyclerViewFood.setAdapter(foodAdapter);

// Thiết lập sự kiện click cho item trong RecyclerView

foodAdapter.setOnItemClickListener(new FoodAdapter.OnItemClickListener() {

@Override

public void onItemClick(int position) {

Food food = foodList.get(position);

// Mở DetailFragment để hiển thị thông tin chi tiết

Bundle bundle = new Bundle();

bundle.putInt("food\_id", food.getId());

DetailFragment detailFragment = new DetailFragment();

detailFragment.setArguments(bundle);

getParentFragmentManager().beginTransaction()

.replace(R.id.fragment\_container, detailFragment)

.addToBackStack(null)

.commit();

}

});

// Load danh sách món ăn từ database

loadFoods();

return view;

}

private void loadFoods() {

new Thread(() -> {

foodList = foodDao.getAllFoods();

requireActivity().runOnUiThread(() -> {

foodAdapter.foodList.clear();

foodAdapter.foodList.addAll(foodList);

foodAdapter.notifyDataSetChanged();

});

}).start();

}

}

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* **AddFoodFragment.java:** Thêm món ăn mới.

package com.example.foodapp;

import android.os.Bundle;

import android.view.LayoutInflater;

import android.view.View;

import android.view.ViewGroup;

import android.widget.Button;

import android.widget.EditText;

import android.widget.Toast;

import androidx.annotation.NonNull;

import androidx.annotation.Nullable;

import androidx.fragment.app.Fragment;

public class AddFoodFragment extends Fragment {

private EditText nameEditText;

private EditText descriptionEditText;

private Button saveButton;

private FoodDao foodDao;

@Override

public void onCreate(@Nullable Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

// Khởi tạo database

FoodDatabase db = ((App) requireActivity().getApplication()).getFoodDatabase();

foodDao = db.foodDao();

}

@Nullable

@Override

public View onCreateView(@NonNull LayoutInflater inflater, @Nullable ViewGroup container, @Nullable Bundle savedInstanceState) {

View view = inflater.inflate(R.layout.fragment\_add\_food, container, false);

nameEditText = view.findViewById(R.id.nameEditText);

descriptionEditText = view.findViewById(R.id.descriptionEditText);

saveButton = view.findViewById(R.id.saveButton);

saveButton.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

String name = nameEditText.getText().toString();

String description = descriptionEditText.getText().toString();

if (!name.isEmpty() && !description.isEmpty()) {

// Lưu món ăn mới vào database

Food food = new Food(0, name, description);

new Thread(() -> {

foodDao.insertFood(food);

requireActivity().runOnUiThread(() -> {

Toast.makeText(getContext(), "Thêm món ăn thành công", Toast.LENGTH\_SHORT).show();

getParentFragmentManager().popBackStack();

});

}).start();

} else {

Toast.makeText(getContext(), "Vui lòng nhập đầy đủ thông tin", Toast.LENGTH\_SHORT).show();

}

}

});

return view;

}

}

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* **DetailFragment.java:** Hiển thị thông tin chi tiết của món ăn.

package com.example.foodapp;

import android.os.Bundle;

import android.view.LayoutInflater;

import android.view.View;

import android.view.ViewGroup;

import android.widget.Button;

import android.widget.EditText;

import android.widget.TextView;

import android.widget.Toast;

import androidx.annotation.NonNull;

import androidx.annotation.Nullable;

import androidx.fragment.app.Fragment;

public class DetailFragment extends Fragment {

private TextView nameTextView;

private TextView descriptionTextView;

private Button editButton;

private Button deleteButton;

private FoodDao foodDao;

private int foodId;

@Override

public void onCreate(@Nullable Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

// Khởi tạo database

FoodDatabase db = ((App) requireActivity().getApplication()).getFoodDatabase();

foodDao = db.foodDao();

// Lấy ID món ăn từ arguments

if (getArguments() != null) {

foodId = getArguments().getInt("food\_id");

}

}

@Nullable

@Override

public View onCreateView(@NonNull LayoutInflater inflater, @Nullable ViewGroup container, @Nullable Bundle savedInstanceState) {

View view = inflater.inflate(R.layout.fragment\_detail, container, false);

nameTextView = view.findViewById(R.id.nameTextView);

descriptionTextView = view.findViewById(R.id.descriptionTextView);

editButton = view.findViewById(R.id.editButton);

deleteButton = view.findViewById(R.id.deleteButton);

// Load thông tin món ăn từ database

loadFood();

editButton.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

// Mở EditFoodFragment để chỉnh sửa thông tin món ăn

Bundle bundle = new Bundle();

bundle.putInt("food\_id", foodId);

EditFoodFragment editFoodFragment = new EditFoodFragment();

editFoodFragment.setArguments(bundle);

getParentFragmentManager().beginTransaction()

.replace(R.id.fragment\_container, editFoodFragment)

.addToBackStack(null)

.commit();

}

});

deleteButton.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

// Xác nhận xóa món ăn

new DeleteFoodDialogFragment(foodId).show(getParentFragmentManager(), "delete\_dialog");

}

});

return view;

}

private void loadFood() {

new Thread(() -> {

Food food = foodDao.getFoodById(foodId);

requireActivity().runOnUiThread(() -> {

nameTextView.setText(food.getName());

descriptionTextView.setText(food.getDescription());

});

}).start();

}

}

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* **EditFoodFragment.java:** Chỉnh sửa thông tin món ăn.

package com.example.foodapp;

import android.os.Bundle;

import android.view.LayoutInflater;

import android.view.View;

import android.view.ViewGroup;

import android.widget.Button;

import android.widget.EditText;

import android.widget.Toast;

import androidx.annotation.NonNull;

import androidx.annotation.Nullable;

import androidx.fragment.app.Fragment;

public class EditFoodFragment extends Fragment {

private EditText nameEditText;

private EditText descriptionEditText;

private Button saveButton;

private FoodDao foodDao;

private int foodId;

@Override

public void onCreate(@Nullable Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

// Khởi tạo database

FoodDatabase db = ((App) requireActivity().getApplication()).getFoodDatabase();

foodDao = db.foodDao();

// Lấy ID món ăn từ arguments

if (getArguments() != null) {

foodId = getArguments().getInt("food\_id");

}

}

@Nullable

@Override

public View onCreateView(@NonNull LayoutInflater inflater, @Nullable ViewGroup container, @Nullable Bundle savedInstanceState) {

View view = inflater.inflate(R.layout.fragment\_edit\_food, container, false);

nameEditText = view.findViewById(R.id.nameEditText);

descriptionEditText = view.findViewById(R.id.descriptionEditText);

saveButton = view.findViewById(R.id.saveButton);

// Load thông tin món ăn từ database

loadFood();

saveButton.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

String name = nameEditText.getText().toString();

String description = descriptionEditText.getText().toString();

if (!name.isEmpty() && !description.isEmpty()) {

// Cập nhật thông tin món ăn trong database

Food food = new Food(foodId, name, description);

new Thread(() -> {

foodDao.updateFood(food);

requireActivity().runOnUiThread(() -> {

Toast.makeText(getContext(), "Cập nhật món ăn thành công", Toast.LENGTH\_SHORT).show();

getParentFragmentManager().popBackStack();

});

}).start();

} else {

Toast.makeText(getContext(), "Vui lòng nhập đầy đủ thông tin", Toast.LENGTH\_SHORT).show();

}

}

});

return view;

}

private void loadFood() {

new Thread(() -> {

Food food = foodDao.getFoodById(foodId);

requireActivity().runOnUiThread(() -> {

nameEditText.setText(food.getName());

descriptionEditText.setText(food.getDescription());

});

}).start();

}

}

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* **DeleteFoodDialogFragment.java:** Dialog xác nhận xóa món ăn.

package com.example.foodapp;

import android.app.AlertDialog;

import android.app.Dialog;

import android.content.DialogInterface;

import android.os.Bundle;

import androidx.annotation.NonNull;

import androidx.annotation.Nullable;

import androidx.fragment.app.DialogFragment;

public class DeleteFoodDialogFragment extends DialogFragment {

private int foodId;

private FoodDao foodDao;

public DeleteFoodDialogFragment(int foodId) {

this.foodId = foodId;

}

@NonNull

@Override

public Dialog onCreateDialog(@Nullable Bundle savedInstanceState) {

// Khởi tạo database

FoodDatabase db = ((App) requireActivity().getApplication()).getFoodDatabase();

foodDao = db.foodDao();

// Tạo AlertDialog

AlertDialog.Builder builder = new AlertDialog.Builder(getActivity());

builder.setTitle("Xác nhận xóa")

.setMessage("Bạn có chắc chắn muốn xóa món ăn này?")

.setPositiveButton("Có", new DialogInterface.OnClickListener() {

public void onClick(DialogInterface dialog, int id) {

// Xóa món ăn khỏi database

new Thread(() -> {

foodDao.deleteFood(new Food(foodId, "", ""));

requireActivity().runOnUiThread(() -> {

Toast.makeText(getContext(), "Xóa món ăn thành công", Toast.LENGTH\_SHORT).show();

getParentFragmentManager().popBackStack();

});

}).start();

}

})

.setNegativeButton("Không", new DialogInterface.OnClickListener() {

public void onClick(DialogInterface dialog, int id) {

// Không làm gì

}

});

return builder.create();

}

}

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**4. Tạo các layout XML:**

* **activity\_main.xml:** Layout cho MainActivity.

<?xml version="1.0" encoding="utf-8"?>

<androidx.constraintlayout.widget.ConstraintLayout

xmlns:android="http://schemas.android.com/apk/res/android"

xmlns:app="http://schemas.android.com/apk/res-auto"

android:layout\_width="match\_parent"

android:layout\_height="match\_parent">

<androidx.viewpager.widget.ViewPager

android:id="@+id/viewPager"

android:layout\_width="0dp"

android:layout\_height="0dp"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent" />

<com.google.android.material.tabs.TabLayout

android:id="@+id/tabLayout"

android:layout\_width="0dp"

android:layout\_height="wrap\_content"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent" />

</androidx.constraintlayout.widget.ConstraintLayout>

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* **fragment\_main.xml:** Layout cho MainFragment.

<?xml version="1.0" encoding="utf-8"?>

<androidx.constraintlayout.widget.ConstraintLayout

xmlns:android="http://schemas.android.com/apk/res/android"

xmlns:app="http://schemas.android.com/apk/res-auto"

android:layout\_width="match\_parent"

android:layout\_height="match\_parent">

<androidx.recyclerview.widget.RecyclerView

android:id="@+id/recyclerViewFood"

android:layout\_width="0dp"

android:layout\_height="0dp"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent" />

</androidx.constraintlayout.widget.ConstraintLayout>

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* **food\_item\_layout.xml:** Layout cho item trong RecyclerView.

<?xml version="1.0" encoding="utf-8"?>

<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:orientation="vertical"

android:padding="16dp">

<TextView

android:id="@+id/food\_name"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:textSize="18sp"

android:textStyle="bold" />

<TextView

android:id="@+id/food\_description"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:textSize="16sp" />

</LinearLayout>

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* **fragment\_add\_food.xml:** Layout cho AddFoodFragment.

<?xml version="1.0" encoding="utf-8"?>

<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:orientation="vertical"

android:padding="16dp">

<EditText

android:id="@+id/nameEditText"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:hint="@string/name\_hint"

android:inputType="text" />

<EditText

android:id="@+id/descriptionEditText"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:hint="@string/description\_hint"

android:inputType="textMultiLine"

android:gravity="top" />

<Button

android:id="@+id/saveButton"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:text="@string/save" />

</LinearLayout>

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* **fragment\_detail.xml:** Layout cho DetailFragment.

<?xml version="1.0" encoding="utf-8"?>

<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:orientation="vertical"

android:padding="16dp">

<TextView

android:id="@+id/nameTextView"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:textSize="20sp"

android:textStyle="bold" />

<TextView

android:id="@+id/descriptionTextView"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:textSize="18sp" />

<Button

android:id="@+id/editButton"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:text="@string/edit" />

<Button

android:id="@+id/deleteButton"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:text="@string/delete" />

</LinearLayout>

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* **fragment\_edit\_food.xml:** Layout cho EditFoodFragment.

<?xml version="1.0" encoding="utf-8"?>

<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:orientation="vertical"

android:padding="16dp">

<EditText

android:id="@+id/nameEditText"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:hint="@string/name\_hint"

android:inputType="text" />

<EditText

android:id="@+id/descriptionEditText"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:hint="@string/description\_hint"

android:inputType="textMultiLine"

android:gravity="top" />

<Button

android:id="@+id/saveButton"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:text="@string/save" />

</LinearLayout>

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**5. Cài đặt MainActivity.java:**

package com.example.foodapp;

import androidx.appcompat.app.AppCompatActivity;

import androidx.viewpager.widget.ViewPager;

import android.os.Bundle;

import com.google.android.material.tabs.TabLayout;

import java.util.ArrayList;

import java.util.List;

public class MainActivity extends AppCompatActivity {

private TabLayout tabLayout;

private ViewPager viewPager;

private List<Fragment> fragments;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

tabLayout = findViewById(R.id.tabLayout);

viewPager = findViewById(R.id.viewPager);

fragments = new ArrayList<>();

fragments.add(new MainFragment());

fragments.add(new AddFoodFragment());

// Khởi tạo ViewPager và TabLayout

ViewPagerAdapter adapter = new ViewPagerAdapter(getSupportFragmentManager(), fragments);

viewPager.setAdapter(adapter);

tabLayout.setupWithViewPager(viewPager);

}

}

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**6. Cài đặt ViewPagerAdapter.java:**

package com.example.foodapp;

import androidx.annotation.NonNull;

import androidx.fragment.app.Fragment;

import androidx.fragment.app.FragmentManager;

import androidx.fragment.app.FragmentPagerAdapter;

import java.util.List;

public class ViewPagerAdapter extends FragmentPagerAdapter {

private List<Fragment> fragments;

public ViewPagerAdapter(@NonNull FragmentManager fm, List<Fragment> fragments) {

super(fm, BEHAVIOR\_RESUME\_ONLY\_CURRENT\_FRAGMENT);

this.fragments = fragments;

}

@NonNull

@Override

public Fragment getItem(int position) {

return fragments.get(position);

}

@Override

public int getCount() {

return fragments.size();

}

@Nullable

@Override

public CharSequence getPageTitle(int position) {

switch (position) {

case 0:

return "Danh sách món ăn";

case 1:

return "Thêm món ăn";

default:

return "";

}

}

}

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**7. Cài đặt App.java:**

package com.example.foodapp;

import android.app.Application;

import androidx.room.Room;

public class App extends Application {

private FoodDatabase foodDatabase;

@Override

public void onCreate() {

super.onCreate();

foodDatabase = Room.databaseBuilder(this, FoodDatabase.class, "food\_db")

.allowMainThreadQueries() // Cho phép truy vấn database trên main thread (chỉ sử dụng cho demo)

.build();

}

public FoodDatabase getFoodDatabase() {

return foodDatabase;

}

}

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**8. Cài đặt menu XML (main\_menu.xml):**

<?xml version="1.0" encoding="utf-8"?>

<menu xmlns:android="http://schemas.android.com/apk/res/android">

<item

android:id="@+id/action\_exit"

android:title="@string/action\_exit"

android:showAsAction="never" />

</menu>

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**9. Cài đặt strings.xml:**

<resources>

<string name="app\_name">FoodApp</string>

<string name="action\_exit">Thoát</string>

<string name="name\_hint">Tên món ăn</string>

<string name="description\_hint">Mô tả</string>

<string name="save">Lưu</string>

<string name="edit">Sửa</string>

<string name="delete">Xóa</string>

</resources>

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**10. Chạy ứng dụng:**

* Chạy ứng dụng trên thiết bị ảo hoặc thiết bị thực.
* Kiểm tra kết quả, ứng dụng sẽ hiển thị danh sách món ăn, cho phép người dùng thêm, sửa, xóa món ăn và hiển thị thông tin chi tiết của mỗi món ăn.