**MainActivity.java**  
  
package m.rocketprogram;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;

import android.os.Bundle;

import android.view.View;

import android.widget.TextView;

public class MainActivity extends AppCompatActivity {

private TextView txtRocketCounter;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

txtRocketCounter = findViewById(R.id.txtRocketCounter);

Storage s = Storage.getInstance();

s.addRocket(new Starship());

s.addRocket(new Starship());

s.addRocket(new Sls());

s.addRocket(new Starship());

txtRocketCounter.setText("Raketteja on: " + Rocket.rocketCounter);

}

public void switchToAddRocket(View view) {

Intent intent = new Intent(this, AddRocketActivity.class);

startActivity(intent);

}

public void switchToRocketList(View view) {

Intent intent = new Intent(this, RocketListActivity.class);

startActivity(intent);

}

public void updateRocketCounterNumber(View view) {

txtRocketCounter.setText("Raketteja on: " + Rocket.rocketCounter);

}

}

**AddRocketActivity.java**

package m.rocketprogram;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;

import android.view.View;

import android.widget.RadioGroup;

import android.widget.Toast;

public class AddRocketActivity extends AppCompatActivity {

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_add\_rocket);

}

public void addRocket(View view) {

RadioGroup rgRocketType = findViewById(R.id.rgRocketType);

switch (rgRocketType.getCheckedRadioButtonId()) {

case R.id.rbStarship:

Storage.getInstance().addRocket(new Starship());

break;

case R.id.rbSls:

Storage.getInstance().addRocket(new Sls());

break;

case R.id.rbAriane6:

Storage.getInstance().addRocket(new Starship());

break;

}

}

}

**RocketListActivity.java**

package m.rocketprogram;

import androidx.appcompat.app.AppCompatActivity;

import androidx.recyclerview.widget.LinearLayoutManager;

import androidx.recyclerview.widget.RecyclerView;

import android.os.Bundle;

public class RocketListActivity extends AppCompatActivity {

private Storage storage;

private RecyclerView recyclerView;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_rocket\_list);

storage = Storage.getInstance();

recyclerView = findViewById(R.id.rvRocketList);

recyclerView.setLayoutManager(new LinearLayoutManager(this));

recyclerView.setAdapter(new RocketListAdapter(getApplicationContext(), storage.getRockets()));

}

}

**Storarage.java**

package m.rocketprogram;

import java.util.ArrayList;

public class Storage {

private ArrayList<Rocket> rockets = new ArrayList<>();

private static Storage storage = null;

private Storage() {

}

public static Storage getInstance() {

if(storage == null) {

storage = new Storage();

}

return storage;

}

public ArrayList<Rocket> getRockets() {

return rockets;

}

public void addRocket(Rocket rocket) {

rockets.add(rocket);

}

public Rocket getRocketById(int id) {

return rockets.remove(id);

}

public void listRockets() {

int i = 0;

for (Rocket rocket : rockets) {

System.out.println(i++ + ": " + rocket.getName());

}

}

public void listRocketsInformation() {

for (Rocket rocket : rockets) {

rocket.printSpecs();

}

}

}

**Rocket.List.Adapter.java**

package m.rocketprogram;

import android.content.Context;

import android.view.LayoutInflater;

import android.view.ViewGroup;

import androidx.annotation.NonNull;

import androidx.recyclerview.widget.RecyclerView;

import java.lang.reflect.Array;

import java.util.ArrayList;

public class RocketListAdapter extends RecyclerView.Adapter<RocketViewHolder> {

private Context context;

private ArrayList<Rocket> rockets = new ArrayList<>();

public RocketListAdapter(Context context, ArrayList<Rocket> rockets) {

this.context = context;

this.rockets = rockets;

}

@NonNull

@Override

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

return new RocketViewHolder(LayoutInflater.from(context).inflate(R.layout.rocket\_view, parent, false));

}

@Override

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

holder.rocketName.setText(rockets.get(position).getName() + " (" + rockets.get(position).getId() +")");

holder.rocketMass.setText(String.valueOf(rockets.get(position).getMass()) + " kg");

holder.rocketHeight.setText(String.valueOf(rockets.get(position).getHeight()) + " m");

ArrayList<RocketEngine> re = rockets.get(position).getEngines();

holder.rocketEngines.setText(String.valueOf(re.size()) + "kpl " + re.get(0).getName() + " (" + re.get(0).getPower() + "kN)");

holder.rocketImage.setImageResource(rockets.get(position).getImage());

}

@Override

public int getItemCount() {

return rockets.size();

}

}

**RocketViewHolder.java**

package m.rocketprogram;

import android.view.View;

import android.widget.ImageView;

import android.widget.TextView;

import androidx.annotation.NonNull;

import androidx.recyclerview.widget.RecyclerView;

public class RocketViewHolder extends RecyclerView.ViewHolder {

ImageView rocketImage;

TextView rocketName, rocketMass, rocketHeight, rocketEngines;

public RocketViewHolder(@NonNull View itemView) {

super(itemView);

rocketImage = itemView.findViewById(R.id.ivRocketImage);

rocketName = itemView.findViewById(R.id.txtRocketName);

rocketMass = itemView.findViewById(R.id.txtRocketMass);

rocketHeight = itemView.findViewById(R.id.txtRocketHeight);

rocketEngines = itemView.findViewById(R.id.txtRocketEngines);

}

}

**Muut**:

Rocket.java

RocketEngine.java

Sls.java

Starship.java

StartStop.java