

ПРИЛОЖЕНИЕ Б. ТЕКСТ ПРОГРАММЫ

АННОТАЦИЯ

В данном программном документе приведен текст программы для поддержания работы мобильного приложения «Drivee».

В данном программном документе, в разделе «Тест программы», указана информация о информационной системе, области применения программы, модулей программы и код каждого программного модуля.

1. МОДУЛИ ИНФОРМАЦИОННОЙ СИСТЕМЫ

В Таблице 1 представлено описание всех классов и модулей программы, количество строк верстки или кода и размер файла.

№	Название	Описание	Количество строк	Размер файла в Кб
1	2	3	4	5
1	AndroidManifest.xml	конфигурация приложения: разрешения, иконки, список активности	54	2 Кб
2	AdminActivity.java	панель администратора, просмотр необработанных объявлений	93	5 Кб
3	AdminBortjournalActivity.java	панель администратора для управления бортжурналами	86	4 Кб
4	AdminBortjournalAdapter.java	адаптер для отображения бортжурналов в админке	88	5 Кб
5	AdminCarAdapter.java	адаптер для списка машин в админке.	110	6 Кб
6	AllActivity.java	главный экран со всеми объявлениями + фильтры и навигация.	391	9 Кб
7	BortjournalActivity.java	экран бортжурнала пользователя	62	2 Кб
8	BortjournalAdapter.java	адаптер для списка записей в бортжурнале	123	3 Кб
9	BortjournalDetailActivity.java	экран подробностей по записи в бортжурнале	30	2 Кб
10	BortjournalPost.java	модель (РОЖО) для записи в бортжурнал	80	4 Кб
11	Car.java	модель машины	47	2 Кб
12	CarAdapter.java	адаптер для отображения карточек машин	198	3 Кб
13	CarAdapterUser.java	адаптер для отображения машин текущего пользователя	86	3 Кб
14	CarForProfile.java	отдельная модель машины для профиля	33	1 Кб
15	CenterActivity.java	экран карточки машины	182	4 Кб
16	CreateListingActivity.java	создание нового объявления	305	8 Кб
17	CreatePostActivity.java	создание записи в бортжурнал	134	3 Кб
18	FavoritesActivity.java	избранные объявления пользователя	106	2 Кб

№	Название	Описание	Количество строк	Размер файла в Кб
1	2	3	4	5
19	FilterActivity.java	расширенные фильтры поиска	106	2 Кб
20	ImagePagerAdapter.java	адаптер для ViewPager с фото машины	68	2 Кб
21	MainActivity.java	экран авторизации	94	2 Кб
22	ManageModelsActivity.java	админка: управление марками и моделями	97	2 Кб
23	RegActivity.java	экран регистрации	114	3 Кб
24	ResetPasswordActivity.java	сброс пароля	47	1 Кб
25	SelectBrandActivity.java	выбор марки авто.	80	2 Кб
26	SelectModelActivity.java	выбор модели авто.	95	2 Кб
27	SplashActivity.java	splash-экран при запуске	22	1 Кб
28	User.java	модель пользователя	30	1 Кб
29	UserCar.java	модель машины, привязанной к пользователю	48	1 Кб
30	UserProfileActivity.java	профиль пользователя	197	3 Кб
31	circle.xml	закруглённый стиль	5	1 Кб
32	edittext_background.xml	фон для полей ввода	3	1 Кб
33	ic_heart_filled.xml	иконка «лайка» (избранное)	9	1 Кб
34	ic_heart_outline.xml	иконка «лайка» — пустая	9	1 Кб
35	ic_launcher_background.xml	стандартные ресурсы иконки	75	2 Кб
36	ic_launcher_foreground.xml	стандартные ресурсы иконки	30	1 Кб
37	spinner_background.xml	фон для выпадающего списка (Spinner).	6	1 Кб
38	splash_background.xml	фон для splash-экрана.	4	1 Кб
39	activity_admin.xml	UI экрана AdminActivity	45	1 Кб
40	activity_admin_bortjournal.xml	UI для AdminBortjournalActivity	26	1 Кб
41	activity_all.xml	UI для экрана со всеми объявлениями	107	3 Кб
42	activity_center.xml	UI карточки машины	160	3 Кб
43	activity_create_listing.xml	UI создания нового объявления	292	4 Кб
44	activity_favorites.xml	UI избранного	49	1 Кб
45	activity_filter.xml	UI экрана фильтрации	216	4 Кб
46	activity_main.xml	UI авторизации	69	1 Кб
47	activity_manage_models.xml	UI управления марками/моделями.	68	1 Кб
48	activity_reg.xml	UI регистрации	91	2 Кб

№	Название	Описание	Количество строк	Размер файла в Кб
1	2	3	4	5
49	activity_reset_password.xml	UI сброса пароля	41	1 Кб
50	activity_select_brand.xml	UI выбора марки	33	1 Кб
51	activity_select_model.xml	UI выбора модели	33	1 Кб
52	activity_splash.xml	UI заставки	14	1 Кб
53	activity_user_profile.xml	UI профиля пользователя	113	2 Кб
54	bortjournal_activity.xml	UI экрана с записями боржурнала	28	1 Кб
55	bortjournal_detail_activity.xml	UI экрана с деталями записи	38	1 Кб
56	create_post_activity.xml	UI создания записи в боржурнал	60	2 Кб
57	item_admin_bortjournal.xml	элемент списка записей в админке	61	2 Кб
58	item_bortjournal.xml	элемент записи в боржурнале	70	2 Кб
59	item_car.xml	карточка машины.	86	2 Кб
60	item_car_admin.xml	карточка машины для админки	63	2 Кб
61	item_car_image.xml	элемент изображения машины	5	1 Кб
62	item_car_user.xml	карточка машины в профиле пользователя	86	2 Кб
63	item_image.xml	отдельный элемент изображения	6	1 Кб
64	bottom_nav_menu.xml	нижняя навигация	11	1 Кб
65	bottom_navigation_menu.xml	нижняя навигация	19	1 Кб
66	colors.xml	определение цветов в приложении	6	1 Кб
67	strings.xml	строковые ресурсы	3	1 Кб
68	styles.xml	стили	8	1 Кб
69	values.xml	общее хранилище ресурсов	9	1 Кб
70	build.gradle	конфигурация сборки приложения	50	1 Кб
71	libs.versions.toml	зависимости, версии библиотек	29	1 Кб

2. ИСХОДНЫЙ КОД ПРОГРАММЫ

1) AndroidManifest.xml

```

<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools">

    <uses-feature
        android:name="android.hardware.telephony"

```

```

        android:required="false" />

<uses-permission android:name="android.permission.CALL_PHONE" />
<uses-permission android:name="android.permission.ACCESS_FINE_LOCATION" />
<uses-permission android:name="android.permission.ACCESS_COARSE_LOCATION" />

<application
    android:allowBackup="true"
    android:dataExtractionRules="@xml/data_extraction_rules"
    android:fullBackupContent="@xml/backup_rules"
    android:icon="@mipmap/ic_launcher"
    android:roundIcon="@mipmap/ic_launcher_round"
    android:label="@string/app_name"
    android:supportRtl="true"
    android:theme="@style/Theme.Drivee"
    tools:targetApi="31">

    <activity
        android:name=".MainActivity"
        android:exported="true">
        <intent-filter>
            <action android:name="android.intent.action.MAIN"/>
            <category android:name="android.intent.category.LAUNCHER"/>
        </intent-filter>
    </activity>

    <activity android:name=".RegActivity" />
    <activity android:name=".SplashActivity" />
    <activity android:name=".FavoritesActivity" />
    <activity android:name=".SelectModelActivity" />
    <activity android:name=".ManageModelsActivity" />
    <activity android:name=".AdminBortjournalActivity" />
    <activity android:name=".FilterActivity" />
    <activity android:name=".CreateListingActivity" />
    <activity android:name=".ResetPasswordActivity" />
    <activity android:name=".CenterActivity" />
    <activity android:name=".SelectBrandActivity" />
    <activity android:name=".AllActivity" />
    <activity android:name=".BortjournalDetailActivity" />
    <activity android:name=".BortjournalActivity" />
    <activity android:name=".CreatePostActivity" />
    <activity android:name=".UserProfileActivity" />
    <activity android:name=".AdminActivity" />

</application>

</manifest>

```

2) AdminActivity.java

```

package com.example.drivee;

import android.content.Intent;
import android.os.Bundle;
import android.util.Log;

import androidx.appcompat.app.AppCompatActivity;
import androidx.recyclerview.widget.LinearLayoutManager;
import androidx.recyclerview.widget.RecyclerView;

import com.google.android.material.bottomnavigation.BottomNavigationView;
import com.google.firebase.firestore.FirebaseFirestore;
import com.google.firebase.firestore.QueryDocumentSnapshot;

import java.util.ArrayList;
import java.util.List;

public class AdminActivity extends AppCompatActivity {

    private RecyclerView recyclerView;
    private AdminCarAdapter adminCarAdapter;

```

```

private List<Car> carList;
private BottomNavigationView bottomNavigationView;

private FirebaseFirestore db;

@Override
protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_admin);

    recyclerView = findViewById(R.id.recyclerView);
    recyclerView.setLayoutManager(new LinearLayoutManager(this));

    carList = new ArrayList<>();
    adminCarAdapter = new AdminCarAdapter(this, carList);
    recyclerView.setAdapter(adminCarAdapter);

    db = FirebaseFirestore.getInstance();

    bottomNavigationView = findViewById(R.id.bottomNavigationView);

    bottomNavigationView.setOnItemSelectedListener(item -> {
        if (item.getItemId() == R.id.nav_manage_models) {
            Intent intent = new Intent(AdminActivity.this, ManageModelsActivity.class);
            startActivity(intent);
            return true;
        }
        else if (item.getItemId() == R.id.nav_manage_bort) {
            Intent intent = new Intent(AdminActivity.this, AdminBortjournalActivity.class);
            startActivity(intent);
            return true;
        }
        return false;
    });

    loadPendingCars();
}

private void loadPendingCars() {
    db.collection("cars")
        .whereEqualTo("status", "pending")
        .get()
        .addOnCompleteListener(task -> {
            if (task.isSuccessful()) {
                carList.clear();
                for (QueryDocumentSnapshot document : task.getResult()) {
                    String photoone = document.getString("photoone");
                    if (photoone == null) photoone = "";
                    long mileage = document.getLong("mileage") != null ? document.getLong("mileage") : 0;

                    Car car = new Car(
                        document.getId(),
                        document.getString("brand"),
                        document.getString("model"),
                        photoone,
                        mileage,
                        document.getLong("price")
                    );

                    carList.add(car);
                }
                adminCarAdapter.notifyDataSetChanged();
            } else {
                Log.e("AdminActivity", "Ошибка загрузки машин", task.getException());
            }
        });
}
}

```

3) AdminBortjournalActivity.java

```
package com.example.drivee;

import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.Toast;

import androidx.appcompat.app.AppCompatActivity;
import androidx.recyclerview.widget.LinearLayoutManager;
import androidx.recyclerview.widget.RecyclerView;

import com.google.firebase.firestore.FirebaseFirestore;
import com.google.firebase.firestore.QueryDocumentSnapshot;

import java.util.ArrayList;
import java.util.List;

public class AdminBortjournalActivity extends AppCompatActivity {

    private RecyclerView recyclerView;
    private FirebaseFirestore db;
    private List<BortjournalPost> postList = new ArrayList<>();
    private AdminBortjournalAdapter adapter;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_admin_bortjournal);

        recyclerView = findViewById(R.id.adminRecyclerView);
        recyclerView.setLayoutManager(new LinearLayoutManager(this));

        db = FirebaseFirestore.getInstance();

        adapter = new AdminBortjournalAdapter(postList, this::openDetail, this::approvePost, this::deletePost);
        recyclerView.setAdapter(adapter);

        loadPendingPosts();
    }

    private void loadPendingPosts() {
        db.collection("bortjornal")
            .whereEqualTo("status", "pending")
            .get()
            .addOnSuccessListener(querySnapshot -> {
                postList.clear();
                for (QueryDocumentSnapshot doc : querySnapshot) {
                    BortjournalPost post = doc.toObject(BortjournalPost.class);
                    post.setId(doc.getId());
                    postList.add(post);
                }
                adapter.notifyDataSetChanged();
            })
            .addOnFailureListener(e -> Toast.makeText(this, "Ошибка загрузки", Toast.LENGTH_SHORT).show());
    }

    private void openDetail(BortjournalPost post) {
        Intent intent = new Intent(this, BortjournalDetailActivity.class);
        intent.putExtra("brand", post.getBrand());
        intent.putExtra("model", post.getModel());
        intent.putExtra("title", post.getTitle());
        intent.putExtra("content", post.getContent());
        startActivity(intent);
    }

    private void approvePost(BortjournalPost post) {
        db.collection("bortjornal").document(post.getId())
            .update("status", "approved")
            .addOnSuccessListener(unused -> {
                Toast.makeText(this, "Подтверждено", Toast.LENGTH_SHORT).show();
            });
    }
}
```

```

        postList.remove(post);
        adapter.notifyDataSetChanged();
    });
}

private void deletePost(BortjournalPost post) {
    db.collection("bortjournal").document(post.getId())
        .delete()
        .addOnSuccessListener(unused -> {
            Toast.makeText(this, "Удалено", Toast.LENGTH_SHORT).show();
            postList.remove(post);
            adapter.notifyDataSetChanged();
        });
}
}

```

4) AdminBortjournalAdapter.java

```

package com.example.drivee;

import android.view.LayoutInflater;
import android.view.View;
import android.view.ViewGroup;
import android.widget.Button;
import android.widget.TextView;

import androidx.annotation.NonNull;
import androidx.recyclerview.widget.RecyclerView;

import java.util.List;

public class AdminBortjournalAdapter extends RecyclerView.Adapter<AdminBortjournalAdapter.ViewHolder> {

    public interface OnPostOpenListener {
        void onOpen(BortjournalPost post);
    }

    public interface OnPostApproveListener {
        void onApprove(BortjournalPost post);
    }

    public interface OnPostDeleteListener {
        void onDelete(BortjournalPost post);
    }

    private List<BortjournalPost> posts;
    private OnPostOpenListener openListener;
    private OnPostApproveListener approveListener;
    private OnPostDeleteListener deleteListener;

    public AdminBortjournalAdapter(List<BortjournalPost> posts,
                                   OnPostOpenListener openListener,
                                   OnPostApproveListener approveListener,
                                   OnPostDeleteListener deleteListener) {
        this.posts = posts;
        this.openListener = openListener;
        this.approveListener = approveListener;
        this.deleteListener = deleteListener;
    }

    @NonNull
    @Override
    public AdminBortjournalAdapter.ViewHolder onCreateViewHolder(@NonNull ViewGroup parent, int viewType) {
        View view = LayoutInflater.from(parent.getContext()).inflate(R.layout.item_admin_bortjournal, parent, false);
        return new ViewHolder(view);
    }

    @Override
    public void onBindViewHolder(@NonNull AdminBortjournalAdapter.ViewHolder holder, int position) {
        BortjournalPost post = posts.get(position);

```



```

holder.brandModelTextView.setText(post.getBrand() + " " + post.getModel());
holder.titleTextView.setText(post.getTitle());

holder.itemView.setOnClickListener(v -> {
    if (openListener != null) openListener.onOpen(post);
});

holder.approveButton.setOnClickListener(v -> {
    if (approveListener != null) approveListener.onApprove(post);
});

holder.deleteButton.setOnClickListener(v -> {
    if (deleteListener != null) deleteListener.onDelete(post);
});
}

@Override
public int getItemCount() {
    return posts.size();
}

public static class ViewHolder extends RecyclerView.ViewHolder {
    TextView titleTextView, brandModelTextView;
    Button approveButton, deleteButton;

    public ViewHolder(@NonNull View itemView) {
        super(itemView);
        brandModelTextView = itemView.findViewById(R.id.adminBrandModel);
        titleTextView = itemView.findViewById(R.id.adminTitle);
        approveButton = itemView.findViewById(R.id.approveButton);
        deleteButton = itemView.findViewById(R.id.deleteButton);
    }
}
}

```

5) AdminCarAdapter.java

```

package com.example.drives;

import android.content.Context;
import android.content.Intent;
import android.view.LayoutInflater;
import android.view.View;
import android.view.ViewGroup;
import android.widget.Button;
import android.widget.TextView;
import android.widget.Toast;

import androidx.annotation.NonNull;
import androidx.recyclerview.widget.RecyclerView;

import com.google.firebase.firestore.FirebaseFirestore;

import java.util.List;

public class AdminCarAdapter extends RecyclerView.Adapter<AdminCarAdapter.CarViewHolder> {

    private Context context;
    private List<Car> carList;

    public AdminCarAdapter(Context context, List<Car> carList) {
        this.context = context;
        this.carList = carList;
    }

    @NonNull
    @Override
    public CarViewHolder onCreateViewHolder(@NonNull ViewGroup parent, int viewType) {
        View itemView = LayoutInflater.from(context).inflate(R.layout.item_car_admin, parent, false);
        return new CarViewHolder(itemView);
    }
}

```

```

@Override
public void onBindViewHolder(@NonNull CarViewHolder holder, int position) {
    Car car = carList.get(position);

    holder.tvBrand.setText(car.getBrand());
    holder.tvModel.setText(car.getModel());
    holder.tvPrice.setText(String.format("%d руб.", car.getPrice()));

    holder.btnAccept.setOnClickListener(v -> {
        holder.btnAccept.setEnabled(false); // анти-спам
        updateCarStatus(car.getId(), "approved", position);
    });

    holder.btnDelete.setOnClickListener(v -> {
        holder.btnDelete.setEnabled(false);
        deleteCar(car.getId(), position);
    });

    holder.itemView.setOnClickListener(v -> {
        Intent intent = new Intent(context, CenterActivity.class);
        intent.putExtra("carId", car.getId());
        context.startActivity(intent);
    });
}

@Override
public int getItemCount() {
    return carList.size();
}

public class CarViewHolder extends RecyclerView.ViewHolder {

    TextView tvBrand, tvModel, tvPrice;
    Button btnAccept, btnDelete;

    public CarViewHolder(@NonNull View itemView) {
        super(itemView);

        tvBrand = itemView.findViewById(R.id.tvBrand);
        tvModel = itemView.findViewById(R.id.tvModel);
        tvPrice = itemView.findViewById(R.id.tvPrice);
        btnAccept = itemView.findViewById(R.id.btnAccept);
        btnDelete = itemView.findViewById(R.id.btnDelete);
    }

    private void updateCarStatus(String carId, String status, int position) {
        FirebaseFirestore db = FirebaseFirestore.getInstance();
        db.collection("cars").document(carId)
            .update("status", status)
            .addOnSuccessListener(aVoid -> {
                Toast.makeText(context, "Объявление утверждено!", Toast.LENGTH_SHORT).show();
                carList.remove(position);
                notifyItemRemoved(position);
            })
            .addOnFailureListener(e -> {
                Toast.makeText(context, "Ошибка: " + e.getMessage(), Toast.LENGTH_SHORT).show();
            });
    }

    private void deleteCar(String carId, int position) {
        FirebaseFirestore db = FirebaseFirestore.getInstance();
        db.collection("cars").document(carId)
            .delete()
            .addOnSuccessListener(aVoid -> {
                Toast.makeText(context, "Объявление удалено!", Toast.LENGTH_SHORT).show();
                carList.remove(position);
                notifyItemRemoved(position);
            })
            .addOnFailureListener(e -> {
                Toast.makeText(context, "Ошибка: " + e.getMessage(), Toast.LENGTH_SHORT).show();
            });
    }
}

```

```

    }
}

```

6) AllActivity.java

```

package com.example.drivex;

import android.content.Intent;
import android.os.Bundle;
import android.util.Log;
import android.view.MenuItem;
import android.view.View;
import android.widget.AdapterView;
import android.widget.Button;
import android.widget.ImageButton;
import android.widget.Spinner;
import android.widget.TextView;
import android.widget.Toast;

import androidx.annotation.NonNull;
import androidx.appcompat.app.AppCompatActivity;
import androidx.recyclerview.widget.LinearLayoutManager;
import androidx.recyclerview.widget.RecyclerView;

import com.google.android.material.bottomnavigation.BottomNavigationView;
import com.google.firebase.auth.FirebaseAuth;
import com.google.firebase.firestore.FirebaseFirestore;
import com.google.firebase.firestore.QueryDocumentSnapshot;

import java.util.ArrayList;
import java.util.HashSet;
import java.util.List;
import java.util.Map;
import java.util.Set;

public class AllActivity extends AppCompatActivity {

    private RecyclerView recyclerView;
    private CarAdapter carAdapter;
    private Button resetFiltersButton, paramsButton;

    private List<Car> carList;
    private Spinner brandSpinner, modelSpinner;
    private List<String> brandList = new ArrayList<>();
    private List<String> modelList = new ArrayList<>();
    private String selectedBrand = null;
    private String selectedModel = null;

    private ImageButton filterButton;

    private FirebaseFirestore db;
    private Set<String> favoriteCarIds = new HashSet<>();
    private FirebaseAuth auth;
    private TextView adsCountTextView;

    private final BottomNavigationView.OnNavigationItemSelectedListener navListener =
        new BottomNavigationView.OnNavigationItemSelectedListener() {
            @Override
            public boolean onNavigationItemSelectedListener(@NonNull MenuItem item) {
                int id = item.getItemId();

                if (id == R.id.nav_home) {
                    startActivity(new Intent(AllActivity.this, AllActivity.class));
                    return true;
                } else if (id == R.id.nav_saved) {
                    startActivity(new Intent(AllActivity.this, FavoritesActivity.class));
                    return true;
                } else if (id == R.id.nav_create) {
                    startActivity(new Intent(AllActivity.this, SelectBrandActivity.class));
                    return true;
                } else if (id == R.id.nav_profile) {

```

```

        startActivity(new Intent(AllActivity.this, UserProfileActivity.class));
        return true;
    } else if (id == R.id.nav_garage) {
        startActivity(new Intent(AllActivity.this, BortjournalActivity.class));
        return true;
    }
    return false;
}
};

@Override
protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_all);

    db = FirebaseFirestore.getInstance();
    auth = FirebaseAuth.getInstance();

    carList = new ArrayList<>();
    carAdapter = new CarAdapter(this, carList);

    recyclerView = findViewById(R.id.recyclerView);
    recyclerView.setLayoutManager(new LinearLayoutManager(this));
    recyclerView.setAdapter(carAdapter);

    adsCountTextView = findViewById(R.id.adsCountTextView);
    filterButton = findViewById(R.id.filterButton);
    brandSpinner = findViewById(R.id.brandSpinner);
    modelSpinner = findViewById(R.id.modelSpinner);
    resetFiltersButton = findViewById(R.id.resetFiltersButton);
    paramsButton = findViewById(R.id.paramsButton);
    paramsButton.setOnClickListener(v -> {
        Intent intent = new Intent(this, FilterActivity.class);
        startActivityForResult(intent, 101);
    });

    filterButton.setOnClickListener(v -> showFilterMenu());

    resetFiltersButton.setOnClickListener(v -> {
        brandSpinner.setSelection(0);
        modelSpinner.setSelection(0);
        selectedBrand = null;
        selectedModel = null;
        loadCars();
    });

    loadFavoriteCars();
    loadCars();
    loadBrands();

    BottomNavigationView bottomNavigationView = findViewById(R.id.bottomNavigation);
    bottomNavigationView.setOnNavigationItemSelectedListener(navListener);
} private void applyAdvancedFilters(Intent data) {
    db.collection("cars")
        .whereEqualTo("status", "approved")
        .get()
        .addOnSuccessListener(queryDocumentSnapshots -> {
            carList.clear();
            for (QueryDocumentSnapshot doc : queryDocumentSnapshots) {
                boolean isValid = true;

                Long year = doc.getLong("year");
                Double volume = doc.getDouble("volume");
                Long horsepower = doc.getLong("horsepower");
                Long owners = doc.getLong("owners");
                Long price = doc.getLong("price");

                String color = doc.getString("color");
                String body = doc.getString("body");
                String drive = doc.getString("drive");
            }
        });
}

```

```

String fuel = doc.getString("fuel");
String transmission = doc.getString("transmission");
String city = doc.getString("city");

isValid &= checkRange(year, data.getStringExtra("yearFrom"), data.getStringExtra("yearTo"));
isValid &= checkRange(volume, data.getStringExtra("volumeFrom"), data.getStringExtra("volumeTo"));
isValid &= checkRange(horsepower, data.getStringExtra("powerFrom"), data.getStringExtra("powerTo"));
isValid &= checkRange(owners, null, data.getStringExtra("ownersTo"));
isValid &= checkRange(price, data.getStringExtra("priceFrom"), data.getStringExtra("priceTo"));

isValid &= checkString(color, data.getStringExtra("color"));
isValid &= checkString(body, data.getStringExtra("body"));
isValid &= checkString(drive, data.getStringExtra("drive"));
isValid &= checkString(fuel, data.getStringExtra("fuel"));
isValid &= checkString(transmission, data.getStringExtra("transmission"));
isValid &= checkString(city, data.getStringExtra("city"));

if (isValid) {
    String photoone = doc.getString("photoone");
    if (photoone == null) photoone = "";

    long mileage = doc.getLong("mileage") != null ? doc.getLong("mileage") : 0;

    Car car = new Car(
        doc.getId(),
        doc.getString("brand"),
        doc.getString("model"),
        photoone,
        mileage,
        doc.getLong("price")
    );

    car.setFavorite(favoriteCarIds.contains(car.getId()));
    carList.add(car);
}

adsCountTextView.setText("Найдено объявлений: " + carList.size());
carAdapter.notifyDataSetChanged();
});
}

private boolean checkRange(Number value, String fromStr, String toStr) {
    if (value == null) return false;

    try {
        double doubleValue = value.doubleValue();

        if (fromStr != null && doubleValue < Double.parseDouble(fromStr)) return false;
        if (toStr != null && doubleValue > Double.parseDouble(toStr)) return false;
    } catch (NumberFormatException e) {
        return false;
    }
    return true;
}

private boolean checkString(String fieldValue, String expected) {
    if (expected == null) return true; // Не фильтруем
    return expected.equalsIgnoreCase(fieldValue);
}

@Override
protected void onActivityResult(int requestCode, int resultCode, Intent data) {
    super.onActivityResult(requestCode, resultCode, data);
    if (requestCode == 101 && resultCode == RESULT_OK && data != null) {
        applyAdvancedFilters(data);
    }
}

private void loadFavoriteCars() {
    String userId = auth.getCurrentUser().getUid();

```

```

        db.collection("users").document(userId).get()
            .addOnSuccessListener(documentSnapshot -> {
                if (documentSnapshot.exists() && documentSnapshot.contains("favorites")) {
                    List<String> favoriteCarIdsList = (List<String>) documentSnapshot.get("favorites");
                    if (favoriteCarIdsList != null) {
                        favoriteCarIds.addAll(favoriteCarIdsList);
                    }
                }
            })
            .addOnFailureListener(e -> Log.e("AllActivity", "Ошибка загрузки избранных машин", e));
    }

    private void showFilterMenu() {
        android.widget.PopupMenu popupMenu = new android.widget.PopupMenu(this, filterButton);
        popupMenu.getMenu().add("Цена ↑");
        popupMenu.getMenu().add("Цена ↓");
        popupMenu.getMenu().add("Новые");

        popupMenu.setOnMenuItemClickListener(item -> {
            String selected = item.getTitle().toString();

            switch (selected) {
                case "Цена ↑":
                    carList.sort((a, b) -> Long.compare(a.getPrice(), b.getPrice()));
                    break;
                case "Цена ↓":
                    carList.sort((a, b) -> Long.compare(b.getPrice(), a.getPrice()));
                    break;
                case "Новые":
                    carList.sort((a, b) -> b.getId().compareTo(a.getId()));
                    break;
            }

            carAdapter.notifyDataSetChanged();
            return true;
        });

        popupMenu.show();
    }

    private void loadBrands() {
        db.collection("dfd").document("models")
            .get()
            .addOnSuccessListener(documentSnapshot -> {
                if (documentSnapshot.exists()) {
                    Map<String, Object> data = documentSnapshot.getData();
                    if (data != null) {
                        brandList.clear();
                        brandList.add("Мопед");

                        brandList.addAll(data.keySet());

                        ArrayAdapter<String> brandAdapter = new ArrayAdapter<>(this,
                            android.R.layout.simple_spinner_item, brandList);
                        brandAdapter.setDropDownViewResource(android.R.layout.simple_spinner_dropdown_item);
                        brandSpinner.setAdapter(brandAdapter);

                        brandSpinner.setOnItemSelectedListener(new android.widget.AdapterView.OnItemSelectedListener() {
                            @Override
                            public void onItemSelected(android.widget.AdapterView<?> parent, View view, int position, long id) {
                                if (position == 0) return;
                                selectedBrand = brandList.get(position);
                                loadModels(selectedBrand, data);
                            }

                            @Override
                            public void onNothingSelected(android.widget.AdapterView<?> parent) {}
                        });
                    }
                }
            });
    }

    private void loadModels(String brand, Map<String, Object> data) {
        Object rawModels = data.get(brand);
    }

```

```

if (rawModels instanceof List) {
    List<String> models = (List<String>) rawModels;
    modelList.clear();
    modelList.add("Модель");
    modelList.addAll(models);

    ArrayAdapter<String> modelAdapter = new ArrayAdapter<>(this,
        android.R.layout.simple_spinner_item, modelList);
    modelAdapter.setDropDownViewResource(android.R.layout.simple_spinner_dropdown_item);
    modelSpinner.setAdapter(modelAdapter);

    modelSpinner.setOnItemClickListener(new android.widget.AdapterView.OnItemClickListener() {
        @Override
        public void onItemClick(android.widget.AdapterView<?> parent, View view, int position, long id) {
            if (position == 0) return;
            selectedModel = modelList.get(position);
            filterCars();
        }

        @Override
        public void onNothingSelected(android.widget.AdapterView<?> parent) {}
    });
}

private void filterCars() {
    db.collection("cars")
        .whereEqualTo("status", "approved")
        .whereEqualTo("brand", selectedBrand)
        .whereEqualTo("model", selectedModel)
        .get()
        .addOnSuccessListener(queryDocumentSnapshots -> {
            carList.clear();
            for (QueryDocumentSnapshot document : queryDocumentSnapshots) {
                String photoone = document.getString("photoone");
                if (photoone == null) photoone = "";

                long mileage = document.getLong("mileage") != null ? document.getLong("mileage") : 0;

                Car car = new Car(
                    document.getId(),
                    document.getString("brand"),
                    document.getString("model"),
                    photoone,
                    mileage,
                    document.getLong("price")
                );

                car.setFavorite(favoriteCarIds.contains(car.getId()));
                carList.add(car);
            }

            adsCountTextView.setText("Найдено объявлений: " + carList.size());
            carAdapter.notifyDataSetChanged();
        });
}

private long getMileage(Car car) {
    try {
        java.lang.reflect.Field mileageField = car.getClass().getDeclaredField("mileage");
        mileageField.setAccessible(true);
        Object value = mileageField.get(car);
        return value instanceof Long ? (Long) value : 0L;
    } catch (Exception e) {
        return 0L;
    }
}

private void loadCars() {
    db.collection("cars")
        .whereEqualTo("status", "approved")
        .get()

```

```

        .addOnCompleteListener(task -> {
            if (task.isSuccessful()) {
                carList.clear();
                for (QueryDocumentSnapshot document : task.getResult()) {
                    String photoone = document.getString("photoone");
                    if (photoone == null) {
                        photoone = "";
                    }

                    long mileage = document.getLong("mileage") != null ? document.getLong("mileage") : 0;

                    Car car = new Car(
                        document.getId(),
                        document.getString("brand"),
                        document.getString("model"),
                        photoone,
                        mileage,
                        document.getLong("price")
                    );
                    car.setFavorite(favoriteCarIds.contains(car.getId()));
                    carList.add(car);
                }

                adsCountTextView.setText(carList.size() + " предложений");

                carAdapter.notifyDataSetChanged();
            } else {
                Log.e("AllActivity", "Ошибка загрузки машин", task.getException());
            }
        });
    }
}

```

7) BortjournalActivity.java;

```

package com.example.drivee;

import android.content.Intent;
import android.os.Bundle;
import android.widget.Button;

import androidx.appcompat.app.AppCompatActivity;
import androidx.recyclerview.widget.LinearLayoutManager;
import androidx.recyclerview.widget.RecyclerView;

import com.google.firebase.firestore.FirebaseFirestore;
import com.google.firebase.firestore.Query;
import com.google.firebase.firestore.QueryDocumentSnapshot;

import java.util.ArrayList;
import java.util.List;

public class BortjournalActivity extends AppCompatActivity {

    private RecyclerView postsRecyclerView;
    private Button createPostButton;
    private FirebaseFirestore db;
    private List<BortjournalPost> posts = new ArrayList<>();
    private BortjournalAdapter adapter;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.bortjournal_activity);

        postsRecyclerView = findViewById(R.id.postsRecyclerView);
        createPostButton = findViewById(R.id.createPostButton);

        db = FirebaseFirestore.getInstance();

        adapter = new BortjournalAdapter(this, posts);
    }
}

```



```

postsRecyclerView.setLayoutManager(new LinearLayoutManager(this));
postsRecyclerView.setAdapter(adapter);

createPostButton.setOnClickListener(v -> {
    startActivity(new Intent(this, CreatePostActivity.class));
});

loadPosts();
}

private void loadPosts() {
    db.collection("bortjournal")
        .whereEqualTo("status", "approved")
        .orderBy("timestamp", Query.Direction.DESENDING)
        .get()
        .addOnSuccessListener(queryDocumentSnapshots -> {
            posts.clear();
            for (QueryDocumentSnapshot doc : queryDocumentSnapshots) {
                BortjournalPost post = doc.toObject(BortjournalPost.class);
                posts.add(post);
            }
            adapter.notifyDataSetChanged();
        });
}
}

```

8) BortjournalAdapter.java;

```

package com.example.drivee;

import android.content.Context;
import android.content.Intent;
import android.graphics.Bitmap;
import android.graphics.BitmapFactory;
import android.graphics.Canvas;
import android.graphics.Paint;
import android.graphics.PorterDuffXfermode;
import android.graphics.Rect;
import android.graphics.RectF;
import android.graphics.PorterDuff;
import android.util.Base64;
import android.view.LayoutInflater;
import android.view.View;
import android.view.ViewGroup;
import android.widget.ImageView;
import android.widget.TextView;

import androidx.annotation.NonNull;
import androidx.recyclerview.widget.RecyclerView;

import com.google.firebase.firestore.FirebaseFirestore;

import java.util.List;

public class BortjournalAdapter extends RecyclerView.Adapter<BortjournalAdapter.PostViewHolder> {

    private Context context;
    private List<BortjournalPost> postList;
    private FirebaseFirestore db = FirebaseFirestore.getInstance();

    public BortjournalAdapter(Context context, List<BortjournalPost> postList) {
        this.context = context;
        this.postList = postList;
    }

    @NonNull
    @Override
    public PostViewHolder onCreateViewHolder(@NonNull ViewGroup parent, int viewType) {
        View view = LayoutInflater.from(context).inflate(R.layout.item_bortjournal, parent, false);
        return new PostViewHolder(view);
    }

```

```

    }

    @Override
    public void onBindViewHolder(@NonNull PostViewHolder holder, int position) {
        BortjournalPost post = postList.get(position);

        holder.brandModelTextView.setText(post.getBrand() + " " + post.getModel());
        holder.titleTextView.setText(post.getTitle());
        holder.mileageTextView.setText("Пробег: " + post.getMileage() + " км");

        // Загружаем имя и аватар пользователя
        db.collection("users").document(post.getUserId())
            .get()
            .addOnSuccessListener(doc -> {
                String name = doc.getString("name");
                String imageBase64 = doc.getString("profile_image");

                if (name != null) {
                    holder.userNameTextView.setText(name);
                }

                if (imageBase64 != null && !imageBase64.isEmpty()) {
                    try {
                        byte[] decoded = Base64.decode(imageBase64, Base64.DEFAULT);
                        Bitmap bitmap = BitmapFactory.decodeByteArray(decoded, 0, decoded.length);
                        holder.profileImageView.setImageBitmap(getCircularBitmap(bitmap));
                    } catch (Exception e) {
                        e.printStackTrace();
                    }
                } else {
                    holder.profileImageView.setImageResource(R.drawable.logo);
                }
            });

        holder.itemView.setOnClickListener(v -> {
            Intent intent = new Intent(context, BortjournalDetailActivity.class);
            intent.putExtra("brand", post.getBrand());
            intent.putExtra("model", post.getModel());
            intent.putExtra("title", post.getTitle());
            intent.putExtra("content", post.getContent());
            context.startActivity(intent);
        });
    }

    @Override
    public int getItemCount() {
        return postList.size();
    }

    public static class PostViewHolder extends RecyclerView.ViewHolder {
        TextView brandModelTextView, titleTextView, mileageTextView, userNameTextView;
        ImageView profileImageView;

        public PostViewHolder(@NonNull View itemView) {
            super(itemView);
            brandModelTextView = itemView.findViewById(R.id.brandModelTextView);
            titleTextView = itemView.findViewById(R.id.titleTextView);
            mileageTextView = itemView.findViewById(R.id.mileageTextView);
            userNameTextView = itemView.findViewById(R.id.userNameTextView);
            profileImageView = itemView.findViewById(R.id.profileImageView);
        }
    }

    private Bitmap getCircularBitmap(Bitmap bitmap) {
        int size = Math.min(bitmap.getWidth(), bitmap.getHeight());
        Bitmap output = Bitmap.createBitmap(size, size, Bitmap.Config.ARGB_8888);

        Canvas canvas = new Canvas(output);
        final Paint paint = new Paint();
        final Rect rect = new Rect(0, 0, size, size);
        final RectF rectF = new RectF(rect);

        paint.setAntiAlias(true);

```

```

        canvas.drawCircle(size / 2f, size / 2f, size / 2f, paint);
        paint.setXfermode(new PorterDuffXfermode(PorterDuff.Mode.SRC_IN));
        canvas.drawBitmap(bitmap, null, rect, paint);

        return output;
    }
}

```

9) BortjournalDetailActivity.java;

```

package com.example.drivex;

import android.os.Bundle;
import android.widget.TextView;

import androidx.appcompat.app.AppCompatActivity;

public class BortjournalDetailActivity extends AppCompatActivity {

    private TextView detailBrandModel, detailTitle, detailContent;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.bortjournal_detail_activity);

        detailBrandModel = findViewById(R.id.detailBrandModel);
        detailTitle = findViewById(R.id.detailTitle);
        detailContent = findViewById(R.id.detailContent);

        String brand = getIntent().getStringExtra("brand");
        String model = getIntent().getStringExtra("model");
        String title = getIntent().getStringExtra("title");
        String content = getIntent().getStringExtra("content");

        detailBrandModel.setText(brand + " " + model);
        detailTitle.setText(title);
        detailContent.setText(content);
    }
}

```

10) BortjournalPost.java;

```

package com.example.drivex;

public class BortjournalPost {
    private String id;
    private String brand;
    private String model;
    private String title;
    private String content;
    private String userId;
    private long mileage;
    private String status;

    public BortjournalPost() {
    }

    public String getId() {
        return id;
    }

    public void setId(String id) {
        this.id = id;
    }

    public String getBrand() {
        return brand;
    }
}

```

```

public void setBrand(String brand) {
    this.brand = brand;
}

public String getModel() {
    return model;
}

public void setModel(String model) {
    this.model = model;
}

public String getTitle() {
    return title;
}

public void setTitle(String title) {
    this.title = title;
}

public String getContent() {
    return content;
}

public void setContent(String content) {
    this.content = content;
}

public String getUserId() {
    return userId;
}

public void setUserId(String userId) {
    this.userId = userId;
}

public long getMileage() {
    return mileage;
}

public void setMileage(long mileage) {
    this.mileage = mileage;
}

public String getStatus() {
    return status;
}

public void setStatus(String status) {
    this.status = status;
}
}

```

11) Car.java;

```

package com.example.drivee;

import android.util.Log;

import com.google.android.gms.common.api.internal.IStatusCallback;

public class Car {
    private String id;
    private String brand;
    private String model;
    private String photoBase64;
    private long mileage;
    private long price;
    private boolean isFavorite;
    private String status;
}

```

```

// Конструктор
public Car(String id, String brand, String model, String photoBase64, long mileage, long price) {
    this.id = id;
    this.brand = brand;
    this.model = model;
    this.photoBase64 = photoBase64;
    this.mileage = mileage;
    this.price = price;
}

public String getId() { return id; }

public String getBrand() { return brand; }

public String getModel() { return model; }

public String getPhotoBase64() { return photoBase64; }

public long getMileage() { return mileage; }

public long getPrice() { return price; }

public boolean isFavorite() { return isFavorite; }

public void setFavorite(boolean favorite) { isFavorite = favorite; }

public String getStatus() { return status; }

public void setStatus(String status) { this.status = status; }
}

```

12) CarAdapter.java;

```

package com.example.drivee;

import android.content.Context;
import android.content.Intent;
import android.graphics.Bitmap;
import android.graphics.BitmapFactory;
import android.util.Base64;
import android.view.LayoutInflater;
import android.view.View;
import android.view.ViewGroup;
import android.widget.ImageButton;
import android.widget.ImageView;
import android.widget.TextView;
import android.widget.Toast;

import androidx.annotation.NonNull;
import androidx.recyclerview.widget.RecyclerView;

import com.google.firebase.auth.FirebaseAuth;
import com.google.firebase.firestore.FieldValue;
import com.google.firebase.firestore.FirebaseFirestore;

import java.text.DecimalFormat;
import java.util.List;

public class CarAdapter extends RecyclerView.Adapter<CarAdapter.CarViewHolder> {

    private Context context;
    private List<Car> carList;

    private boolean showStatus = true;
    private boolean showFavorite = true;

    private FirebaseAuth auth = FirebaseAuth.getInstance();
    private FirebaseFirestore db = FirebaseFirestore.getInstance();

    public CarAdapter(Context context, List<Car> carList) {

```

```

        this(context, carList, true, false);
    }

    public CarAdapter(Context context, List<Car> carList, boolean showFavorite, boolean showStatus) {
        this.context = context;
        this.carList = carList;
        this.showFavorite = showFavorite;
        this.showStatus = showStatus;
    }

    @NonNull
    @Override
    public CarViewHolder onCreateViewHolder(@NonNull ViewGroup parent, int viewType) {
        View view = LayoutInflater.from(context).inflate(R.layout.item_car, parent, false);
        return new CarViewHolder(view);
    }

    @Override
    public void onBindViewHolder(@NonNull CarViewHolder holder, int position) {
        Car car = carList.get(position);

        holder.carTitleTextView.setText(car.getBrand() + " " + car.getModel());
        DecimalFormat formatter = new DecimalFormat("#,###");
        String formattedPrice = formatter.format(car.getPrice()).replace(",", " ");
        holder.carPriceTextView.setText(formattedPrice + " P");

        // □ Обработка статуса (с переводом)
        if (showStatus && holder.carStatusTextView != null && car.getStatus() != null) {
            holder.carStatusTextView.setVisibility(View.VISIBLE);

            String statusTranslated;
            switch (car.getStatus()) {
                case "approved":
                    statusTranslated = "Подтверждено";
                    break;
                case "pending":
                    statusTranslated = "На проверке";
                    break;
                case "rejected":
                    statusTranslated = "Отклонено";
                    break;
                default:
                    statusTranslated = car.getStatus();
                    break;
            }

            holder.carStatusTextView.setText("Статус: " + statusTranslated);
        } else if (holder.carStatusTextView != null) {
            holder.carStatusTextView.setVisibility(View.GONE);
        }

        // Фото из base64
        String base64 = car.getPhotoBase64();
        if (base64 != null && !base64.isEmpty()) {
            try {
                byte[] decodedBytes = Base64.decode(base64, Base64.DEFAULT);
                Bitmap bitmap = BitmapFactory.decodeByteArray(decodedBytes, 0, decodedBytes.length);
                holder.carImageView.setImageBitmap(bitmap);
            } catch (Exception e) {
                e.printStackTrace();
                holder.carImageView.setImageResource(R.drawable.logo);
            }
        } else {
            holder.carImageView.setImageResource(R.drawable.logo);
        }

        // Кнопка "избранное"
        if (showFavorite) {
            holder.favoriteButton.setVisibility(View.VISIBLE);
            updateFavoriteIcon(holder.favoriteButton, car.isFavorite());

            holder.favoriteButton.setOnClickListener(v -> {
                boolean isNowFavorite = !car.isFavorite();

```

```

        car.setFavorite(isNowFavorite);
        updateFavoriteIcon(holder.favoriteButton, isNowFavorite);
        updateFavoriteInFirebase(car.getId(), isNowFavorite);
    });
} else {
    holder.favoriteButton.setVisibility(View.GONE); // скрываем в профиле
}
if (showStatus && holder.deleteButton != null) {
    holder.deleteButton.setVisibility(View.VISIBLE);
    holder.deleteButton.setOnClickListener(v -> {
        String carId = car.getId();
        db.collection("cars").document(carId)
            .delete()
            .addOnSuccessListener(unused -> {
                carList.remove(position);
                notifyItemRemoved(position);
                Toast.makeText(context, "Машина удалена", Toast.LENGTH_SHORT).show();
            })
            .addOnFailureListener(e -> Toast.makeText(context, "Ошибка при удалении",
Toast.LENGTH_SHORT).show());
    });
} else if (holder.deleteButton != null) {
    holder.deleteButton.setVisibility(View.GONE);
}
long mileage = 0;
try {
    java.lang.reflect.Field mileageField = car.getClass().getDeclaredField("mileage");
    mileageField.setAccessible(true);
    Object value = mileageField.get(car);
    if (value instanceof Long) mileage = (Long) value;
} catch (Exception e) {
    e.printStackTrace();
}

holder.carMileageTextView.setText("Пробег: " + mileage + " км");

holder.itemView.setOnClickListener(v -> {
    Intent intent = new Intent(context, CenterActivity.class);
    intent.putExtra("carId", car.getId());
    context.startActivity(intent);
});
}

@Override
public int getItemCount() {
    return carList.size();
}

public static class CarViewHolder extends RecyclerView.ViewHolder {
    ImageView carImageView;
    TextView carTitleTextView, carPriceTextView, carStatusTextView, deleteButton;
    TextView carMileageTextView;

    ImageButton favoriteButton;

    public CarViewHolder(@NonNull View itemView) {
        super(itemView);
        carImageView = itemView.findViewById(R.id.carImageView);
        carTitleTextView = itemView.findViewById(R.id.carTitleTextView);
        carPriceTextView = itemView.findViewById(R.id.carPriceTextView);
        carMileageTextView = itemView.findViewById(R.id.carMileageTextView);
        carStatusTextView = itemView.findViewById(R.id.carStatusTextView);
        favoriteButton = itemView.findViewById(R.id.favoriteButton);
        deleteButton = itemView.findViewById(R.id.deleteCarButton); // Добавили
    }
}

private void updateFavoriteIcon(ImageButton button, boolean isFavorite) {
    if (isFavorite) {
        button.setImageResource(R.drawable.ic_heart_filled);
    } else {

```

```

        button.setImageResource(R.drawable.ic_heart_outline);
    }
}

private void updateFavoriteInFirebase(String carId, boolean add) {
    String userId = auth.getCurrentUser().getUid();
    if (add) {
        db.collection("users").document(userId)
            .update("favorites", FieldValue.arrayUnion(carId));
    } else {
        db.collection("users").document(userId)
            .update("favorites", FieldValue.arrayRemove(carId));
    }
}
}
}

```

13) CarAdapterUser.java;

```

package com.example.drivee;

import android.content.Context;
import android.view.LayoutInflater;
import android.view.View;
import android.view.ViewGroup;
import android.widget.ImageView;
import android.widget.TextView;
import android.widget.Toast;

import androidx.annotation.NonNull;
import androidx.recyclerview.widget.RecyclerView;

import com.bumptech.glide.Glide;
import com.google.firebase.firestore.FirebaseFirestore;

import java.util.List;

public class CarAdapterUser extends RecyclerView.Adapter<CarAdapterUser.CarViewHolder> {

    private Context context;
    private List<UserCar> carList;
    private FirebaseFirestore db = FirebaseFirestore.getInstance();

    public CarAdapterUser(Context context, List<UserCar> carList) {
        this.context = context;
        this.carList = carList;
    }

    @NonNull
    @Override
    public CarViewHolder onCreateViewHolder(@NonNull ViewGroup parent, int viewType) {
        View view = LayoutInflater.from(context).inflate(R.layout.item_car_user, parent, false);
        return new CarViewHolder(view);
    }

    @Override
    public void onBindViewHolder(@NonNull CarViewHolder holder, int position) {
        UserCar car = carList.get(position);
        holder.title.setText(car.getBrand() + " " + car.getModel());
        holder.price.setText(car.getPrice() + " P");
        holder.status.setText("Cratyc: " + car.getStatus());

        // Загрузка фото
        if (car.getPhotoUrl() != null && !car.getPhotoUrl().isEmpty()) {
            Glide.with(context)
                .load(car.getPhotoUrl())
                .into(holder.imageView);
        } else {
            holder.imageView.setImageResource(R.drawable.logo);
        }

        holder.deleteButton.setOnClickListener(v -> {

```



```

        db.collection("cars").document(car.getId())
            .delete()
            .addOnSuccessListener(unused -> {
                carList.remove(position);
                notifyItemRemoved(position);
                notifyItemRangeChanged(position, carList.size());
                Toast.makeText(context, "Объявление удалено", Toast.LENGTH_SHORT).show();
            })
            .addOnFailureListener(e -> {
                Toast.makeText(context, "Ошибка удаления", Toast.LENGTH_SHORT).show();
            });
    });
}

@Override
public int getItemCount() {
    return carList.size();
}

public static class CarViewHolder extends RecyclerView.ViewHolder {
    ImageView imageView;
    TextView title, price, status, deleteButton;

    public CarViewHolder(@NonNull View itemView) {
        super(itemView);
        imageView = itemView.findViewById(R.id.carImageView);
        title = itemView.findViewById(R.id.carTitleTextView);
        price = itemView.findViewById(R.id.carPriceTextView);
        status = itemView.findViewById(R.id.carStatusTextView);
        deleteButton = itemView.findViewById(R.id.deleteCarButton);
    }
}
}

```

14) CarForProfile.java;

```

package com.example.drivee;

public class CarForProfile {
    private String id;
    private String brand;
    private String model;
    private long price;
    private String status;

    public CarForProfile(String id, String brand, String model, long price, String status) {
        this.id = id;
        this.brand = brand;
        this.model = model;
        this.price = price;
        this.status = status;
    }

    public String getId() { return id; }
    public void setId(String id) { this.id = id; }

    public String getBrand() { return brand; }
    public void setBrand(String brand) { this.brand = brand; }

    public String getModel() { return model; }
    public void setModel(String model) { this.model = model; }

    public long getPrice() { return price; }
    public void setPrice(long price) { this.price = price; }

    public String getStatus() { return status; }
    public void setStatus(String status) { this.status = status; }
}

```

15) CenterActivity.java;

```

package com.example.drivee;

import android.content.Intent;
import android.content.pm.PackageManager;
import android.graphics.Bitmap;
import android.graphics.BitmapFactory;
import android.net.Uri;
import android.os.Bundle;
import android.util.Base64;
import android.util.Log;
import android.widget.ImageView;
import android.widget.TextView;
import android.widget.Toast;

import androidx.appcompat.app.AppCompatActivity;
import androidx.viewpager2.widget.ViewPager2;

import com.google.firebase.Timestamp;
import com.google.firebase.firestore.DocumentReference;
import com.google.firebase.firestore.DocumentSnapshot;
import com.google.firebase.firestore.FirebaseFirestore;

import java.text.SimpleDateFormat;
import java.util.ArrayList;
import java.util.Date;
import java.util.List;
import java.util.Locale;

public class CenterActivity extends AppCompatActivity {

    private static final String TAG = "CenterActivity";
    private ViewPager2 carImagePager;
    private ImageView userAvatar;
    private TextView userName, userPhone;

    private TextView vinTextView, dataPublicTextView, bodyTextView, brandTextView, colorTextView, descriptionTextView;
    private TextView driveTextView, fuelTextView, horsepowerTextView, mileageTextView, modelTextView;
    private TextView ownersTextView, priceTextView, transmissionTextView, volumeTextView, yearTextView;

    private FirebaseFirestore db;
    private String carId;
    private ImagePagerAdapter imageAdapter;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_center);

        carId = getIntent().getStringExtra("carId");
        if (carId == null || carId.isEmpty()) {
            Log.e(TAG, "Ошибка: carId не передан!");
            finish();
            return;
        }

        vinTextView = findViewById(R.id.vinTextView);
        userAvatar = findViewById(R.id.userAvatar);
        userName = findViewById(R.id.userName);
        userPhone = findViewById(R.id.userPhone);
        bodyTextView = findViewById(R.id.bodyTextView);
        brandTextView = findViewById(R.id.brandTextView);
        colorTextView = findViewById(R.id.colorTextView);
        descriptionTextView = findViewById(R.id.descriptionTextView);
        driveTextView = findViewById(R.id.driveTextView);
        fuelTextView = findViewById(R.id.fuelTextView);
        horsepowerTextView = findViewById(R.id.horsepowerTextView);
        mileageTextView = findViewById(R.id.mileageTextView);
        modelTextView = findViewById(R.id.modelTextView);
        carImagePager = findViewById(R.id.carImagePager);
        dataPublicTextView = findViewById(R.id.dataPublicTextView);
        ownersTextView = findViewById(R.id.ownersTextView);
        priceTextView = findViewById(R.id.priceTextView);
        transmissionTextView = findViewById(R.id.transmissionTextView);
    }

```

```

volumeTextView = findViewById(R.id.volumeTextView);
yearTextView = findViewById(R.id.yearTextView);

db = FirebaseFirestore.getInstance();

List<String> initialPhotoUrls = new ArrayList<>();
imageAdapter = new ImagePagerAdapter(this, initialPhotoUrls);
carImagePager.setAdapter(imageAdapter);

loadCarDetails();
TextView phoneTextView = findViewById(R.id.userPhone);
phoneTextView.setOnClickListener(v -> {
    String phoneNumber = phoneTextView.getText().toString().trim();
    Intent callIntent = new Intent(Intent.ACTION_CALL);
    callIntent.setData(Uri.parse("tel:" + phoneNumber));

    if (checkSelfPermission(android.Manifest.permission.CALL_PHONE) == PackageManager.PERMISSION_GRANTED)
    {
        startActivity(callIntent);
    } else {
        requestPermissions(new String[]{android.Manifest.permission.CALL_PHONE}, 1);
    }
});

}

@Override
public void onRequestPermissionsResult(int requestCode, String[] permissions, int[] grantResults) {
    super.onRequestPermissionsResult(requestCode, permissions, grantResults);
    if (requestCode == 1) {
        if (grantResults.length > 0 && grantResults[0] == PackageManager.PERMISSION_GRANTED) {
            Toast.makeText(this, "Разрешение получено, нажмите еще раз для звонка", Toast.LENGTH_SHORT).show();
        } else {
            Toast.makeText(this, "Разрешение на звонок не предоставлено", Toast.LENGTH_SHORT).show();
        }
    }
}

private void loadCarDetails() {
    DocumentReference docRef = db.collection("cars").document(carId);

    docRef.get().addOnCompleteListener(task -> {
        if (task.isSuccessful()) {
            DocumentSnapshot document = task.getResult();
            if (document.exists()) {
                vinTextView.setText("VIN: " + document.getString("vin"));
                bodyTextView.setText("Кузов: " + document.getString("body"));
                brandTextView.setText(document.getString("brand"));
                colorTextView.setText("Цвет: " + document.getString("color"));
                descriptionTextView.setText(document.getString("description"));
                driveTextView.setText("Привод: " + document.getString("drive"));

                Timestamp timestamp = document.getTimestamp("DataPublic");
                if (timestamp != null) {
                    Date date = timestamp.toDate();
                    SimpleDateFormat sdf = new SimpleDateFormat("dd MMMM yyyy", Locale.getDefault());
                    dataPublicTextView.setText(sdf.format(date));
                }

                fuelTextView.setText("Топливо: " + document.getString("fuel"));
                horsepowerTextView.setText("Мощность: " + document.getLong("horsepower") + " л.с.");
                mileageTextView.setText("Пробег: " + document.getLong("mileage") + " км");
                modelTextView.setText(document.getString("model"));
                ownersTextView.setText("Количество владельцев: " + document.getLong("owners"));
                priceTextView.setText(document.getLong("price") + " Р");
                transmissionTextView.setText("Трансмиссия: " + document.getString("transmission"));
                volumeTextView.setText("Объем двигателя: " + document.get("volume") + " л");
                yearTextView.setText(String.valueOf(document.getLong("year")));

                List<String> photoBase64List = new ArrayList<>();
                String[] photoFields = {"photoone", "phototwo", "photothree", "photofour", "photofive"};

```

```

        for (String field : photoFields) {
            String base64 = document.getString(field);
            if (base64 != null && !base64.isEmpty()) {
                photoBase64List.add(base64);
            }
        }
        String ownerId = document.getString("ownerId");
        if (ownerId != null) {
            db.collection("users").document(ownerId).get()
                .addOnSuccessListener(userDoc -> {
                    if (userDoc.exists()) {
                        userName.setText(userDoc.getString("name"));
                        userPhone.setText(userDoc.getString("phone"));

                        String profileBase64 = userDoc.getString("profile_image");
                        if (profileBase64 != null && !profileBase64.isEmpty()) {
                            byte[] decodedBytes = Base64.decode(profileBase64, Base64.DEFAULT);
                            Bitmap bitmap = BitmapFactory.decodeByteArray(decodedBytes, 0, decodedBytes.length);
                            userAvatar.setImageBitmap(bitmap);
                        } else {
                            userAvatar.setImageResource(R.drawable.user_prof_1);
                        }
                    }
                })
                .addOnFailureListener(e -> Log.e(TAG, "Ошибка загрузки данных пользователя", e));
        }
        imageAdapter.updateImages(photoBase64List);
    } else {
        Log.e(TAG, "Документ не найден!");
    }
} else {
    Log.e(TAG, "Ошибка при загрузке данных", task.getException());
}
});
}
}

```

16) CreateListingActivity.java;

```

package com.example.drivee;

import android.Manifest;
import android.content.pm.PackageManager;
import androidx.core.app.ActivityCompat;
import androidx.core.content.ContextCompat;
import com.google.android.gms.location.FusedLocationProviderClient;
import com.google.android.gms.location.LocationServices;
import android.location.Address;
import android.location.Geocoder;
import java.util.Locale;

import android.app.Activity;
import android.content.Intent;
import android.content.pm.PackageManager;
import android.graphics.Bitmap;
import android.graphics.BitmapFactory;
import android.location.Address;
import android.location.Geocoder;
import android.net.Uri;
import android.os.Bundle;
import android.util.Base64;
import android.view.View;
import android.widget.ArrayAdapter;
import android.widget.Button;
import android.widget.EditText;
import android.widget.ImageView;
import android.widget.Spinner;
import android.widget.Toast;

import androidx.annotation.NonNull;
import androidx.annotation.Nullable;
import androidx.appcompat.app.AppCompatActivity;

```

```

import androidx.core.app.ActivityCompat;
import androidx.core.content.ContextCompat;

import com.google.firebase.auth.FirebaseAuth;
import com.google.firebase.firestore.FirebaseFirestore;

import java.io.ByteArrayOutputStream;
import java.io.InputStream;
import java.util.ArrayList;
import java.util.HashMap;
import java.util.List;
import java.util.Locale;
import java.util.Map;

public class CreateListingActivity extends AppCompatActivity {

    private List<ImageView> imagePreviews = new ArrayList<>();
    private EditText editVin, editBrand, editModel, editYear, editColor, editVolume, editHorsepower,
        editMileage, editOwners, editPrice, editDescription, editCity;
    private Spinner spinnerDrive, spinnerTransmission, spinnerFuel, spinnerBody;
    private Button btnCreateListing, btnUploadPhoto, btnResetPhotos;
    private final List<Uri> selectedImages = new ArrayList<>();

    private static final int MAX_PHOTOS = 5;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_create_listing);
        if (ContextCompat.checkSelfPermission(this, Manifest.permission.ACCESS_FINE_LOCATION)
            != PackageManager.PERMISSION_GRANTED) {
            ActivityCompat.requestPermissions(this, new String[]{Manifest.permission.ACCESS_FINE_LOCATION}, 1);
        } else {
            getCityFromLocation();
        }

        imagePreviews.add(findViewById(R.id.imagePreview1));
        imagePreviews.add(findViewById(R.id.imagePreview2));
        imagePreviews.add(findViewById(R.id.imagePreview3));
        imagePreviews.add(findViewById(R.id.imagePreview4));
        imagePreviews.add(findViewById(R.id.imagePreview5));

        editVin = findViewById(R.id.editVin);
        editBrand = findViewById(R.id.editBrand);
        editModel = findViewById(R.id.editModel);
        editYear = findViewById(R.id.editYear);
        editColor = findViewById(R.id.editColor);
        editVolume = findViewById(R.id.editVolume);
        editHorsepower = findViewById(R.id.editHorsepower);
        editMileage = findViewById(R.id.editMileage);
        editOwners = findViewById(R.id.editOwners);
        editPrice = findViewById(R.id.editPrice);
        editDescription = findViewById(R.id.editDescription);
        editCity = findViewById(R.id.editCity);

        spinnerDrive = findViewById(R.id.spinnerDrive);
        spinnerTransmission = findViewById(R.id.spinnerTransmission);
        spinnerFuel = findViewById(R.id.spinnerFuel);
        spinnerBody = findViewById(R.id.spinnerBody);

        btnCreateListing = findViewById(R.id.btnCreateListing);
        btnUploadPhoto = findViewById(R.id.btnUploadPhoto);
        btnResetPhotos = findViewById(R.id.btnRemovePhoto5);

        String selectedBrand = getIntent().getStringExtra("selectedBrand");
        String selectedModel = getIntent().getStringExtra("selectedModel");

        if (selectedBrand != null && !selectedBrand.isEmpty()) {
            editBrand.setText(selectedBrand);
            editBrand.setEnabled(false);
        }

        if (selectedModel != null && !selectedModel.isEmpty()) {

```

```

        editModel.setText(selectedModel);
        editModel.setEnabled(false);
    }

    setupSpinners();

    btnUploadPhoto.setOnClickListener(v -> openGallery());
    btnCreateListing.setOnClickListener(v -> saveListing());
    btnResetPhotos.setOnClickListener(v -> resetPhotos());
}

private void getCityFromLocation() {
    if (ActivityCompat.checkSelfPermission(this, Manifest.permission.ACCESS_FINE_LOCATION) !=
        PackageManager.PERMISSION_GRANTED) {
        return;
    }

    FusedLocationProviderClient fusedLocationClient = LocationServices.getFusedLocationProviderClient(this);
    Geocoder geocoder = new Geocoder(this, Locale.getDefault());

    fusedLocationClient.getLastLocation().addOnSuccessListener(location -> {
        if (location != null) {
            try {
                List<Address> addresses = geocoder.getFromLocation(location.getLatitude(), location.getLongitude(), 1);
                if (addresses != null && !addresses.isEmpty()) {
                    String city = addresses.get(0).getLocality();
                    if (city != null) {
                        editCity.setText(city);
                    }
                }
            } catch (Exception e) {
                e.printStackTrace();
            }
        }
    });
}

@Override
public void onRequestPermissionsResult(int requestCode, @NonNull String[] permissions, @NonNull int[] grantResults) {
    super.onRequestPermissionsResult(requestCode, permissions, grantResults);
    if (requestCode == 1 && grantResults.length > 0 && grantResults[0] == PackageManager.PERMISSION_GRANTED) {
        getCityFromLocation();
    }
}

private void setupSpinners() {
    String[] driveOptions = {"Привод", "Полный", "Передний", "Задний"};
    String[] transmissionOptions = {"Коробка", "Автоматическая", "Механика", "Вариатор", "Робот"};
    String[] fuelOptions = {"Топливо", "Бензин", "Дизель", "Гибрид", "Электро", "ГБО", "Метан"};
    String[] bodyOptions = {"Тип кузова", "Купе", "Седан", "Хэтчбек", "Кроссовер", "Внедорожник"};

    spinnerDrive.setAdapter(new ArrayAdapter<>(this, android.R.layout.simple_spinner_dropdown_item, driveOptions));
    spinnerTransmission.setAdapter(new ArrayAdapter<>(this, android.R.layout.simple_spinner_dropdown_item,
transmissionOptions));
    spinnerFuel.setAdapter(new ArrayAdapter<>(this, android.R.layout.simple_spinner_dropdown_item, fuelOptions));
    spinnerBody.setAdapter(new ArrayAdapter<>(this, android.R.layout.simple_spinner_dropdown_item, bodyOptions));
}

private void openGallery() {
    if (selectedImages.size() < MAX_PHOTOS) {
        Intent intent = new Intent(Intent.ACTION_PICK);
        intent.setType("image/*");
        intent.putExtra(Intent.EXTRA_ALLOW_MULTIPLE, true);
        startActivityForResult(intent, 1);
    }
}

@Override
protected void onActivityResult(int requestCode, int resultCode, @Nullable Intent data) {
    super.onActivityResult(requestCode, resultCode, data);
    if (requestCode == 1 && resultCode == Activity.RESULT_OK && data != null) {
        if (data.getClipData() != null) {

```

```

        int count = data.getClipData().getItemCount();
        for (int i = 0; i < count && selectedImages.size() < MAX_PHOTOS; i++) {
            Uri imageUri = data.getClipData().getItemAt(i).getUri();
            selectedImages.add(imageUri);
            imagePreviews.get(i).setImageURI(imageUri);
        }
    } else if (data.getData() != null && selectedImages.size() < MAX_PHOTOS) {
        Uri imageUri = data.getData();
        selectedImages.add(imageUri);
        imagePreviews.get(0).setImageURI(imageUri);
    }
}

private void resetPhotos() {
    selectedImages.clear();
    for (ImageView imageView : imagePreviews) {
        imageView.setImageResource(android.R.color.darker_gray);
    }
}

private void saveListing() {
    String userId = FirebaseAuth.getInstance().getCurrentUser().getUid();

    if (spinnerDrive.getSelectedPosition() == 0) {
        Toast.makeText(this, "Выберите тип привода", Toast.LENGTH_SHORT).show();
        return;
    }
    if (spinnerTransmission.getSelectedPosition() == 0) {
        Toast.makeText(this, "Выберите тип коробки", Toast.LENGTH_SHORT).show();
        return;
    }
    if (spinnerFuel.getSelectedPosition() == 0) {
        Toast.makeText(this, "Выберите тип топлива", Toast.LENGTH_SHORT).show();
        return;
    }
    if (spinnerBody.getSelectedPosition() == 0) {
        Toast.makeText(this, "Выберите тип кузова", Toast.LENGTH_SHORT).show();
        return;
    }

    String vin = editVin.getText().toString().trim();
    if (vin.length() != 17) {
        Toast.makeText(this, "VIN должен содержать 17 символов", Toast.LENGTH_SHORT).show();
        return;
    }

    int year = parseIntSafe(editYear.getText().toString());
    int currentYear = java.util.Calendar.getInstance().get(java.util.Calendar.YEAR);

    if (year < 1850 || year > currentYear) {
        Toast.makeText(this, "Год выпуска должен быть между 1850 и " + currentYear, Toast.LENGTH_SHORT).show();
        return;
    }

    String color = editColor.getText().toString().trim();
    if (!color.matches("[A-Яа-яA-Za-z\\s]+$")) {
        Toast.makeText(this, "Цвет должен содержать только буквы", Toast.LENGTH_SHORT).show();
        return;
    }

    FirebaseFirestore db = FirebaseFirestore.getInstance();

    Map<String, Object> carData = new HashMap<>();
    carData.put("vin", vin);
    carData.put("brand", editBrand.getText().toString().trim());
    carData.put("model", editModel.getText().toString().trim());
    carData.put("year", year);
    carData.put("ownerId", userId);
    carData.put("color", editColor.getText().toString().trim());
    carData.put("volume", parseIntSafe(editVolume.getText().toString()));
    carData.put("horsepower", parseIntSafe(editHorsepower.getText().toString()));
    carData.put("mileage", parseIntSafe(editMileage.getText().toString()));

```

```

carData.put("owners", parseIntSafe(editOwners.getText().toString()));
carData.put("price", parseIntSafe(editPrice.getText().toString()));
carData.put("description", editDescription.getText().toString().trim());
carData.put("city", editCity.getText().toString().trim());
carData.put("drive", spinnerDrive.getSelectedItem().toString());
carData.put("transmission", spinnerTransmission.getSelectedItem().toString());
carData.put("fuel", spinnerFuel.getSelectedItem().toString());
carData.put("body", spinnerBody.getSelectedItem().toString());
carData.put("status", "pending");

for (int i = 0; i < 5; i++) {
    String keyName = "photo" + (i == 0 ? "one" :
        i == 1 ? "two" :
        i == 2 ? "three" :
        i == 3 ? "four" : "five");

    if (i < selectedImages.size()) {
        try {
            InputStream inputStream = getContentResolver().openInputStream(selectedImages.get(i));
            Bitmap bitmap = BitmapFactory.decodeStream(inputStream);
            ByteArrayOutputStream outputStream = new ByteArrayOutputStream();
            bitmap.compress(Bitmap.CompressFormat.JPEG, 70, outputStream);
            byte[] imageBytes = outputStream.toByteArray();
            String base64 = Base64.encodeToString(imageBytes, Base64.DEFAULT); // Кодируем изображение в Base64
            carData.put(keyName, base64); // Добавляем в коллекцию Firestore
        } catch (Exception e) {
            e.printStackTrace();
            carData.put(keyName, "");
        }
    } else {
        carData.put(keyName, "");
    }
}

db.collection("cars")
    .add(carData)
    .addOnSuccessListener(documentReference -> {
        Toast.makeText(this, "Объявление добавлено и ожидает модерации!", Toast.LENGTH_SHORT).show();
        Intent intent = new Intent(CreateListingActivity.this, AllActivity.class);
        startActivity(intent);
        finish();
    })
    .addOnFailureListener(e -> {
        Toast.makeText(this, "Ошибка: " + e.getMessage(), Toast.LENGTH_SHORT).show();
    });
}

private int parseIntSafe(String value) {
    try {
        return Integer.parseInt(value);
    } catch (NumberFormatException e) {
        return 0;
    }
}
}

```

17) CreatePostActivity.java;

```

package com.example.drivee;

import android.os.Bundle;
import android.text.TextUtils;
import android.widget.ArrayAdapter;
import android.widget.Button;
import android.widget.EditText;
import android.widget.Spinner;
import android.widget.Toast;

import androidx.annotation.Nullable;
import androidx.appcompat.app.AppCompatActivity;

```



```

import com.google.firebase.auth.FirebaseAuth;
import com.google.firebase.firestore.FieldValue;
import com.google.firebase.firestore.FirebaseFirestore;

import java.util.ArrayList;
import java.util.HashMap;
import java.util.List;
import java.util.Map;

public class CreatePostActivity extends AppCompatActivity {

    private Spinner brandSpinner, modelSpinner;
    private EditText titleEditText, contentEditText, mileageEditText;
    private Button publishButton;

    private FirebaseFirestore db;
    private FirebaseAuth auth;

    private Map<String, List<String>> brandModelMap = new HashMap<>();

    @Override
    protected void onCreate(@Nullable Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.create_post_activity);

        brandSpinner = findViewById(R.id.brandSpinner);
        modelSpinner = findViewById(R.id.modelSpinner);
        titleEditText = findViewById(R.id.titleEditText);
        contentEditText = findViewById(R.id.contentEditText);
        mileageEditText = findViewById(R.id.mileageEditText);
        publishButton = findViewById(R.id.publishButton);

        db = FirebaseFirestore.getInstance();
        auth = FirebaseAuth.getInstance();

        loadBrands();

        brandSpinner.setOnItemClickListener(new android.widget.AdapterView.OnItemClickListener() {
            @Override public void onItemClick(android.widget.AdapterView<?> parent, android.view.View view, int pos, long id)
            {
                String selectedBrand = brandSpinner.getSelectedItem().toString();
                loadModelsForBrand(selectedBrand);
            }

            @Override public void onNothingSelected(android.widget.AdapterView<?> parent) {}
        });

        publishButton.setOnClickListener(v -> publishPost());
    }

    private void loadBrands() {
        db.collection("dfd").document("models").get().addOnSuccessListener(documentSnapshot -> {
            if (documentSnapshot.exists()) {
                Map<String, Object> data = documentSnapshot.getData();
                if (data != null) {
                    List<String> brands = new ArrayList<>();
                    for (String key : data.keySet()) {
                        brands.add(key);
                        brandModelMap.put(key, (List<String>) data.get(key));
                    }
                    ArrayAdapter<String> adapter = new ArrayAdapter<>(this, android.R.layout.simple_spinner_item, brands);
                    adapter.setDropDownViewResource(android.R.layout.simple_spinner_dropdown_item);
                    brandSpinner.setAdapter(adapter);
                }
            }
        });
    }

    private void loadModelsForBrand(String brand) {
        List<String> models = brandModelMap.get(brand);
        if (models != null) {
            ArrayAdapter<String> adapter = new ArrayAdapter<>(this, android.R.layout.simple_spinner_item, models);
            adapter.setDropDownViewResource(android.R.layout.simple_spinner_dropdown_item);
        }
    }
}

```

```

        modelSpinner.setAdapter(adapter);
    }
}

private void publishPost() {
    String brand = brandSpinner.getSelectedItem().toString();
    String model = modelSpinner.getSelectedItem().toString();
    String title = titleEditText.getText().toString().trim();
    String content = contentEditText.getText().toString().trim();
    String mileageStr = mileageEditText.getText().toString().trim();

    if (TextUtils.isEmpty(brand) || TextUtils.isEmpty(model) || TextUtils.isEmpty(title)
        || TextUtils.isEmpty(content) || TextUtils.isEmpty(mileageStr)) {
        Toast.makeText(this, "Пожалуйста, заполните все поля", Toast.LENGTH_SHORT).show();
        return;
    }

    long mileage;
    try {
        mileage = Long.parseLong(mileageStr);
    } catch (NumberFormatException e) {
        Toast.makeText(this, "Некорректный пробег", Toast.LENGTH_SHORT).show();
        return;
    }

    String userId = auth.getCurrentUser().getUid();

    Map<String, Object> postMap = new HashMap<>();
    postMap.put("brand", brand);
    postMap.put("model", model);
    postMap.put("title", title);
    postMap.put("content", content);
    postMap.put("mileage", mileage);
    postMap.put("userId", userId);
    postMap.put("status", "pending");
    postMap.put("timestamp", FieldValue.serverTimestamp());

    db.collection("bortjornal")
        .add(postMap)
        .addOnSuccessListener(documentReference -> {
            Toast.makeText(this, "Запись отправлена на модерацию", Toast.LENGTH_SHORT).show();
            finish();
        })
        .addOnFailureListener(e -> {
            Toast.makeText(this, "Ошибка при сохранении", Toast.LENGTH_SHORT).show();
        });
}
}

```

18) FavoritesActivity.java;

```

package com.example.drivee;

import android.content.Intent;
import android.os.Bundle;
import android.util.Log;
import android.view.View;
import android.widget.TextView;

import androidx.appcompat.app.AppCompatActivity;
import androidx.recyclerview.widget.LinearLayoutManager;
import androidx.recyclerview.widget.RecyclerView;
import com.google.firebase.auth.FirebaseAuth;
import com.google.firebase.firestore.FirebaseFirestore;

import java.util.ArrayList;
import java.util.List;

public class FavoritesActivity extends AppCompatActivity {

    private RecyclerView recyclerView;

```

```

private CarAdapter carAdapter;
private List<Car> favoriteCars;
private FirebaseFirestore db;
private FirebaseAuth auth;
private View progressBar;

@Override
protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_favorites);

    recyclerView = findViewById(R.id.recyclerViewFavorites);
    progressBar = findViewById(R.id.progressBar);
    recyclerView.setLayoutManager(new LinearLayoutManager(this));

    favoriteCars = new ArrayList<>();
    carAdapter = new CarAdapter(this, favoriteCars);
    recyclerView.setAdapter(carAdapter);

    db = FirebaseFirestore.getInstance();
    auth = FirebaseAuth.getInstance();
    TextView backButton = findViewById(R.id.backButton);
    backButton.setOnClickListener(v -> {
        startActivity(new Intent(FavoritesActivity.this, AllActivity.class));
        finish();
    });

    loadFavoriteCars();
}

private void loadFavoriteCars() {
    progressBar.setVisibility(View.VISIBLE);
    String userId = auth.getCurrentUser().getUid();

    db.collection("users").document(userId).get()
        .addOnSuccessListener(documentSnapshot -> {
            if (documentSnapshot.exists() && documentSnapshot.contains("favorites")) {
                List<String> favoriteCarIds = (List<String>) documentSnapshot.get("favorites");
                if (favoriteCarIds != null && !favoriteCarIds.isEmpty()) {
                    fetchCarsOneByOne(favoriteCarIds);
                } else {
                    progressBar.setVisibility(View.GONE);
                }
            } else {
                progressBar.setVisibility(View.GONE);
            }
        })
        .addOnFailureListener(e -> {
            Log.e("FavoritesActivity", "Ошибка загрузки избранного", e);
            progressBar.setVisibility(View.GONE);
        });
}

private void fetchCarsOneByOne(List<String> carIds) {
    favoriteCars.clear();

    for (String carId : carIds) {
        db.collection("cars").document(carId).get()
            .addOnSuccessListener(documentSnapshot -> {
                if (documentSnapshot.exists()) {
                    long mileage = documentSnapshot.getLong("mileage") != null ? documentSnapshot.getLong("mileage") : 0;

                    Car car = new Car(
                        documentSnapshot.getId(),
                        documentSnapshot.getString("brand"),
                        documentSnapshot.getString("model"),
                        documentSnapshot.getString("photoone"),
                        mileage,
                        documentSnapshot.getLong("price")
                    );

                    car.setFavorite(true);
                }
            });
    }
}

```

```

        favoriteCars.add(car);
        carAdapter.notifyDataSetChanged();
    }
    progressBar.setVisibility(View.GONE);
})
.addOnFailureListener(e -> {
    Log.e("FavoritesActivity", "Ошибка загрузки машины", e);
    progressBar.setVisibility(View.GONE);
});
}
}
}

```

19) FilterActivity.java;

```
package com.example.drivee;
```

```
import android.content.Intent;
import android.os.Bundle;
import android.text.TextUtils;
import android.widget.ArrayAdapter;
import android.widget.Button;
import android.widget.EditText;
import android.widget.Spinner;
```

```
import androidx.appcompat.app.AppCompatActivity;
```

```
public class FilterActivity extends AppCompatActivity {
```

```
    private EditText yearFrom, yearTo, volumeFrom, volumeTo, powerFrom, powerTo, ownersTo, priceFrom, priceTo, cityInput;
    private Spinner colorSpinner, bodySpinner, driveSpinner, fuelSpinner, transmissionSpinner;
    private Button applyButton, cancelButton;
```

```
    @Override
```

```
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_filter);
```

```
        yearFrom = findViewById(R.id.yearFrom);
        yearTo = findViewById(R.id.yearTo);
        volumeFrom = findViewById(R.id.volumeFrom);
        volumeTo = findViewById(R.id.volumeTo);
        powerFrom = findViewById(R.id.powerFrom);
        powerTo = findViewById(R.id.powerTo);
        ownersTo = findViewById(R.id.ownersTo);
        priceFrom = findViewById(R.id.priceFrom);
        priceTo = findViewById(R.id.priceTo);
        cityInput = findViewById(R.id.cityInput);
```

```
        colorSpinner = findViewById(R.id.colorSpinner);
        bodySpinner = findViewById(R.id.bodySpinner);
        driveSpinner = findViewById(R.id.driveSpinner);
        fuelSpinner = findViewById(R.id.fuelSpinner);
        transmissionSpinner = findViewById(R.id.transmissionSpinner);
```

```
        applyButton = findViewById(R.id.applyButton);
        cancelButton = findViewById(R.id.cancelButton);
```

```
        setupSpinners();
```

```
        applyButton.setOnClickListener(v -> returnFilters());
        cancelButton.setOnClickListener(v -> finish());
    }
```

```
    private void setupSpinners() {
```

```
        String[] fuels = {"Топливо", "Бензин", "Дизель", "Гибрид", "Электро", "ГБО", "Метан"};
        String[] bodies = {"Тип кузова", "Купе", "Седан", "Хэтчбек", "Кроссовер", "Внедорожник"};
        String[] drives = {"Привод", "Полный", "Передний", "Задний"};
        String[] transmissions = {"Коробка", "Автоматическая", "Механика", "Вариатор", "Робот"};
        String[] colors = {"Цвет", "Красный", "Черный", "Белый", "Синий", "Зеленый", "Желтый", "Серый"};
```

```

        setupSpinner(colorSpinner, colors);
        setupSpinner(bodySpinner, bodies);
        setupSpinner(driveSpinner, drives);
        setupSpinner(fuelSpinner, fuels);
        setupSpinner(transmissionSpinner, transmissions);
    }

    private void setupSpinner(Spinner spinner, String[] values) {
        ArrayAdapter<String> adapter = new ArrayAdapter<>(this, android.R.layout.simple_spinner_item, values);
        adapter.setDropDownViewResource(android.R.layout.simple_spinner_dropdown_item);
        spinner.setAdapter(adapter);
    }

    private void returnFilters() {
        Intent result = new Intent();

        result.putExtra("yearFrom", getOrNull(yearFrom));
        result.putExtra("yearTo", getOrNull(yearTo));
        result.putExtra("volumeFrom", getOrNull(volumeFrom));
        result.putExtra("volumeTo", getOrNull(volumeTo));
        result.putExtra("powerFrom", getOrNull(powerFrom));
        result.putExtra("powerTo", getOrNull(powerTo));
        result.putExtra("ownersTo", getOrNull(ownersTo));
        result.putExtra("priceFrom", getOrNull(priceFrom));
        result.putExtra("priceTo", getOrNull(priceTo));
        result.putExtra("city", getOrNull(cityInput));

        result.putExtra("color", getSpinnerValue(colorSpinner));
        result.putExtra("body", getSpinnerValue(bodySpinner));
        result.putExtra("drive", getSpinnerValue(driveSpinner));
        result.putExtra("fuel", getSpinnerValue(fuelSpinner));
        result.putExtra("transmission", getSpinnerValue(transmissionSpinner));

        setResult(RESULT_OK, result);
        finish();
    }

    private String getOrNull(EditText editText) {
        String text = editText.getText().toString().trim();
        return TextUtils.isEmpty(text) ? null : text;
    }

    private String getSpinnerValue(Spinner spinner) {
        if (spinner.getSelectedItemPosition() == 0) {
            return null;
        }
        return spinner.getSelectedItem().toString();
    }
}

```

20) ImagePagerAdapter.java;

```

package com.example.drivee;

import android.content.Context;
import android.graphics.Bitmap;
import android.graphics.BitmapFactory;
import android.util.Base64;
import android.view.LayoutInflater;
import android.view.View;
import android.view.ViewGroup;
import android.widget.ImageView;

import androidx.annotation.NonNull;
import androidx.viewpager2.widget.ViewPager2;
import androidx.recyclerview.widget.RecyclerView;

import java.util.List;

public class ImagePagerAdapter extends RecyclerView.Adapter<ImagePagerAdapter.ImageViewHolder> {

```

```

private final Context context;
private List<String> photoBase64List;

public ImagePagerAdapter(Context context, List<String> photoBase64List) {
    this.context = context;
    this.photoBase64List = photoBase64List;
}

@NonNull
@Override
public ImageViewHolder onCreateViewHolder(@NonNull ViewGroup parent, int viewType) {
    View view = LayoutInflater.from(context).inflate(R.layout.item_car_image, parent, false);
    return new ImageViewHolder(view);
}

@Override
public void onBindViewHolder(@NonNull ImageViewHolder holder, int position) {
    String base64Image = photoBase64List.get(position);

    if (!base64Image.isEmpty()) {
        byte[] decodedString = Base64.decode(base64Image, Base64.DEFAULT);
        Bitmap decodedByte = BitmapFactory.decodeByteArray(decodedString, 0, decodedString.length);
        holder.imageView.setImageBitmap(decodedByte);
    } else {
        holder.imageView.setImageResource(R.drawable.logo);
    }
}

@Override
public int getItemCount() {
    return photoBase64List.size();
}

public void updateImages(List<String> newPhotoBase64List) {
    this.photoBase64List = newPhotoBase64List;
    notifyDataSetChanged();
}

public static class ImageViewHolder extends RecyclerView.ViewHolder {

    public ImageView imageView;

    public ImageViewHolder(View itemView) {
        super(itemView);
        imageView = itemView.findViewById(R.id.imageView);
    }
}
}

```

21) MainActivity.java;

```

package com.example.drivee;

import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.EditText;
import android.widget.Toast;
import android.widget.Button;
import androidx.appcompat.app.AppCompatActivity;
import com.google.firebase.auth.FirebaseAuth;
import com.google.firebase.auth.FirebaseUser;
import com.google.firebase.firestore.DocumentSnapshot;
import com.google.firebase.firestore.FirebaseFirestore;

public class MainActivity extends AppCompatActivity {
    private EditText emailEditText, passwordEditText;
    private Button loginButton, registerButton;
    private FirebaseAuth mAuth;

```

```

@Override
protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);
    Button resetPasswordButton = findViewById(R.id.btnResetPassword);
    resetPasswordButton.setOnClickListener(v -> {
        startActivity(new Intent(MainActivity.this, ResetPasswordActivity.class));
    });

    mAuth = FirebaseAuth.getInstance();

    emailEditText = findViewById(R.id.email);
    passwordEditText = findViewById(R.id.passwordtxt);
    loginButton = findViewById(R.id.btnVhod);
    registerButton = findViewById(R.id.btnReg);

    loginButton.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View v) {
            loginUser();
        }
    });

    registerButton.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View v) {
            Intent intent = new Intent(MainActivity.this, RegActivity.class);
            startActivity(intent);
        }
    });
}

private void loginUser() {
    String email = emailEditText.getText().toString().trim();
    String password = passwordEditText.getText().toString().trim();

    if (email.isEmpty() || password.isEmpty()) {
        Toast.makeText(MainActivity.this, "Заполните все поля", Toast.LENGTH_SHORT).show();
        return;
    }

    mAuth.signInWithEmailAndPassword(email, password)
        .addOnCompleteListener(this, task -> {
            if (task.isSuccessful()) {
                FirebaseUser user = mAuth.getCurrentUser();
                if (user != null) {
                    FirebaseFirestore db = FirebaseFirestore.getInstance();
                    db.collection("users").document(user.getUid()).get()
                        .addOnCompleteListener(roleTask -> {
                            if (roleTask.isSuccessful() && roleTask.getResult().exists()) {
                                DocumentSnapshot document = roleTask.getResult();
                                String role = document.getString("role");

                                if ("admin".equals(role)) {
                                    startActivity(new Intent(MainActivity.this, AdminActivity.class));
                                } else {
                                    startActivity(new Intent(MainActivity.this, AllActivity.class));
                                }
                            }

                            finish();
                        } else {
                            Toast.makeText(MainActivity.this, "Ошибка загрузки роли", Toast.LENGTH_SHORT).show();
                        }
                    });
                } else {
                    Toast.makeText(MainActivity.this, "Ошибка авторизации: " + task.getException().getMessage(),
                        Toast.LENGTH_LONG).show();
                }
            }
        });
}

```

```
}
```

22) ManageModelsActivity.java;

```
package com.example.drivee;

import android.os.Bundle;
import android.util.Log;
import android.view.View;
import android.widget.*;
import androidx.appcompat.app.AppCompatActivity;

import com.google.firebase.firestore.*;

import java.util.*;

public class ManageModelsActivity extends AppCompatActivity {

    EditText brandInput, modelInput;
    Button addBrandBtn, addModelBtn;
    Spinner brandSpinner;
    FirebaseFirestore db;
    ArrayAdapter<String> brandAdapter;
    List<String> brandList = new ArrayList<>();
    Map<String, List<String>> allData = new HashMap<>();
    DocumentReference docRef;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_manage_models);

        brandInput = findViewById(R.id.brandInput);
        modelInput = findViewById(R.id.modelInput);
        addBrandBtn = findViewById(R.id.addBrandBtn);
        addModelBtn = findViewById(R.id.addModelBtn);
        brandSpinner = findViewById(R.id.brandSpinner);

        db = FirebaseFirestore.getInstance();
        docRef = db.collection("dfd").document("models");

        brandAdapter = new ArrayAdapter<>(this, android.R.layout.simple_spinner_item, brandList);
        brandAdapter.setDropDownViewResource(android.R.layout.simple_spinner_dropdown_item);
        brandSpinner.setAdapter(brandAdapter);

        loadBrands();

        addBrandBtn.setOnClickListener(v -> {
            String brand = brandInput.getText().toString().trim();
            if (!brand.isEmpty()) {
                docRef.update(brand, new ArrayList<String>())
                    .addOnSuccessListener(unused -> {
                        Toast.makeText(this, "Марка добавлена", Toast.LENGTH_SHORT).show();
                        loadBrands();
                    })
                    .addOnFailureListener(e -> {
                        Map<String, Object> newBrand = new HashMap<>();
                        newBrand.put(brand, new ArrayList<String>());
                        docRef.set(newBrand, SetOptions.merge());
                        Toast.makeText(this, "Марка создана", Toast.LENGTH_SHORT).show();
                        loadBrands();
                    });
            }
        });

        addModelBtn.setOnClickListener(v -> {
            String model = modelInput.getText().toString().trim();
            String selectedBrand = brandSpinner.getSelectedItem().toString();

            if (!model.isEmpty() && selectedBrand != null) {
                docRef.get().addOnSuccessListener(snapshot -> {
```



```

        List<String> models = (List<String>) snapshot.get(selectedBrand);
        if (models == null) models = new ArrayList<>();
        if (!models.contains(model)) {
            models.add(model);
            docRef.update(selectedBrand, models);
            Toast.makeText(this, "Модель добавлена", Toast.LENGTH_SHORT).show();
        } else {
            Toast.makeText(this, "Модель уже существует", Toast.LENGTH_SHORT).show();
        }
    });
}
});
}
}

private void loadBrands() {
    docRef.get().addOnSuccessListener(documentSnapshot -> {
        if (documentSnapshot.exists()) {
            brandList.clear();
            allData.clear();
            Map<String, Object> data = documentSnapshot.getData();
            for (String brand : data.keySet()) {
                brandList.add(brand);
                allData.put(brand, (List<String>) data.get(brand));
            }
            brandAdapter.notifyDataSetChanged();
        }
    });
}
}
}

```

23) RegActivity.java;

```

package com.example.drivve;

import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.Toast;

import androidx.appcompat.app.AppCompatActivity;

import com.google.firebase.auth.FirebaseAuth;
import com.google.firebase.auth.FirebaseUser;
import com.google.firebase.firestore.FirebaseFirestore;

import java.util.HashMap;
import java.util.Map;

public class RegActivity extends AppCompatActivity {
    private EditText emailEditText, passwordEditText, confirmPasswordEditText, nameEditText, phoneEditText, dobEditText;
    private Button registerButton, backToLoginButton;
    private FirebaseAuth mAuth;
    private FirebaseFirestore db;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_reg);

        mAuth = FirebaseAuth.getInstance();
        db = FirebaseFirestore.getInstance();

        emailEditText = findViewById(R.id.email);
        passwordEditText = findViewById(R.id.passwordtxt);
        confirmPasswordEditText = findViewById(R.id.confirmPassword);
        nameEditText = findViewById(R.id.nameEditText);
        phoneEditText = findViewById(R.id.phoneEditText);
        dobEditText = findViewById(R.id.dobEditText);
        registerButton = findViewById(R.id.btnRegister);
    }
}

```

```

backToLoginButton = findViewById(R.id.btnBackToLogin);

registerButton.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
        registerUser();
    }
});

backToLoginButton.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
        startActivity(new Intent(RegActivity.this, MainActivity.class));
        finish();
    }
});
}

private void registerUser() {
    String email = emailEditText.getText().toString().trim();
    String password = passwordEditText.getText().toString().trim();
    String confirmPassword = confirmPasswordEditText.getText().toString().trim();
    String name = nameEditText.getText().toString().trim();
    String phone = phoneEditText.getText().toString().trim();
    String dob = dobEditText.getText().toString().trim();

    if (email.isEmpty() || password.isEmpty() || confirmPassword.isEmpty() || name.isEmpty() || phone.isEmpty() ||
    dob.isEmpty()) {
        Toast.makeText(RegActivity.this, "Заполните все поля", Toast.LENGTH_SHORT).show();
        return;
    }

    if (!password.equals(confirmPassword)) {
        Toast.makeText(RegActivity.this, "Пароли не совпадают", Toast.LENGTH_SHORT).show();
        return;
    }

    mAuth.createUserWithEmailAndPassword(email, password)
        .addOnCompleteListener(this, task -> {
            if (task.isSuccessful()) {
                FirebaseUser user = mAuth.getCurrentUser();

                saveUserData(user.getId(), name, email, phone, dob);

                Toast.makeText(RegActivity.this, "Добро пожаловать, " + user.getEmail(), Toast.LENGTH_SHORT).show();

                startActivity(new Intent(RegActivity.this, CenterActivity.class));
                finish();
            } else {
                Toast.makeText(RegActivity.this, "Ошибка регистрации: " + task.getException().getMessage(),
                Toast.LENGTH_LONG).show();
            }
        });
}

private void saveUserData(String userId, String name, String email, String phone, String dob) {
    Map<String, Object> user = new HashMap<>();
    user.put("name", name);
    user.put("email", email);
    user.put("phone", phone);
    user.put("role", "user");
    user.put("date_of_birth", dob);
    user.put("account_creation_date", System.currentTimeMillis());

    db.collection("users")
        .document(userId)
        .set(user)
        .addOnSuccessListener(aVoid -> {
            Toast.makeText(RegActivity.this, "Пользователь зарегистрирован", Toast.LENGTH_SHORT).show();
        })
        .addOnFailureListener(e -> {
            Toast.makeText(RegActivity.this, "Ошибка сохранения данных", Toast.LENGTH_SHORT).show();
        });
}

```

```

    }
}

```

24) ResetPasswordActivity.java;

```

package com.example.drivee;

import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.Toast;

import androidx.appcompat.app.AppCompatActivity;

import com.google.firebase.auth.FirebaseAuth;

public class ResetPasswordActivity extends AppCompatActivity {
    private EditText emailEditText;
    private Button resetPasswordButton;
    private FirebaseAuth mAuth;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_reset_password);

        emailEditText = findViewById(R.id.emailEditText);
        resetPasswordButton = findViewById(R.id.btnResetPassword);

        mAuth = FirebaseAuth.getInstance();

        resetPasswordButton.setOnClickListener(v -> {
            String email = emailEditText.getText().toString().trim();

            if (email.isEmpty()) {
                Toast.makeText(ResetPasswordActivity.this, "Введите ваш Email", Toast.LENGTH_SHORT).show();
                return;
            }

            mAuth.sendPasswordResetEmail(email)
                .addOnCompleteListener(task -> {
                    if (task.isSuccessful()) {
                        Toast.makeText(ResetPasswordActivity.this, "Инструкция по сбросу пароля отправлена на почту",
                            Toast.LENGTH_LONG).show();
                    } else {
                        Toast.makeText(ResetPasswordActivity.this, "Ошибка: " + task.getException().getMessage(),
                            Toast.LENGTH_LONG).show();
                    }
                });
        });
    }
}

```

25) SelectBrandActivity.java;

```

package com.example.drivee;

import android.content.Intent;
import android.os.Bundle;
import android.util.Log;
import android.view.View;
import android.widget.AdapterView;
import android.widget.Button;
import android.widget.Spinner;
import android.widget.Toast;

import androidx.appcompat.app.AppCompatActivity;

```

```

import com.google.firebase.firestore.DocumentSnapshot;
import com.google.firebase.firestore.FirebaseFirestore;

import java.util.ArrayList;
import java.util.List;
import java.util.Map;

public class SelectBrandActivity extends AppCompatActivity {

    private Spinner brandSpinner;
    private Button nextButton;
    private FirebaseFirestore db;
    private List<String> brandList;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_select_brand);

        brandSpinner = findViewById(R.id.brandSpinner);
        nextButton = findViewById(R.id.btnNext);
        db = FirebaseFirestore.getInstance();
        brandList = new ArrayList<>();

        loadBrands();

        nextButton.setOnClickListener(v -> {
            String selectedBrand = brandSpinner.getSelectedItem().toString();
            if (selectedBrand.equals("Выберите марку")) {
                Toast.makeText(this, "Пожалуйста, выберите марку", Toast.LENGTH_SHORT).show();
            } else {
                Intent intent = new Intent(SelectBrandActivity.this, SelectModelActivity.class);
                intent.putExtra("selectedBrand", selectedBrand);
                startActivity(intent);
            }
        });
    }

    private void loadBrands() {
        db.collection("dfd").document("models")
            .get()
            .addOnCompleteListener(task -> {
                if (task.isSuccessful()) {
                    DocumentSnapshot document = task.getResult();
                    if (document.exists()) {
                        Map<String, Object> data = document.getData();
                        if (data != null) {
                            brandList.add("Выберите марку");
                            for (Object value : data.keySet()) { // Используем keySet(), так как марки — это ключи
                                brandList.add(value.toString());
                            }
                            ArrayAdapter<String> adapter = new ArrayAdapter<>(this,
                                android.R.layout.simple_spinner_item, brandList);
                            adapter.setDropDownViewResource(android.R.layout.simple_spinner_dropdown_item);
                            brandSpinner.setAdapter(adapter);
                        }
                    } else {
                        Log.e("SelectBrandActivity", "Документ models не найден");
                        Toast.makeText(this, "Марки не найдены", Toast.LENGTH_SHORT).show();
                    }
                } else {
                    Log.e("SelectBrandActivity", "Ошибка загрузки: ", task.getException());
                    Toast.makeText(this, "Ошибка загрузки марок", Toast.LENGTH_SHORT).show();
                }
            });
    }
}

```

26) SelectModelActivity.java;

```
package com.example.drivee;
```

```

import android.content.Intent;
import android.os.Bundle;
import android.util.Log;
import android.view.View;
import android.widget.AdapterView;
import android.widget.Button;
import android.widget.Spinner;
import android.widget.Toast;

import androidx.appcompat.app.AppCompatActivity;

import com.google.firebase.firestore.DocumentSnapshot;
import com.google.firebase.firestore.FirebaseFirestore;

import java.util.ArrayList;
import java.util.List;
import java.util.Map;

public class SelectModelActivity extends AppCompatActivity {

    private Spinner modelSpinner;
    private Button nextButton;
    private FirebaseFirestore db;
    private List<String> modelList;
    private String selectedBrand;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_select_model);

        modelSpinner = findViewById(R.id.modelSpinner);
        nextButton = findViewById(R.id.btnNext);
        db = FirebaseFirestore.getInstance();
        modelList = new ArrayList<>();

        selectedBrand = getIntent().getStringExtra("selectedBrand");
        if (selectedBrand == null || selectedBrand.isEmpty()) {
            Toast.makeText(this, "Ошибка: марка не выбрана", Toast.LENGTH_SHORT).show();
            finish();
            return;
        }

        loadModels();

        nextButton.setOnClickListener(v -> {
            String selectedModel = modelSpinner.getSelectedItem().toString();
            if (selectedModel.equals("Выберите модель")) {
                Toast.makeText(this, "Пожалуйста, выберите модель", Toast.LENGTH_SHORT).show();
            } else {
                Intent intent = new Intent(SelectModelActivity.this, CreateListingActivity.class);
                intent.putExtra("selectedBrand", selectedBrand);
                intent.putExtra("selectedModel", selectedModel);
                startActivity(intent);
            }
        });
    }

    private void loadModels() {
        db.collection("dfd").document("models")
            .get()
            .addOnCompleteListener(task -> {
                if (task.isSuccessful()) {
                    DocumentSnapshot document = task.getResult();
                    if (document.exists()) {
                        Map<String, Object> data = document.getData();
                        if (data != null && data.containsKey(selectedBrand)) {
                            List<String> models = (List<String>) data.get(selectedBrand);
                            if (models != null && !models.isEmpty()) {
                                modelList.add("Выберите модель");
                                modelList.addAll(models);
                                ArrayAdapter<String> adapter = new ArrayAdapter<>(this,

```

```

        android.R.layout.simple_spinner_item, modelList);
        adapter.setDropDownViewResource(android.R.layout.simple_spinner_dropdown_item);
        modelSpinner.setAdapter(adapter);
    } else {
        Toast.makeText(this, "Модели для " + selectedBrand + " не найдены", Toast.LENGTH_SHORT).show();
    }
    } else {
        Log.e("SelectModelActivity", "Марка " + selectedBrand + " не найдена");
        Toast.makeText(this, "Марка не найдена", Toast.LENGTH_SHORT).show();
    }
    } else {
        Log.e("SelectModelActivity", "Документ models не найден");
        Toast.makeText(this, "Модели не найдены", Toast.LENGTH_SHORT).show();
    }
    } else {
        Log.e("SelectModelActivity", "Ошибка загрузки: ", task.getException());
        Toast.makeText(this, "Ошибка загрузки моделей", Toast.LENGTH_SHORT).show();
    }
    });
}
}

```

27) SplashActivity.java;

```

package com.example.drivee;

import android.content.Intent;
import android.os.Bundle;
import android.os.Handler;
import androidx.appcompat.app.AppCompatActivity;

public class SplashActivity extends AppCompatActivity {
    private static final int SPLASH_TIME_OUT = 3000;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_splash);

        new Handler().postDelayed(() -> {
            Intent intent = new Intent(SplashActivity.this, MainActivity.class);
            startActivity(intent);
            finish();
        }, SPLASH_TIME_OUT);
    }
}

```

28) User.java;

```

package com.example.drivee;

public class User {
    private String name;
    private String email;
    private String phone;

    public User() {
    }

    public User(String name, String email, String phone) {
        this.name = name;
        this.email = email;
        this.phone = phone;
    }

    public String getName() {
        return name;
    }
}

```

```

    public String getEmail() {
        return email;
    }

    public String getPhone() {
        return phone;
    }
}

```

29) UserCar.java;

```

package com.example.drivee;

public class UserCar {
    private String id;
    private String brand;
    private String model;
    private String photoUrl;
    private long price;
    private String status;

    public UserCar(String id, String brand, String model, String photoUrl, long price, String status) {
        this.id = id;
        this.brand = brand;
        this.model = model;
        this.photoUrl = photoUrl;
        this.price = price;
        this.status = status;
    }

    public String getId() {
        return id;
    }

    public String getBrand() {
        return brand;
    }

    public String getModel() {
        return model;
    }

    public String getPhotoUrl() {
        return photoUrl;
    }

    public long getPrice() {
        return price;
    }

    public String getStatus() {
        return status;
    }

    public void setStatus(String status) {
        this.status = status;
    }
}

```

30) UserProfileActivity.java;

```

package com.example.drivee;

import android.content.Intent;
import android.graphics.Bitmap;
import android.graphics.BitmapFactory;
import android.net.Uri;
import android.os.Bundle;
import android.util.Base64;
import android.util.Log;

```

```

import android.widget.Button;
import android.widget.ImageView;
import android.widget.TextView;
import android.widget.Toast;

import androidx.appcompat.app.AppCompatActivity;
import androidx.recyclerview.widget.LinearLayoutManager;
import androidx.recyclerview.widget.RecyclerView;

import com.google.firebase.auth.FirebaseAuth;
import com.google.firebase.firestore.FirebaseFirestore;
import com.google.firebase.firestore.QueryDocumentSnapshot;

import java.io.ByteArrayOutputStream;
import java.io.FileNotFoundException;
import java.io.InputStream;
import java.util.ArrayList;
import java.util.List;

public class UserProfileActivity extends AppCompatActivity {

    private static final int PICK_IMAGE_REQUEST = 1;

    private ImageView profileImage;
    private Button selectImageBtn;
    private TextView userName, userPhone, userEmail;
    private RecyclerView userCarsRecyclerView;
    private List<Car> userCars = new ArrayList<>();
    private CarAdapter carAdapter;

    private FirebaseFirestore db;
    private FirebaseAuth mAuth;

    private Uri imageUri;
    private String userId;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_user_profile);

        profileImage = findViewById(R.id.profileImage);
        selectImageBtn = findViewById(R.id.selectImageBtn);
        userName = findViewById(R.id.userName);
        userPhone = findViewById(R.id.userPhone);
        userEmail = findViewById(R.id.userEmail);
        userCarsRecyclerView = findViewById(R.id.userCarsRecyclerView);

        mAuth = FirebaseAuth.getInstance();
        db = FirebaseFirestore.getInstance();
        userId = mAuth.getCurrentUser().getUid();

        carAdapter = new CarAdapter(this, userCars, false, true);
        userCarsRecyclerView.setLayoutManager(new LinearLayoutManager(this));
        userCarsRecyclerView.setAdapter(carAdapter);

        selectImageBtn.setOnClickListener(v -> openFileChooser());
        Button logoutButton = findViewById(R.id.logoutButton);
        logoutButton.setOnClickListener(v -> {
            FirebaseAuth.getInstance().signOut();
            Intent intent = new Intent(UserProfileActivity.this, MainActivity.class);
            intent.setFlags(Intent.FLAG_ACTIVITY_NEW_TASK | Intent.FLAG_ACTIVITY_CLEAR_TASK); // очищаем back
            startActivity(intent);
        });

        loadUserProfile();
        loadUserCars();
    }

    private void loadUserProfile() {

```



```

db.collection("users").document(userId)
    .get()
    .addOnSuccessListener(documentSnapshot -> {
        if (documentSnapshot.exists()) {
            userName.setText(documentSnapshot.getString("name"));
            userPhone.setText(documentSnapshot.getString("phone"));
            userEmail.setText(documentSnapshot.getString("email"));

            String profileImageBase64 = documentSnapshot.getString("profile_image");
            if (profileImageBase64 != null && !profileImageBase64.isEmpty()) {
                Bitmap decodedImage = decodeBase64(profileImageBase64);
                profileImage.setImageBitmap(decodedImage);
            } else {
                profileImage.setImageResource(R.drawable.logo);
            }
        }
    })
    .addOnFailureListener(e -> {
        Toast.makeText(this, "Ошибка загрузки данных", Toast.LENGTH_SHORT).show();
    });
}

private void loadUserCars() {
    db.collection("cars")
        .get()
        .addOnSuccessListener(queryDocumentSnapshots -> {
            userCars.clear();
            for (QueryDocumentSnapshot document : queryDocumentSnapshots) {
                String ownerId = document.getString("ownerId");
                if (ownerId != null && ownerId.equals(userId)) {
                    String id = document.getId();
                    String brand = document.getString("brand");
                    String model = document.getString("model");

                    String photo = document.getString("photoone");
                    if (photo == null) photo = "";

                    long price = document.getLong("price") != null ? document.getLong("price") : 0;
                    String status = document.getString("status") != null ? document.getString("status") : "Неизвестно";

                    long mileage = document.getLong("mileage") != null ? document.getLong("mileage") : 0;

                    Car car = new Car(id, brand, model, photo, mileage, price);

                    try {
                        java.lang.reflect.Field field = car.getClass().getDeclaredField("status");
                        field.setAccessible(true);
                        field.set(car, status);
                    } catch (Exception e) {
                        e.printStackTrace();
                    }

                    userCars.add(car);
                }
            }
            carAdapter.notifyDataSetChanged();
        })
        .addOnFailureListener(e -> {
            Toast.makeText(this, "Ошибка при загрузке машин", Toast.LENGTH_SHORT).show();
        });
}

private void openFileChooser() {
    Intent intent = new Intent(Intent.ACTION_PICK);
    intent.setType("image/*");
    startActivityForResult(intent, PICK_IMAGE_REQUEST);
}

@Override

```

```

protected void onActivityResult(int requestCode, int resultCode, Intent data) {
    super.onActivityResult(requestCode, resultCode, data);

    if (requestCode == PICK_IMAGE_REQUEST && resultCode == RESULT_OK && data != null && data.getData() !=
null) {
        imageUri = data.getData();
        try {
            InputStream imageStream = getContentResolver().openInputStream(imageUri);
            Bitmap selectedImage = BitmapFactory.decodeStream(imageStream);
            profileImage.setImageBitmap(selectedImage);

            String imageBase64 = encodeImageToBase64(selectedImage);
            saveImageToFirestore(imageBase64);
        } catch (FileNotFoundException e) {
            e.printStackTrace();
            Toast.makeText(this, "Ошибка при загрузке изображения", Toast.LENGTH_SHORT).show();
        }
    }
}

private String encodeImageToBase64(Bitmap bitmap) {
    ByteArrayOutputStream byteArrayOutputStream = new ByteArrayOutputStream();
    bitmap.compress(Bitmap.CompressFormat.PNG, 100, byteArrayOutputStream);
    byte[] byteArray = byteArrayOutputStream.toByteArray();
    return Base64.encodeToString(byteArray, Base64.DEFAULT);
}

private Bitmap decodeBase64(String base64String) {
    byte[] decodedBytes = Base64.decode(base64String, Base64.DEFAULT);
    return BitmapFactory.decodeByteArray(decodedBytes, 0, decodedBytes.length);
}

private void saveImageToFirestore(String imageBase64) {
    db.collection("users").document(userId)
        .update("profile_image", imageBase64)
        .addOnSuccessListener(aVoid -> {
            Toast.makeText(this, "Изображение обновлено", Toast.LENGTH_SHORT).show();
        })
        .addOnFailureListener(e -> {
            Toast.makeText(this, "Ошибка при обновлении изображения", Toast.LENGTH_SHORT).show();
        });
}
}

```

31) circle.xml;

```

<?xml version="1.0" encoding="utf-8"?>
<shape xmlns:android="http://schemas.android.com/apk/res/android"
    android:shape="oval">
    <solid android:color="#DDDDDD" /> <!-- можно заменить на белый или прозрачный -->
</shape>

```

32) edittext_background.xml;

```

<shape xmlns:android="http://schemas.android.com/apk/res/android">
    <solid android:color="@android:color/white"/>
    <corners android:radius="8dp"/>
    <stroke
        android:width="1dp"
        android:color="#CCCCCC"/>
    <padding
        android:left="12dp"
        android:top="8dp"
        android:right="12dp"
        android:bottom="8dp"/>
</shape>

```

33) ic_heart_filled.xml;

```

<vector xmlns:android="http://schemas.android.com/apk/res/android"
    android:width="24dp"
    android:height="24dp"
    android:viewportWidth="24"
    android:viewportHeight="24">
    <path
        android:fillColor="#FF0000"
        android:pathData="M12,21.35l-1.45,-1.32C5.4,15.36 2,12.28 2,8.5C2,5.42 4.42,3 7.5,3C9.24,3 10.91,3.81
12,5.09C13.09,3.81 14.76,3 16.5,3C19.58,3 22,5.42 22,8.5C22,12.28 18.6,15.36 13.45,19.68L12,21.35z"/>
</vector>

```

34) ic_heart_outline.xml;

```

<vector xmlns:android="http://schemas.android.com/apk/res/android"
    android:width="24dp"
    android:height="24dp"
    android:viewportWidth="24"
    android:viewportHeight="24">
    <path
        android:fillColor="#808080"
        android:pathData="M12,21.35l-1.45,-1.32C5.4,15.36 2,12.28 2,8.5C2,5.42 4.42,3 7.5,3C9.24,3 10.91,3.81
12,5.09C13.09,3.81 14.76,3 16.5,3C19.58,3 22,5.42 22,8.5C22,12.28 18.6,15.36 13.45,19.68L12,21.35z"/>
</vector>

```

35) ic_launcher_background.xml;

```

<?xml version="1.0" encoding="utf-8"?>
<vector
    android:height="108dp"
    android:width="108dp"
    android:viewportHeight="108"
    android:viewportWidth="108"
    xmlns:android="http://schemas.android.com/apk/res/android">
    <path android:fillColor="#3DDC84"
        android:pathData="M0,0h108v108h-108z"/>
    <path android:fillColor="#00000000" android:pathData="M9,0L9,108"
        android:strokeColor="#33FFFFFF" android:strokeWidth="0.8"/>
    <path android:fillColor="#00000000" android:pathData="M19,0L19,108"
        android:strokeColor="#33FFFFFF" android:strokeWidth="0.8"/>
    <path android:fillColor="#00000000" android:pathData="M29,0L29,108"
        android:strokeColor="#33FFFFFF" android:strokeWidth="0.8"/>
    <path android:fillColor="#00000000" android:pathData="M39,0L39,108"
        android:strokeColor="#33FFFFFF" android:strokeWidth="0.8"/>
    <path android:fillColor="#00000000" android:pathData="M49,0L49,108"
        android:strokeColor="#33FFFFFF" android:strokeWidth="0.8"/>
    <path android:fillColor="#00000000" android:pathData="M59,0L59,108"
        android:strokeColor="#33FFFFFF" android:strokeWidth="0.8"/>
    <path android:fillColor="#00000000" android:pathData="M69,0L69,108"
        android:strokeColor="#33FFFFFF" android:strokeWidth="0.8"/>
    <path android:fillColor="#00000000" android:pathData="M79,0L79,108"
        android:strokeColor="#33FFFFFF" android:strokeWidth="0.8"/>
    <path android:fillColor="#00000000" android:pathData="M89,0L89,108"
        android:strokeColor="#33FFFFFF" android:strokeWidth="0.8"/>
    <path android:fillColor="#00000000" android:pathData="M99,0L99,108"
        android:strokeColor="#33FFFFFF" android:strokeWidth="0.8"/>
    <path android:fillColor="#00000000" android:pathData="M0,9L108,9"
        android:strokeColor="#33FFFFFF" android:strokeWidth="0.8"/>
    <path android:fillColor="#00000000" android:pathData="M0,19L108,19"
        android:strokeColor="#33FFFFFF" android:strokeWidth="0.8"/>
    <path android:fillColor="#00000000" android:pathData="M0,29L108,29"
        android:strokeColor="#33FFFFFF" android:strokeWidth="0.8"/>
    <path android:fillColor="#00000000" android:pathData="M0,39L108,39"
        android:strokeColor="#33FFFFFF" android:strokeWidth="0.8"/>
    <path android:fillColor="#00000000" android:pathData="M0,49L108,49"
        android:strokeColor="#33FFFFFF" android:strokeWidth="0.8"/>
    <path android:fillColor="#00000000" android:pathData="M0,59L108,59"
        android:strokeColor="#33FFFFFF" android:strokeWidth="0.8"/>
    <path android:fillColor="#00000000" android:pathData="M0,69L108,69"
        android:strokeColor="#33FFFFFF" android:strokeWidth="0.8"/>
    <path android:fillColor="#00000000" android:pathData="M0,79L108,79"

```

```

        android:strokeColor="#33FFFFFF" android:strokeWidth="0.8"/>
<path android:fillColor="#00000000" android:pathData="M0,89L108,89"
    android:strokeColor="#33FFFFFF" android:strokeWidth="0.8"/>
<path android:fillColor="#00000000" android:pathData="M0,99L108,99"
    android:strokeColor="#33FFFFFF" android:strokeWidth="0.8"/>
<path android:fillColor="#00000000" android:pathData="M19,29L89,29"
    android:strokeColor="#33FFFFFF" android:strokeWidth="0.8"/>
<path android:fillColor="#00000000" android:pathData="M19,39L89,39"
    android:strokeColor="#33FFFFFF" android:strokeWidth="0.8"/>
<path android:fillColor="#00000000" android:pathData="M19,49L89,49"
    android:strokeColor="#33FFFFFF" android:strokeWidth="0.8"/>
<path android:fillColor="#00000000" android:pathData="M19,59L89,59"
    android:strokeColor="#33FFFFFF" android:strokeWidth="0.8"/>
<path android:fillColor="#00000000" android:pathData="M19,69L89,69"
    android:strokeColor="#33FFFFFF" android:strokeWidth="0.8"/>
<path android:fillColor="#00000000" android:pathData="M19,79L89,79"
    android:strokeColor="#33FFFFFF" android:strokeWidth="0.8"/>
<path android:fillColor="#00000000" android:pathData="M29,19L29,89"
    android:strokeColor="#33FFFFFF" android:strokeWidth="0.8"/>
<path android:fillColor="#00000000" android:pathData="M39,19L39,89"
    android:strokeColor="#33FFFFFF" android:strokeWidth="0.8"/>
<path android:fillColor="#00000000" android:pathData="M49,19L49,89"
    android:strokeColor="#33FFFFFF" android:strokeWidth="0.8"/>
<path android:fillColor="#00000000" android:pathData="M59,19L59,89"
    android:strokeColor="#33FFFFFF" android:strokeWidth="0.8"/>
<path android:fillColor="#00000000" android:pathData="M69,19L69,89"
    android:strokeColor="#33FFFFFF" android:strokeWidth="0.8"/>
<path android:fillColor="#00000000" android:pathData="M79,19L79,89"
    android:strokeColor="#33FFFFFF" android:strokeWidth="0.8"/>
</vector>

```

36) ic_launcher_foreground.xml;

```

<vector xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:aapt="http://schemas.android.com/aapt"
    android:width="108dp"
    android:height="108dp"
    android:viewportWidth="108"
    android:viewportHeight="108">
    <path android:pathData="M31.63,92.82c0,0 6.4,-11 12.1,-13.1c7.2,-2.6 26,-1.4 26,-1.4l38.1,38.1L107,108.928l-32,-
    1L31.63,92.82z">
        <aapt:attr name="android:fillColor">
            <gradient
                android:endX="85.84757"
                android:endY="92.4963"
                android:startX="42.9492"
                android:startY="49.59793"
                android:type="linear">
                <item
                    android:color="#44000000"
                    android:offset="0.0" />
                <item
                    android:color="#00000000"
                    android:offset="1.0" />
            </gradient>
        </aapt:attr>
    </path>
    <path
        android:fillColor="#FFFFFF"
        android:fillType="nonZero"
        android:pathData="M65.3,45.828l3.8,-6.6c0.2,-0.4 0.1,-0.9 -0.3,-1.1c-0.4,-0.2 -0.9,-0.1 -1.1,0.3l-3.9,6.7c-6.3,-2.8 -13.4,-2.8 -
        19.7,0l-3.9,-6.7c-0.2,-0.4 -0.7,-0.5 -1.1,-0.3C38.8,38.328 38.7,38.828 38.9,39.228l3.8,6.6C36.2,49.428 31.7,56.028
        31.63,92.828h46C76.3,56.028 71.8,49.428 65.3,45.828z"
        android:strokeWidth="1"
        android:strokeColor="#00000000" />
</vector>

```

37) spinner_background.xml;

```

<shape xmlns:android="http://schemas.android.com/apk/res/android"
    android:shape="rectangle">
    <solid android:color="@android:color/white"/>
    <corners android:radius="12dp"/>
    <stroke android:width="1dp" android:color="#DDDDDD"/>
</shape>

```

38) splash_background.xml;

```

<?xml version="1.0" encoding="utf-8"?>
<layer-list xmlns:android="http://schemas.android.com/apk/res/android">
    <item android:drawable="@color/white" />
</layer-list>

```

39) activity_admin.xml;

```

<?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"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".AdminActivity">

    <TextView
        android:id="@+id/adminTitleText"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Администрирование"
        android:textSize="22sp"
        android:textStyle="bold"
        android:textColor="#000000"
        android:layout_marginTop="16dp"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        android:gravity="center" />

    <androidx.recyclerview.widget.RecyclerView
        android:id="@+id/recyclerView"
        android:layout_width="0dp"
        android:layout_height="0dp"
        android:layout_marginTop="12dp"
        app:layout_constraintTop_toBottomOf="@+id/adminTitleText"
        app:layout_constraintBottom_toTopOf="@+id/bottomNavigationView"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintEnd_toEndOf="parent" />

    <com.google.android.material.bottomnavigation.BottomNavigationView
        android:id="@+id/bottomNavigationView"
        android:layout_width="0dp"
        android:layout_height="wrap_content"
        android:background="?android:attr/windowBackground"
        app:menu="@menu/bottom_nav_menu"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintEnd_toEndOf="parent" />

</androidx.constraintlayout.widget.ConstraintLayout>

```

40) activity_admin_bortjournal.xml;

```

<?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"
android:background="#F5F5F5">

<TextView
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:text="Модерация записей"
    android:textSize="20sp"
    android:textStyle="bold"
    android:textColor="#000"
    android:gravity="center"
    android:paddingBottom="12dp" />

<androidx.recyclerview.widget.RecyclerView
    android:id="@+id/adminRecyclerView"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:clipToPadding="false"
    android:paddingBottom="16dp" />

</LinearLayout>

```

41) activity_all.xml;

```

<LinearLayout 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"
    android:orientation="vertical"
    android:background="#F5F5F5">

    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="50dp"
        android:background="#FFFFFF"
        android:orientation="horizontal"
        android:gravity="center_vertical"
        android:paddingStart="16dp"
        android:paddingEnd="16dp"
        android:elevation="2dp">

        <TextView
            android:id="@+id/adsCountTextView"
            android:layout_width="0dp"
            android:layout_height="wrap_content"
            android:layout_weight="1"
            android:text="0 объявлений"
            android:textSize="18sp"
            android:textStyle="bold"
            android:gravity="center"
            android:textColor="#000000" />

        <ImageButton
            android:layout_marginTop="4dp"
            android:id="@+id/filterButton"
            android:layout_width="40dp"
            android:layout_height="40dp"
            android:background="?attr/selectableItemBackgroundBorderless"
            android:contentDescription="Фильтр"
            android:src="@drawable/sor"
            android:scaleType="fitCenter"
            android:padding="8dp" />

    </LinearLayout>

    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="43dp"
        android:gravity="center_vertical"
        android:orientation="horizontal"
        android:padding="2dp">

```

```

<Spinner
    android:id="@+id/brandSpinner"
    android:layout_width="0dp"
    android:layout_height="wrap_content"
    android:layout_weight="1" />

<View
    android:layout_width="12dp"
    android:layout_height="wrap_content" />

<Spinner
    android:id="@+id/modelSpinner"
    android:layout_width="0dp"
    android:layout_height="wrap_content"
    android:layout_weight="1" />
</LinearLayout>

<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:orientation="horizontal"
    android:gravity="center"
    android:paddingHorizontal="16dp"
    android:layout_marginBottom="8dp">

    <Button
        android:id="@+id/resetFiltersButton"
        android:layout_width="0dp"
        android:layout_height="wrap_content"
        android:layout_weight="1"
        android:text="Сбросить"
        android:backgroundTint="@color/red"
        android:textColor="@android:color/white"
        android:layout_marginEnd="8dp"/>

    <Button
        android:id="@+id/paramsButton"
        android:layout_width="0dp"
        android:layout_height="wrap_content"
        android:layout_weight="1"
        android:text="Параметры"
        android:backgroundTint="@color/red"
        android:textColor="@android:color/white"/>
</LinearLayout>

<androidx.recyclerview.widget.RecyclerView
    android:id="@+id/recyclerView"
    android:layout_width="match_parent"
    android:layout_height="0dp"
    android:layout_weight="1"
    android:padding="16dp" />

<com.google.android.material.bottomnavigation.BottomNavigationView
    android:id="@+id/bottomNavigation"
    android:layout_width="match_parent"
    android:layout_height="90dp"
    android:background="@color/white"
    app:menu="@menu/bottom_navigation_menu" />
</LinearLayout>

```

42) activity_center.xml;

```

<?xml version="1.0" encoding="utf-8"?>
<android.widget.ScrollView xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    android:fillViewport="true">

    <LinearLayout
        android:layout_width="match_parent"

```

```

android:layout_height="wrap_content"
android:orientation="vertical"
android:padding="16dp"
android:background="#F5F5F5">

<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:orientation="horizontal"
    android:layout_marginTop="50dp"
    android:gravity="left">

    <TextView
        android:id="@+id/brandTextView"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:textSize="25sp"
        android:textColor="#000"/>

    <TextView
        android:id="@+id/modelTextView"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:textSize="25sp"
        android:layout_marginStart="8dp"
        android:textColor="#000"/>

    <TextView
        android:id="@+id/editVolume"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:textSize="25sp"
        android:layout_marginStart="8dp"
        android:textColor="#000"/>

    <TextView
        android:id="@+id/yearTextView"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:textSize="25sp"
        android:layout_marginStart="8dp"
        android:textColor="#000"/>
</LinearLayout>

<TextView
    android:id="@+id/priceTextView"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:textSize="30sp"
    android:textStyle="bold"
    android:layout_marginTop="4dp"/>

<androidx.viewpager2.widget.ViewPager2
    android:id="@+id/carImagePager"
    android:layout_width="match_parent"
    android:layout_height="250dp"
    android:layout_marginTop="12dp"/>

<TextView
    android:id="@+id/dataPublicTextView"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:textSize="12sp"
    android:textColor="#777"
    android:layout_marginTop="4dp"
    android:layout_gravity="end"/>

<TextView
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:text="Характеристики"
    android:textSize="21sp"

```



```

        android:textStyle="bold"
        android:textColor="#333"
        android:layout_marginTop="12dp"/>

<TextView android:id="@+id/bodyTextView" style="@style/CarSpecItem"/>
<TextView android:id="@+id/colorTextView" style="@style/CarSpecItem"/>
<TextView android:id="@+id/driveTextView" style="@style/CarSpecItem"/>
<TextView android:id="@+id/fuelTextView" style="@style/CarSpecItem"/>
<TextView android:id="@+id/horsepowerTextView" style="@style/CarSpecItem"/>
<TextView android:id="@+id/mileageTextView" style="@style/CarSpecItem"/>
<TextView android:id="@+id/ownersTextView" style="@style/CarSpecItem"/>
<TextView android:id="@+id/transmissionTextView" style="@style/CarSpecItem"/>
<TextView android:id="@+id/volumeTextView" style="@style/CarSpecItem"/>
<TextView android:id="@+id/vinTextView" style="@style/CarSpecItem"/>

<TextView
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:text="Описание"
    android:textSize="21sp"
    android:textStyle="bold"
    android:textColor="#333"
    android:layout_marginTop="12dp"/>

<TextView
    android:id="@+id/descriptionTextView"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:textSize="14sp"
    android:textColor="#555"
    android:layout_marginTop="4dp"/>
<LinearLayout
    android:id="@+id/userInfoBlock"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:orientation="horizontal"
    android:layout_marginTop="20dp"
    android:padding="12dp"
    android:background="@android:color/white"
    android:gravity="center_vertical"
    android:elevation="2dp">

    <com.google.android.material.imageview.ShapeableImageView
        android:id="@+id/userAvatar"
        android:layout_width="64dp"
        android:layout_height="64dp"
        android:layout_marginEnd="16dp"
        android:scaleType="centerCrop"
        android:src="@drawable/user_prof_1"
        app:shapeAppearanceOverlay="@style/CircleImage" />

    <LinearLayout
        android:layout_width="0dp"
        android:layout_height="wrap_content"
        android:layout_weight="1"
        android:orientation="vertical">

        <TextView
            android:id="@+id/userName"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:textStyle="bold"
            android:textSize="18sp"
            android:textColor="#000" />

        <TextView
            android:id="@+id/userPhone"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:textSize="16sp"
            android:textColor="#555" />
    </LinearLayout>

```

```

        </LinearLayout>

    </LinearLayout>
</android.widget.ScrollView>

```

43) activity_create_listing.xml;

```

<?xml version="1.0" encoding="utf-8"?>
<ScrollView xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:fillViewport="true"
    android:background="#F5F5F5">

    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:orientation="vertical"
        android:padding="20dp">

        <HorizontalScrollView
            android:layout_width="match_parent"
            android:layout_height="200dp"
            android:layout_marginBottom="10dp">

            <LinearLayout
                android:orientation="horizontal"
                android:layout_width="wrap_content"
                android:layout_height="wrap_content">

                <LinearLayout
                    android:orientation="vertical"
                    android:layout_width="wrap_content"
                    android:layout_height="wrap_content"
                    android:gravity="center">

                    <ImageView
                        android:id="@+id/imagePreview1"
                        android:layout_width="200dp"
                        android:layout_height="200dp"
                        android:scaleType="centerCrop"
                        android:src="@drawable/pusto"
                        android:background="@android:color/darker_gray"
                        android:layout_marginEnd="10dp"/>

                    <Button
                        android:id="@+id/btnRemovePhoto1"
                        android:layout_width="wrap_content"
                        android:layout_height="wrap_content"
                        android:text="Сбросить"
                        android:layout_marginTop="5dp"
                        android:backgroundTint="@color/red"
                        android:textColor="@android:color/white"/>

                </LinearLayout>

            <LinearLayout
                android:orientation="vertical"
                android:layout_width="wrap_content"
                android:layout_height="wrap_content"
                android:gravity="center">

                <ImageView
                    android:id="@+id/imagePreview2"
                    android:layout_width="200dp"
                    android:layout_height="200dp"
                    android:scaleType="centerCrop"
                    android:src="@drawable/pusto"
                    android:background="@android:color/darker_gray"
                    android:layout_marginEnd="10dp"/>

                <Button

```

```

        android:id="@+id/btnRemovePhoto2"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Сбросить"
        android:layout_marginTop="5dp"
        android:backgroundTint="@color/red"
        android:textColor="@android:color/white"/>
    </LinearLayout>

    <LinearLayout
        android:orientation="vertical"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:gravity="center">

        <ImageView
            android:id="@+id/imagePreview3"
            android:layout_width="200dp"
            android:layout_height="200dp"
            android:scaleType="centerCrop"
            android:src="@drawable/pusto"
            android:background="@android:color/darker_gray"
            android:layout_marginEnd="10dp"/>

        <Button
            android:id="@+id/btnRemovePhoto3"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="Сбросить"
            android:layout_marginTop="5dp"
            android:backgroundTint="@color/red"
            android:textColor="@android:color/white"/>
    </LinearLayout>

    <LinearLayout
        android:orientation="vertical"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:gravity="center">

        <ImageView
            android:id="@+id/imagePreview4"
            android:layout_width="200dp"
            android:layout_height="200dp"
            android:scaleType="centerCrop"
            android:src="@drawable/pusto"
            android:background="@android:color/darker_gray"
            android:layout_marginEnd="10dp"/>

        <Button
            android:id="@+id/btnRemovePhoto4"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="Сбросить"
            android:layout_marginTop="5dp"
            android:backgroundTint="@color/red"
            android:textColor="@android:color/white"/>
    </LinearLayout>

    <LinearLayout
        android:orientation="vertical"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:gravity="center">

        <ImageView
            android:id="@+id/imagePreview5"
            android:layout_width="200dp"
            android:layout_height="200dp"
            android:scaleType="centerCrop"
            android:src="@drawable/pusto"
            android:background="@android:color/darker_gray"
            android:layout_marginEnd="10dp"/>

```

```

        </LinearLayout>

    </LinearLayout>
</HorizontalScrollView>

<Button
    android:id="@+id/btnUploadPhoto"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:text="Загрузить фото"
    android:backgroundTint="@color/black"
    android:textColor="@android:color/white"/>
<Button
    android:id="@+id/btnRemovePhoto5"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Сбросить"
    android:layout_marginTop="5dp"
    android:backgroundTint="@color/red"
    android:textColor="@android:color/white"/>
<EditText
    android:id="@+id/editVin"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:hint="VIN"
    android:inputType="text"
    android:layout_marginTop="10dp"/>

<EditText
    android:id="@+id/editBrand"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:hint="Марка"
    android:inputType="text"
    android:layout_marginTop="10dp"/>

<EditText
    android:id="@+id/editModel"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:hint="Модель"
    android:inputType="text"
    android:layout_marginTop="10dp"/>

<EditText
    android:id="@+id/editYear"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:hint="Год выпуска"
    android:inputType="number"
    android:layout_marginTop="10dp"/>

<Spinner
    android:id="@+id/spinnerFuel"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_marginTop="10dp" />

<EditText
    android:id="@+id/editColor"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:hint="Цвет"
    android:inputType="text"
    android:layout_marginTop="10dp"/>

<Spinner
    android:id="@+id/spinnerBody"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"

```

```

        android:layout_marginTop="10dp"/>

<Spinner
    android:id="@+id/spinnerDrive"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_marginTop="10dp"/>

<Spinner
    android:id="@+id/spinnerTransmission"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_marginTop="10dp"/>

<EditText
    android:id="@+id/editVolume"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:hint="Объем двигателя (л)"
    android:inputType="numberDecimal"
    android:layout_marginTop="10dp"/>

<EditText
    android:id="@+id/editHorsepower"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:hint="Мощность (л.с.)"
    android:inputType="number"
    android:layout_marginTop="10dp"/>

<EditText
    android:id="@+id/editMileage"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:hint="Пробег (км)"
    android:inputType="number"
    android:layout_marginTop="10dp"/>

<EditText
    android:id="@+id/editOwners"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:hint="Количество владельцев"
    android:inputType="number"
    android:layout_marginTop="10dp"/>

<EditText
    android:id="@+id/editPrice"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:hint="Цена (₽)"
    android:inputType="number"
    android:layout_marginTop="10dp"/>

<EditText
    android:id="@+id/editDescription"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:hint="Описание"
    android:inputType="textMultiLine"
    android:layout_marginTop="10dp"/>

<EditText
    android:id="@+id/editCity"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:hint="Город"
    android:inputType="text"
    android:layout_marginTop="10dp"/>

<Button
    android:id="@+id/btnCreateListing"
    android:layout_width="match_parent"

```

```

        android:layout_height="wrap_content"
        android:text="Создать объявление"
        android:layout_marginTop="20dp"
        android:backgroundTint="@color/red"
        android:textColor="@android:color/white"/>

    </LinearLayout>
</ScrollView>

```

44) activity_favorites.xml;

```

<?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"
    android:background="#F5F5F5">

    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:orientation="horizontal"
        android:gravity="center_vertical">

        <TextView
            android:id="@+id/backButton"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="←"
            android:textSize="24sp"
            android:textColor="@android:color/black"
            android:paddingEnd="12dp" />

        <TextView
            android:id="@+id/titleText"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="Избранное"
            android:textStyle="bold"
            android:textSize="20sp"
            android:textColor="#000000" />
    </LinearLayout>

    <androidx.recyclerview.widget.RecyclerView
        android:id="@+id/recyclerViewFavorites"
        android:layout_width="match_parent"
        android:layout_height="0dp"
        android:layout_weight="1"
        android:layout_marginTop="16dp" />

    <ProgressBar
        android:id="@+id/progressBar"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_gravity="center"
        android:visibility="gone" />

</LinearLayout>

```

45) activity_filter.xml;

```

<?xml version="1.0" encoding="utf-8"?>
<ScrollView xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:fillViewport="true"
    android:background="#F5F5F5">

    <LinearLayout

```

```

        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:padding="20dp"
        android:orientation="vertical">
<TextView
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:text="Параметры"
    android:textSize="24sp"
    android:textStyle="bold"
    android:textColor="#000000"
    android:gravity="center"
    android:layout_marginBottom="20dp"/>

<LinearLayout android:orientation="horizontal"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_marginBottom="12dp">
    <EditText
        android:id="@+id/yearFrom"
        android:layout_width="0dp"
        android:layout_weight="1"
        android:layout_height="48dp"
        android:hint="Год от"
        android:inputType="number"
        android:background="@drawable/edittext_background"
        android:padding="12dp"/>
    <View android:layout_width="12dp" android:layout_height="match_parent"/>
    <EditText
        android:id="@+id/yearTo"
        android:layout_width="0dp"
        android:layout_weight="1"
        android:layout_height="48dp"
        android:hint="Год до"
        android:inputType="number"
        android:background="@drawable/edittext_background"
        android:padding="12dp"/>
</LinearLayout>

<Spinner
    android:id="@+id/colorSpinner"
    android:layout_width="match_parent"
    android:layout_height="48dp"
    android:layout_marginBottom="12dp"
    android:background="@drawable/spinner_background"
    android:paddingStart="12dp"
    android:paddingEnd="12dp" />

<Spinner
    android:id="@+id/bodySpinner"
    android:layout_width="match_parent"
    android:layout_height="48dp"
    android:layout_marginBottom="12dp"
    android:background="@drawable/spinner_background"
    android:paddingStart="12dp"
    android:paddingEnd="12dp" />

<Spinner
    android:id="@+id/driveSpinner"
    android:layout_width="match_parent"
    android:layout_height="48dp"
    android:layout_marginBottom="12dp"
    android:background="@drawable/spinner_background"
    android:paddingStart="12dp"
    android:paddingEnd="12dp" />

<Spinner
    android:id="@+id/fuelSpinner"
    android:layout_width="match_parent"
    android:layout_height="48dp"
    android:layout_marginBottom="12dp"
    android:background="@drawable/spinner_background"
    android:paddingStart="12dp"

```

```

        android:paddingEnd="12dp" />

<Spinner
    android:id="@+id/transmissionSpinner"
    android:layout_width="match_parent"
    android:layout_height="48dp"
    android:layout_marginBottom="12dp"
    android:background="@drawable/spinner_background"
    android:paddingStart="12dp"
    android:paddingEnd="12dp" />

<LinearLayout android:orientation="horizontal"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_marginBottom="12dp">
    <EditText
        android:id="@+id/volumeFrom"
        android:hint="Объём от"
        android:inputType="numberDecimal"
        android:layout_weight="1"
        android:layout_width="0dp"
        android:layout_height="48dp"
        android:background="@drawable/edittext_background"
        android:padding="12dp"/>
    <View android:layout_width="12dp" android:layout_height="match_parent"/>
    <EditText
        android:id="@+id/volumeTo"
        android:hint="Объём до"
        android:inputType="numberDecimal"
        android:layout_weight="1"
        android:layout_width="0dp"
        android:layout_height="48dp"
        android:background="@drawable/edittext_background"
        android:padding="12dp"/>
</LinearLayout>

<LinearLayout android:orientation="horizontal"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_marginBottom="12dp">
    <EditText
        android:id="@+id/powerFrom"
        android:hint="Мощность от"
        android:inputType="number"
        android:layout_weight="1"
        android:layout_width="0dp"
        android:layout_height="48dp"
        android:background="@drawable/edittext_background"
        android:padding="12dp"/>
    <View android:layout_width="12dp" android:layout_height="match_parent"/>
    <EditText
        android:id="@+id/powerTo"
        android:hint="до"
        android:inputType="number"
        android:layout_weight="1"
        android:layout_width="0dp"
        android:layout_height="48dp"
        android:background="@drawable/edittext_background"
        android:padding="12dp"/>
</LinearLayout>

<EditText
    android:id="@+id/ownersTo"
    android:layout_width="match_parent"
    android:layout_height="48dp"
    android:hint="Владельцев до"
    android:inputType="number"
    android:background="@drawable/edittext_background"
    android:padding="12dp"
    android:layout_marginBottom="12dp"/>

<LinearLayout android:orientation="horizontal"
    android:layout_width="match_parent"

```



```

        android:layout_height="wrap_content"
        android:layout_marginBottom="12dp">
        <EditText
            android:id="@+id/priceFrom"
            android:hint="Цена от"
            android:inputType="number"
            android:layout_weight="1"
            android:layout_width="0dp"
            android:layout_height="48dp"
            android:background="@drawable/edittext_background"
            android:padding="12dp"/>
        <View android:layout_width="12dp" android:layout_height="match_parent"/>
        <EditText
            android:id="@+id/priceTo"
            android:hint="до"
            android:inputType="number"
            android:layout_weight="1"
            android:layout_width="0dp"
            android:layout_height="48dp"
            android:background="@drawable/edittext_background"
            android:padding="12dp"/>
    </LinearLayout>

    <EditText
        android:id="@+id/cityInput"
        android:layout_width="match_parent"
        android:layout_height="48dp"
        android:hint="Город"
        android:inputType="text"
        android:background="@drawable/edittext_background"
        android:padding="12dp"
        android:layout_marginBottom="12dp"/>

    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:orientation="horizontal"
        android:gravity="center">

        <Button
            android:id="@+id/applyButton"
            android:layout_width="0dp"
            android:layout_weight="1"
            android:layout_height="wrap_content"
            android:text="Применить"
            android:backgroundTint="@color/red"
            android:textColor="@android:color/white"/>

        <View android:layout_width="12dp" android:layout_height="match_parent"/>

        <Button
            android:id="@+id/cancelButton"
            android:layout_width="0dp"
            android:layout_weight="1"
            android:layout_height="wrap_content"
            android:text="Отмена"
            android:backgroundTint="@color/red"
            android:textColor="@android:color/white"/>
    </LinearLayout>
</LinearLayout>
</ScrollView>

```

46) activity_main.xml;

```

<?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:gravity="center"

```

```

        android:padding="20dp"
        android:background="@color/white">

<ImageView
    android:layout_width="300dp"
    android:layout_height="100dp"
    android:contentDescription="Логотип компании"
    android:layout_marginBottom="60dp"
    android:src="@drawable/logo" />

<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Вход"
    android:textSize="24sp"
    android:textStyle="bold"
    android:layout_marginTop="20dp"/>

<EditText
    android:id="@+id/email"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:hint="Email"
    android:inputType="textEmailAddress"
    android:layout_marginTop="10dp"/>

<EditText
    android:id="@+id/passwordtxt"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:hint="Пароль"
    android:inputType="textPassword"
    android:layout_marginTop="10dp"/>

<Button
    android:id="@+id/btnVhod"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:text="Войти"
    android:height="50dp"
    android:layout_marginTop="50dp"
    android:backgroundTint="@color/red"/>

<Button
    android:id="@+id/btnReg"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:text="Зарегистрироваться"
    android:height="50dp"
    android:layout_marginTop="10dp"
    android:layout_marginBottom="30dp"
    android:backgroundTint="@color/red"/>

<Button
    android:id="@+id/btnResetPassword"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:text="Сбросить пароль"
    android:height="50dp"
    android:textColor="@color/black"
    android:backgroundTint="@color/white"/>
</LinearLayout>

```

47) activity_manage_models.xml;

```

<?xml version="1.0" encoding="utf-8"?>
<ScrollView xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:fillViewport="true"
    android:padding="24dp">

```

```

<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical"
    android:gravity="center_horizontal|center_vertical">

    <TextView
        android:id="@+id/titleText"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Марки и модели"
        android:textSize="24sp"
        android:textStyle="bold"
        android:layout_marginBottom="32dp" />

    <EditText
        android:id="@+id/brandInput"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:hint="Новая марка"
        android:padding="12dp"
        android:background="@drawable/edittext_background" />

    <Button
        android:id="@+id/addBrandBtn"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_marginTop="12dp"
        android:text="Добавить марку"
        android:backgroundTint="@color/red"
        android:textColor="@android:color/white" />

    <View
        android:layout_width="match_parent"
        android:layout_height="24dp" />

    <Spinner
        android:id="@+id/brandSpinner"
        android:layout_width="match_parent"
        android:layout_height="wrap_content" />

    <EditText
        android:id="@+id/modelInput"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_marginTop="16dp"
        android:hint="Новая модель"
        android:padding="12dp"
        android:background="@drawable/edittext_background" />

    <Button
        android:id="@+id/addModelBtn"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_marginTop="12dp"
        android:text="Добавить модель"
        android:backgroundTint="@color/red"
        android:textColor="@android:color/white" />

</LinearLayout>
</ScrollView>

```

48) activity_reg.xml;

```

<?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:gravity="center"
android:padding="20dp"
android:background="@color/white">

<ImageView
    android:layout_width="300dp"
    android:layout_height="100dp"
    android:contentDescription="Логотип компании"
    android:layout_marginBottom="20dp"
    android:src="@drawable/logo" />

<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Регистрация"
    android:textSize="24sp"
    android:textStyle="bold"
    android:layout_marginTop="0dp"/>
<EditText
    android:id="@+id/nameEditText"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:hint="Имя" />

<EditText
    android:id="@+id/dobEditText"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:hint="Дата рождения (дд/мм/гггг)"
    android:inputType="date"
    android:layout_marginTop="10dp"/>

<EditText
    android:id="@+id/phoneEditText"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:hint="Номер телефона"
    android:inputType="phone" />

<EditText
    android:id="@+id/email"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:hint="Email"
    android:inputType="textEmailAddress"
    android:layout_marginTop="10dp"/>

<EditText
    android:id="@+id/passwordtxt"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:hint="Пароль"
    android:inputType="textPassword"
    android:layout_marginTop="10dp"/>

<EditText
    android:id="@+id/confirmPassword"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:hint="Подтвердите пароль"
    android:inputType="textPassword"
    android:layout_marginTop="10dp"/>

<Button
    android:id="@+id/btnRegister"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:text="Зарегистрироваться"
    android:height="50dp"
    android:layout_marginTop="40dp"
    android:backgroundTint="@color/red"/>

```

```

<Button
    android:id="@+id/btnBackToLogin"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:text="Уже есть аккаунт? Войти"
    android:height="50dp"
    android:layout_marginTop="10dp"
    android:layout_marginBottom="30dp"
    android:backgroundTint="@color/red"/>

</LinearLayout>

49) activity_reset_password.xml;

<?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:gravity="center"
    android:padding="20dp"
    android:background="@color/white">

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Сброс пароля"
        android:textSize="24sp"
        android:textStyle="bold"
        android:layout_marginTop="20dp"
        android:layout_marginBottom="40dp"/>

    <EditText
        android:id="@+id/emailEditText"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:hint="Введите ваш Email"
        android:inputType="textEmailAddress"
        android:padding="10dp"
        android:layout_marginBottom="20dp"/>

    <Button
        android:id="@+id/btnResetPassword"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="Сбросить пароль"
        android:textColor="@color/white"
        android:backgroundTint="@color/red"
        android:height="50dp"
        android:layout_marginTop="50dp"/>

    <Button
        android:id="@+id/btnBackToLogin"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="Помните пароль? Войти"
        android:height="50dp"
        android:layout_marginTop="10dp"
        android:backgroundTint="@color/red"/>

</LinearLayout>

50) activity_select_brand.xml;

<?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:gravity="center"

```

```

        android:padding="20dp"
        android:background="@color/white">

<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Выберите марку автомобиля"
    android:textSize="24sp"
    android:textStyle="bold"
    android:textColor="@android:color/black"
    android:layout_marginBottom="20dp"/>

<Spinner
    android:id="@+id/brandSpinner"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_marginBottom="20dp"/>

<Button
    android:id="@+id/btnNext"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:text="Далее"
    android:backgroundTint="@color/red"
    android:textColor="@android:color/white"
    android:height="50dp"/>
</LinearLayout>

```

51) activity_select_model.xml;

```

<?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:gravity="center"
    android:padding="20dp"
    android:background="@color/white">

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Выберите модель автомобиля"
        android:textSize="24sp"
        android:textStyle="bold"
        android:textColor="@android:color/black"
        android:layout_marginBottom="20dp"/>

    <Spinner
        android:id="@+id/modelSpinner"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_marginBottom="20dp"/>

    <Button
        android:id="@+id/btnNext"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="Далее"
        android:backgroundTint="@color/red"
        android:textColor="@android:color/white"
        android:height="50dp"/>
</LinearLayout>

```

52) activity_splash.xml;

```

<?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:gravity="center"
        android:orientation="vertical"
        android:background="@color/white">

        <ImageView
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:contentDescription="App Logo"
            android:src="@drawable/logo" />
    </LinearLayout>

```

53) activity_user_profile.xml;

```

<?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:gravity="center"
    android:padding="20dp"
    android:background="@color/white">

    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:orientation="horizontal"
        android:gravity="center_vertical"
        android:layout_marginTop="30dp"
        android:layout_marginBottom="20dp">

        <ImageView
            android:id="@+id/profileImage"
            android:layout_width="100dp"
            android:layout_height="100dp"
            android:layout_marginEnd="16dp"
            android:scaleType="centerCrop"
            android:src="@drawable/user_prof_1"
            android:background="@drawable/circle"
            android:clipToOutline="true" />

        <LinearLayout
            android:layout_width="0dp"
            android:layout_height="wrap_content"
            android:orientation="vertical"

            android:layout_weight="1">

            <TextView
                android:id="@+id/userName"
                android:layout_width="wrap_content"
                android:layout_height="wrap_content"
                android:text="Имя"
                android:textSize="20sp"
                android:textStyle="bold"
                android:layout_marginBottom="8dp" />

            <TextView
                android:id="@+id/userPhone"
                android:layout_width="wrap_content"
                android:layout_height="wrap_content"
                android:text="Телефон"
                android:textSize="18sp"
                android:layout_marginBottom="8dp" />

            <TextView
                android:id="@+id/userEmail"
                android:layout_width="wrap_content"
                android:layout_height="wrap_content"
                android:text="Email"

```

```

        android:textSize="18sp"
        android:layout_marginBottom="20dp" />
    </LinearLayout>
</LinearLayout>

```

```

<!-- Раздел для кнопок -->

```

```

<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:orientation="vertical"
    android:gravity="center"
    android:layout_marginBottom="20dp">

    <Button
        android:id="@+id/selectImageBtn"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_marginBottom="1dp"
        android:backgroundTint="@color/red"
        android:text="Выбрать фото"
        android:textSize="14sp"
        android:minHeight="45dp" />

    <Button
        android:id="@+id/logoutButton"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_marginTop="10dp"
        android:backgroundTint="@color/black"
        android:text="Выйти из аккаунта"
        android:textColor="@color/white"
        android:textSize="14sp"
        android:minHeight="45dp" />
</LinearLayout>

```

```

<TextView
    android:id="@+id/userCarsTitle"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Мои машины"
    android:textSize="18sp"
    android:textStyle="bold"
    android:layout_marginTop="1dp"
    android:layout_marginBottom="10dp"/>

<androidx.recyclerview.widget.RecyclerView
    android:id="@+id/userCarsRecyclerView"
    android:layout_width="match_parent"
    android:layout_height="0dp"
    android:layout_marginTop="10dp"
    android:layout_marginBottom="20dp"
    android:layout_weight="1" />

```

```

</LinearLayout>

```

54) bortjournal_activity.xml;

```

<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:orientation="vertical" android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:padding="16dp"
    android:background="#F5F5F5">
    <TextView
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="Бортовой журнал"
        android:textSize="24sp"
        android:textStyle="bold"
        android:textColor="#000000"
        android:gravity="center"
        android:layout_marginBottom="20dp"/>

```



```

<Button
    android:id="@+id/createPostButton"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:text="Создать запись"
    android:backgroundTint="@color/red"
    android:textColor="@android:color/white"
    android:layout_marginBottom="12dp"/>

<androidx.recyclerview.widget.RecyclerView
    android:id="@+id/postsRecyclerView"
    android:layout_width="match_parent"
    android:layout_height="match_parent" />
</LinearLayout>

```

55) bortjournal_detail_activity.xml;

```

<ScrollView xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent" android:layout_height="match_parent"
    android:padding="16dp">

    <LinearLayout
        android:orientation="vertical"
        android:layout_width="match_parent"
        android:layout_height="wrap_content">

        <TextView
            android:id="@+id/detailBrandModel"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="Toyota Camry"
            android:textSize="16sp"
            android:textStyle="bold"
            android:textColor="#555555" />

        <TextView
            android:id="@+id/detailTitle"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="Зароловок"
            android:textSize="20sp"
            android:textStyle="bold"
            android:textColor="#000000"
            android:layout_marginTop="8dp" />

        <TextView
            android:id="@+id/detailContent"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:text="Текст"
            android:textSize="16sp"
            android:layout_marginTop="12dp"
            android:textColor="#333333" />
    </LinearLayout>
</ScrollView>

```

56) create_post_activity.xml;

```

<?xml version="1.0" encoding="utf-8"?>
<ScrollView xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:padding="16dp">

    <LinearLayout
        android:orientation="vertical"
        android:layout_width="match_parent"
        android:layout_height="wrap_content">

        <Spinner

```

```

        android:id="@+id/brandSpinner"
        android:layout_width="match_parent"
        android:layout_height="45dp"
        android:layout_marginBottom="16dp"
        android:padding="12dp"
        android:textAlignment="center"
        android:spinnerMode="dropdown" />

<Spinner
    android:id="@+id/modelSpinner"
    android:layout_width="match_parent"
    android:layout_height="45dp"
    android:layout_marginBottom="16dp"
    android:padding="12dp"
    android:textAlignment="center"
    android:spinnerMode="dropdown" />

<EditText
    android:id="@+id/titleEditText"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:hint="Заголовок"
    android:layout_marginBottom="12dp" />

<EditText
    android:id="@+id/contentEditText"
    android:layout_width="match_parent"
    android:layout_height="150dp"
    android:gravity="top"
    android:hint="Текст записи"
    android:layout_marginBottom="12dp" />

<EditText
    android:id="@+id/mileageEditText"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:hint="Пробег (в км)"
    android:inputType="number"
    android:layout_marginBottom="20dp" />

<Button
    android:id="@+id/publishButton"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:backgroundTint="@color/red"
    android:text="Опубликовать" />
</LinearLayout>
</ScrollView>

```

57) item_admin_bortjournal.xml;

```

<?xml version="1.0" encoding="utf-8"?>
<androidx.cardview.widget.CardView 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="wrap_content"
    android:layout_margin="12dp"
    app:cardCornerRadius="16dp"
    app:cardElevation="6dp"
    android:backgroundTint="#FFFFFF">

    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:orientation="vertical"
        android:padding="16dp">

        <TextView
            android:id="@+id/adminTitle"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"

```

```

        android:text="Заголовок поста"
        android:textStyle="bold"
        android:textSize="18sp"
        android:textColor="#222222" />

<TextView
    android:id="@+id/adminBrandModel"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginTop="4dp"
    android:text="Марка Модель"
    android:textSize="16sp"
    android:textColor="#666666" />

<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:orientation="horizontal"
    android:layout_marginTop="12dp"
    android:gravity="end">

    <Button
        android:id="@+id/approveButton"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:backgroundTint="@color/red"
        android:text="Подтвердить"
        android:textColor="#FFFFFF"
        android:layout_marginEnd="8dp"/>

    <Button
        android:id="@+id/deleteButton"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:backgroundTint="@color/red"
        android:text="Удалить"
        android:textColor="#FFFFFF" />

</LinearLayout>

</LinearLayout>
</androidx.cardview.widget.CardView>

```

58) item_bortjournal.xml;

```

<?xml version="1.0" encoding="utf-8"?>
<androidx.cardview.widget.CardView xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:card_view="http://schemas.android.com/apk/res-auto"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_margin="12dp"
    android:elevation="6dp"
    card_view:cardCornerRadius="16dp"
    card_view:cardUseCompatPadding="true"
    android:background="@android:color/white">

    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:orientation="vertical"
        android:padding="16dp">

        <TextView
            android:id="@+id/brandModelTextView"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:textStyle="bold"
            android:textSize="16sp"
            android:textColor="#111111"
            android:layout_marginBottom="4dp" />

        <TextView

```

```

        android:id="@+id/titleTextView"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:textStyle="bold"
        android:textSize="18sp"
        android:textColor="#222222"
        android:layout_marginBottom="6dp" />

<TextView
    android:id="@+id/mileageTextView"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:textColor="#666666"
    android:textSize="14sp"
    android:layout_marginBottom="10dp" />

<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:orientation="horizontal"
    android:gravity="center_vertical">

    <ImageView
        android:id="@+id/profileImageView"
        android:layout_width="42dp"
        android:layout_height="42dp"
        android:layout_marginEnd="12dp"
        android:scaleType="centerCrop"
        android:background="@drawable/circle"
        android:src="@drawable/user" />

    <TextView
        android:id="@+id/userNameTextView"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:textSize="16sp"
        android:textColor="#444444"
        android:text="Имя пользователя" />
</LinearLayout>

</LinearLayout>
</androidx.cardview.widget.CardView>

```

59) item_car.xml;

```

<?xml version="1.0" encoding="utf-8"?>
<androidx.cardview.widget.CardView 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="wrap_content"
    android:layout_margin="8dp"
    app:cardCornerRadius="12dp"
    app:cardElevation="4dp">

    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:orientation="vertical"
        android:padding="8dp">

        <ImageView
            android:id="@+id/carImageView"
            android:layout_width="match_parent"
            android:layout_height="150dp"
            android:scaleType="centerCrop"
            android:background="@android:color/darker_gray" />

        <TextView
            android:id="@+id/carTitleTextView"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"

```

```

        android:textSize="18sp"
        android:textStyle="bold"
        android:layout_marginTop="8dp"
        android:textColor="#000" />

<TextView
    android:id="@+id/carPriceTextView"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:textSize="16sp"
    android:textColor="#333" />

<TextView
    android:id="@+id/carMileageTextView"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Пробег: 0 км"
    android:textSize="14sp"
    android:textColor="#666"
    android:layout_marginTop="4dp" />

<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:orientation="horizontal"
    android:layout_marginTop="4dp"
    android:gravity="center_vertical">

    <TextView
        android:id="@+id/carStatusTextView"
        android:layout_width="0dp"
        android:layout_height="wrap_content"
        android:layout_weight="1"
        android:text="Статус:"
        android:textSize="14sp"
        android:textColor="#888" />

    <TextView
        android:id="@+id/deleteCarButton"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Удалить"
        android:textColor="#B00020"
        android:textSize="14sp"
        android:paddingStart="12dp"
        android:background="@android:color/transparent" />
</LinearLayout>

<ImageButton
    android:id="@+id/favoriteButton"
    android:layout_width="40dp"
    android:layout_height="40dp"
    android:layout_gravity="end"
    android:background="?attr/selectableItemBackgroundBorderless"
    android:padding="8dp"
    android:src="@drawable/ic_heart_outline"
    android:contentDescription="Добавить в избранное" />
</LinearLayout>

</androidx.cardview.widget.CardView>

```

60) item_car_admin.xml;

```

<?xml version="1.0" encoding="utf-8"?>
<androidx.cardview.widget.CardView xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_margin="8dp"
    android:elevation="4dp">

    <LinearLayout

```

```

        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:orientation="vertical"
        android:padding="16dp">

        <TextView
            android:id="@+id/tvBrand"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="Brand"
            android:textSize="18sp"
            android:textStyle="bold" />

        <TextView
            android:id="@+id/tvModel"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="Model"
            android:textSize="16sp" />

        <TextView
            android:id="@+id/tvPrice"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="Price"
            android:textSize="16sp"
            android:textColor="@android:color/holo_green_dark" />

        <LinearLayout
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:orientation="horizontal"
            android:gravity="end"
            android:layout_marginTop="8dp">

            <Button
                android:id="@+id/btnAccept"
                android:layout_width="wrap_content"
                android:layout_height="wrap_content"
                android:text="Принять"
                android:backgroundTint="@color/red"

                android:layout_marginEnd="8dp" />

            <Button
                android:id="@+id/btnDelete"
                android:layout_width="wrap_content"
                android:layout_height="wrap_content"
                android:backgroundTint="@color/red"
                android:text="Удалить" />

        </LinearLayout>

    </LinearLayout>
</androidx.cardview.widget.CardView>

```

61) item_car_image.xml;

```

<ImageView xmlns:android="http://schemas.android.com/apk/res/android"
    android:id="@+id/imageView"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:scaleType="centerCrop"/>

```

62) item_car_user.xml;

```

<?xml version="1.0" encoding="utf-8"?>
<androidx.cardview.widget.CardView 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="wrap_content"
android:layout_margin="8dp"
app:cardCornerRadius="12dp"
app:cardElevation="4dp">

<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:orientation="vertical"
    android:padding="8dp">

    <ImageView
        android:id="@+id/carImageView"
        android:layout_width="match_parent"
        android:layout_height="150dp"
        android:scaleType="centerCrop"
        android:background="@android:color/darker_gray" />

    <TextView
        android:id="@+id/carTitleTextView"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:textSize="18sp"
        android:textStyle="bold"
        android:layout_marginTop="8dp"
        android:textColor="#000" />

    <TextView
        android:id="@+id/carPriceTextView"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:textSize="16sp"
        android:textColor="#333" />

    <TextView
        android:id="@+id/carMileageTextView"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Пробег: 0 км"
        android:textSize="14sp"
        android:textColor="#666"
        android:layout_marginTop="4dp" />

    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:orientation="horizontal"
        android:layout_marginTop="4dp"
        android:gravity="center_vertical">

        <TextView
            android:id="@+id/carStatusTextView"
            android:layout_width="0dp"
            android:layout_height="wrap_content"
            android:layout_weight="1"
            android:text="Статус:"
            android:textSize="14sp"
            android:textColor="#888" />

        <TextView
            android:id="@+id/deleteCarButton"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="Удалить"
            android:textColor="#B00020"
            android:textSize="14sp"
            android:paddingStart="12dp"
            android:background="@android:color/transparent" />
    </LinearLayout>

    <ImageButton
        android:id="@+id/favoriteButton"
        android:layout_width="40dp"

```

```

        android:layout_height="40dp"
        android:layout_gravity="end"
        android:background="?attr/selectableItemBackgroundBorderless"
        android:padding="8dp"
        android:src="@drawable/ic_heart_outline"
        android:contentDescription="Добавить в избранное" />
    </LinearLayout>

</androidx.cardview.widget.CardView>

```

63) item_image.xml;

```

<?xml version="1.0" encoding="utf-8"?>
<ImageView xmlns:android="http://schemas.android.com/apk/res/android"
    android:id="@+id/imageView"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:scaleType="centerCrop"/>

```

64) bottom_nav_menu.xml;

```

<?xml version="1.0" encoding="utf-8"?>
<menu xmlns:android="http://schemas.android.com/apk/res/android">
    <item
        android:id="@+id/nav_manage_models"
        android:icon="@drawable/pluss"
        android:title="Марки и модели" />
    <item
        android:id="@+id/nav_manage_bort"
        android:icon="@drawable/garage"
        android:title="Бортжурнал" />
</menu>

```

65) bottom_navigation_menu.xml;

```

<!-- res/menu/bottom_navigation_menu.xml -->
<menu xmlns:android="http://schemas.android.com/apk/res/android">
    <item
        android:id="@+id/nav_home"
        android:icon="@drawable/home" />
    <item
        android:id="@+id/nav_saved"
        android:icon="@drawable/star" />
    <item
        android:id="@+id/nav_create"
        android:icon="@drawable/pluss" />
    <item
        android:id="@+id/nav_garage"
        android:icon="@drawable/garage" />

    <item
        android:id="@+id/nav_profile"
        android:icon="@drawable/user" />
</menu>

```

66) colors.xml;

```

<?xml version="1.0" encoding="utf-8"?>
<resources>
    <color name="black">#FF000000</color>
    <color name="white">#FFFFFFFF</color>
    <color name="red">#ba0f1d</color>
</resources>

```

67) strings.xml;


```

<resources>
  <string name="app_name">Drivee</string>
</resources>

```

68) styles.xml;

```

<?xml version="1.0" encoding="utf-8"?>
<resources>
  <style name="CircleImage" parent="">
    <item name="cornerFamily">rounded</item>
    <item name="cornerSize">50%</item>
  </style>
</resources>

```

69) values.xml;

```

<?xml version="1.0" encoding="utf-8"?>
<resources>
  <string name="gcm_defaultSenderId" translatable="false">1034230179468</string>
  <string name="google_api_key" translatable="false">AIzaSyBBQRNebcXKiFtSWDjlTZE56yuXzamgpGA</string>
  <string name="google_app_id" translatable="false">1:1034230179468:android:36f2445a4d7d74f680bda9</string>
  <string name="google_crash_reporting_api_key"
translatable="false">AIzaSyBBQRNebcXKiFtSWDjlTZE56yuXzamgpGA</string>
  <string name="google_storage_bucket" translatable="false">drivee-42a66.firebaseioapp</string>
  <string name="project_id" translatable="false">drivee-42a66</string>
</resources>

```

70) build.gradle;

```

plugins {
  alias(libs.plugins.android.application)
  alias(libs.plugins.google.gms.google.services)
}

android {
  namespace 'com.example.drivee'
  compileSdk 35

  defaultConfig {
    applicationId "com.example.drivee"
    minSdk 24
    targetSdk 35
    versionCode 1
    versionName "1.0"

    testInstrumentationRunner "androidx.test.runner.AndroidJUnitRunner"
  }

  buildTypes {
    release {
      minifyEnabled false
      proguardFiles getDefaultProguardFile('proguard-android-optimize.txt'), 'proguard-rules.pro'
    }
  }
  compileOptions {
    sourceCompatibility JavaVersion.VERSION_11
    targetCompatibility JavaVersion.VERSION_11
  }
}

dependencies {
  implementation 'com.github.bumptech.glide:glide:4.12.0'
  implementation libs.firebase.firestore
  implementation libs.play.services.location
  annotationProcessor 'com.github.bumptech.glide:compiler:4.12.0'
  implementation libs.appcompat
  implementation libs.material

```

```

implementation 'com.squareup.retrofit2:retrofit:2.9.0'
implementation 'com.squareup.retrofit2:converter-gson:2.9.0'
implementation 'com.squareup.okhttp3:okhttp:4.9.3'
implementation libs.activity
implementation libs.constraintlayout
implementation 'com.squareup.picasso:picasso:2.71828'
implementation libs.firebase.auth
testImplementation libs.junit
androidTestImplementation libs.ext.junit
androidTestImplementation libs.espresso.core
implementation 'androidx.viewpager2:viewpager2:1.0.0'
}

```

71) libs.versions.toml;

```

[versions]
agp = "8.8.0"
junit = "4.13.2"
junitVersion = "1.2.1"
espressoCore = "3.6.1"
appcompat = "1.7.0"
material = "1.12.0"
activity = "1.10.1"
constraintlayout = "2.2.1"
firebaseAuth = "23.2.0"
googleGmsGoogleServices = "4.4.2"
firebaseFirestore = "25.1.3"
playServicesLocation = "21.3.0"

[libraries]
junit = { group = "junit", name = "junit", version.ref = "junit" }
ext-junit = { group = "androidx.test.ext", name = "junit", version.ref = "junitVersion" }
espresso-core = { group = "androidx.test.espresso", name = "espresso-core", version.ref = "espressoCore" }
appcompat = { group = "androidx.appcompat", name = "appcompat", version.ref = "appcompat" }
material = { group = "com.google.android.material", name = "material", version.ref = "material" }
activity = { group = "androidx.activity", name = "activity", version.ref = "activity" }
constraintlayout = { group = "androidx.constraintlayout", name = "constraintlayout", version.ref = "constraintlayout" }
firebase-auth = { group = "com.google.firebase", name = "firebase-auth", version.ref = "firebaseAuth" }
firebase-firestore = { group = "com.google.firebase", name = "firebase-firestore", version.ref = "firebaseFirestore" }
play-services-location = { group = "com.google.android.gms", name = "play-services-location", version.ref = "playServicesLocation" }

[plugins]
android-application = { id = "com.android.application", version.ref = "agp" }
google-gms-google-services = { id = "com.google.gms.google-services", version.ref = "googleGmsGoogleServices" }

```