

MINI PROJECT

Travel Blog Application



Institute of Engineering & Technology

Submitted by-

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Introduction

1.1 General Introduction to topic

Welcome to Travel Blog Application that describes the tourist places. We are creating this app to tell the people who wish to visit a place to enjoy their time efficiently with low investment. We aim to provide an interesting, honest and genuine blog to our user. Since everyone has android phones with them as it is moderate in price and easy to handle so we decided to make an android app to reach out to one and all. This android application is designed in Kotlin, official language of Android.

1.2 Hardware Requirements

- Android Operating System
- Min 2GB RAM (Memory)

1.3 Software requirements

- Desktop or Smartphone
- Android Studio
- Internet Connection

Problem Statement

According to The World Travel and Tourism Council (WTTC), tourism generated \$194 bn or 6.8% of India's GDP in 2019 and supported 39.80 Mn jobs which is 8 % of its total employment. The sector is predicted to grow at an annual rate of 6.9% to \$460 bn by 2028 which is 9.9% of GDP. We want to create a platform where people can share their experience of their tours, the places they visit, what their feelings are, is the place worth visiting or not. It should be easy to access. So, we are creating an android based application where people can share their thoughts and experiences of their tour in the form of a blog. People can also review other people's blogs. They can create their own user id for the activities.

Objective

To solve this problem we create a MADE IN INDIA android application. Our application is able to provide the following features to the users, which are:-

- Login / Logout
- List Screen
- Detail Screen
- Sorting the blogs
- Searching the blogs

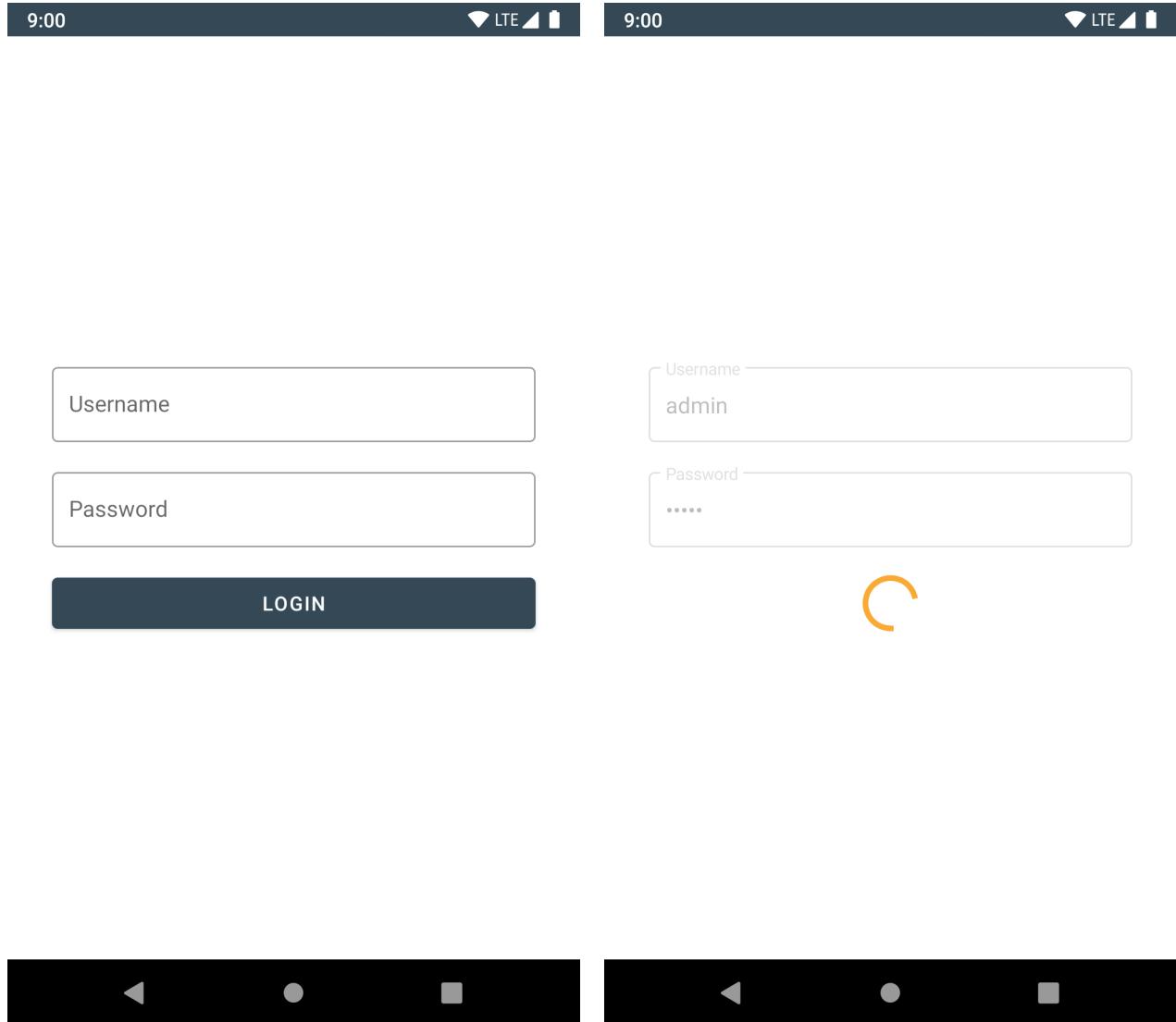
Implementation Details

- Login screen :

This is the first screen users will see after installation as this application requires authentication of the user. This screen / activity contains two edit text fields and one button to login. We use modern material design in our application.

- “Username” : It is an editable text field whose input type is *text email address*. Hence, it will only take email address format type text.
- “Password” : It is also an editable text field whose input type is *text password*.
- “Login” : It is a material type button. With the help of this button, users can jump to the list screen.

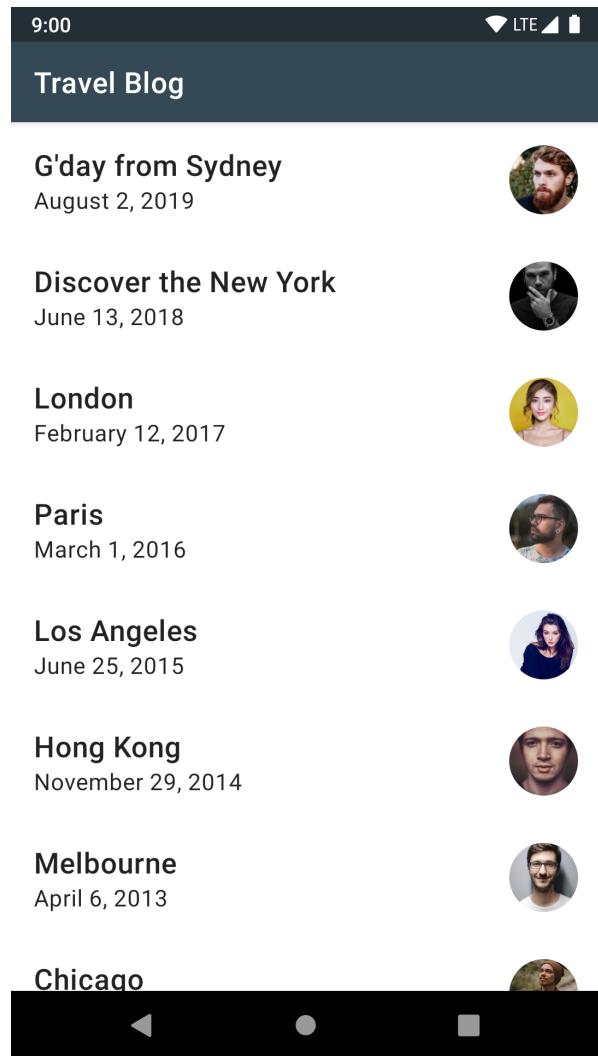
We also use a material type *progress bar* in the login screen. This we help the user to see the progress of data loading. When the progress bar is enabled other fields will be disable and the user will not be able to change anything.



- List Screen :

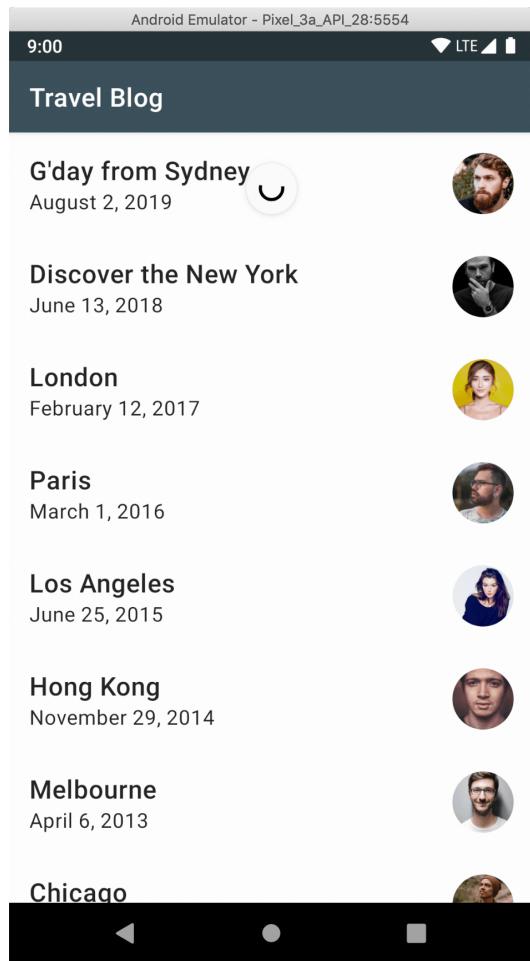
After login the application, the user can see the list screen. For the list screen, we use .xml files; activity_main.xml and ite_main.xml. In the first one we use *Material type toolbar* , *Recyclerview* and *Swift refresh layout*. We call the second .xml file in the.recyclerview and it loads the data accordingly.

The item in the list will contain the title of the blog, date in which blog is posted and the image of the user who posted the blog.



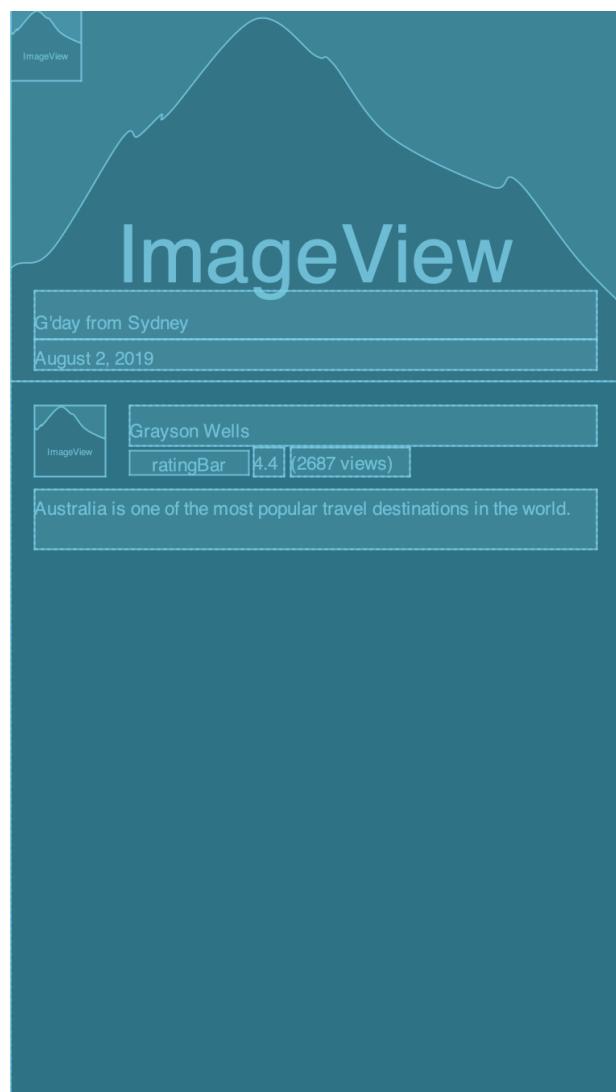
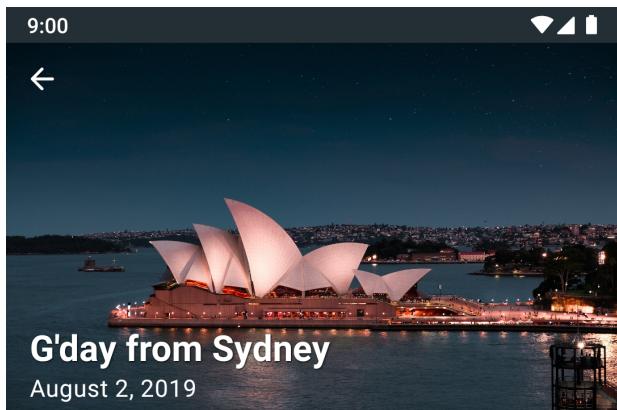
- Swift refresh :

List screen also has the feature of swift refresh. Hence, by swiping from top to down, the user can refresh the list.



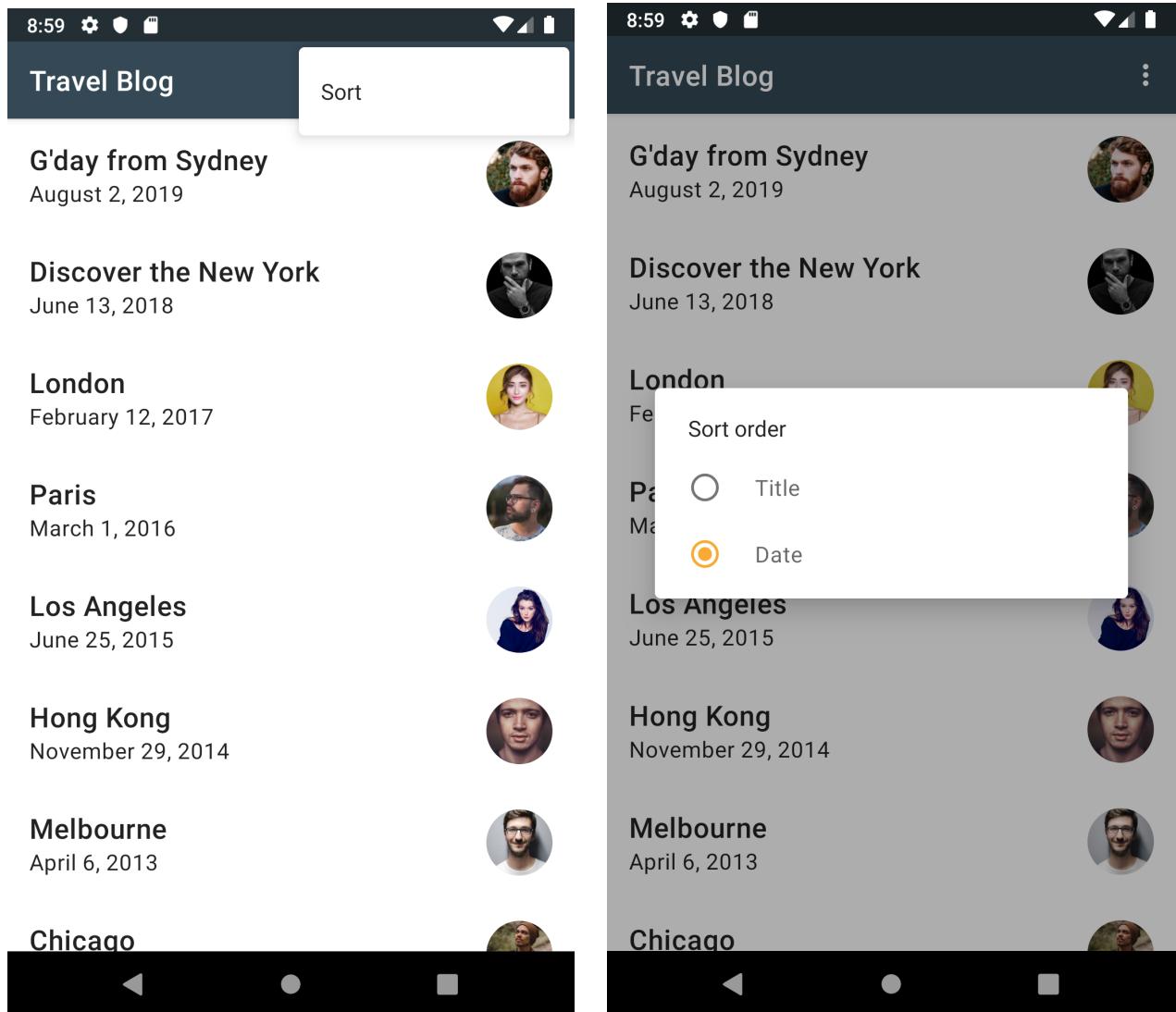
- Detail Screen:

Every blog in the list screen is followed by the detail screen. The blueprint of the detail screen is given below. In this detail screen, users will see the whole blog content. With the content of three blogs, there will be an image of the user as well as the rating of the blog with the stars for rating. It will also show the number of people who have given their rating.



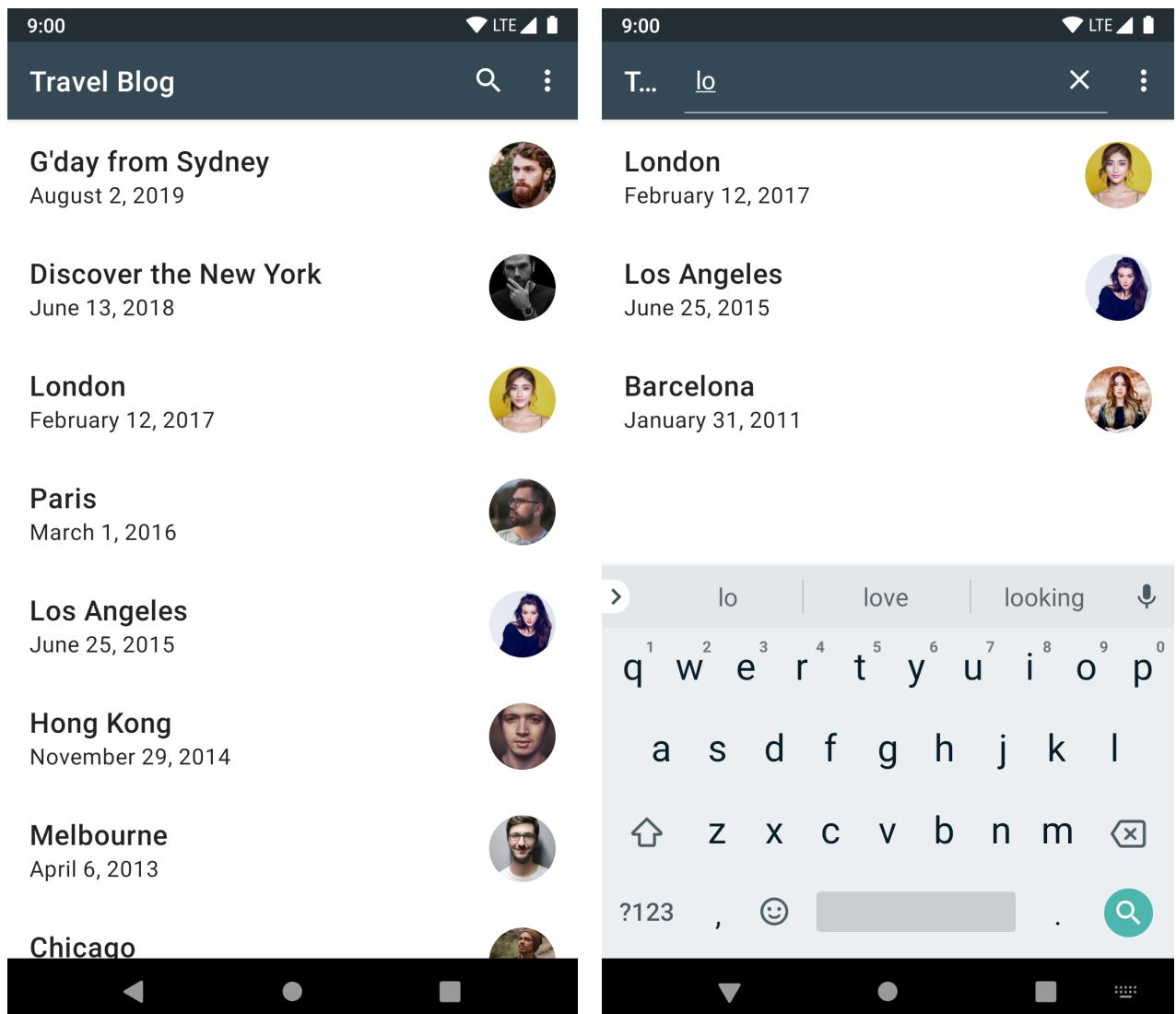
- Sort the blogs:

In the list screen there is a feature of sorting for user convenience. Users can sort the list according to the date of the blog release or by the title of the blogs. This will help the user to find the blog easily.



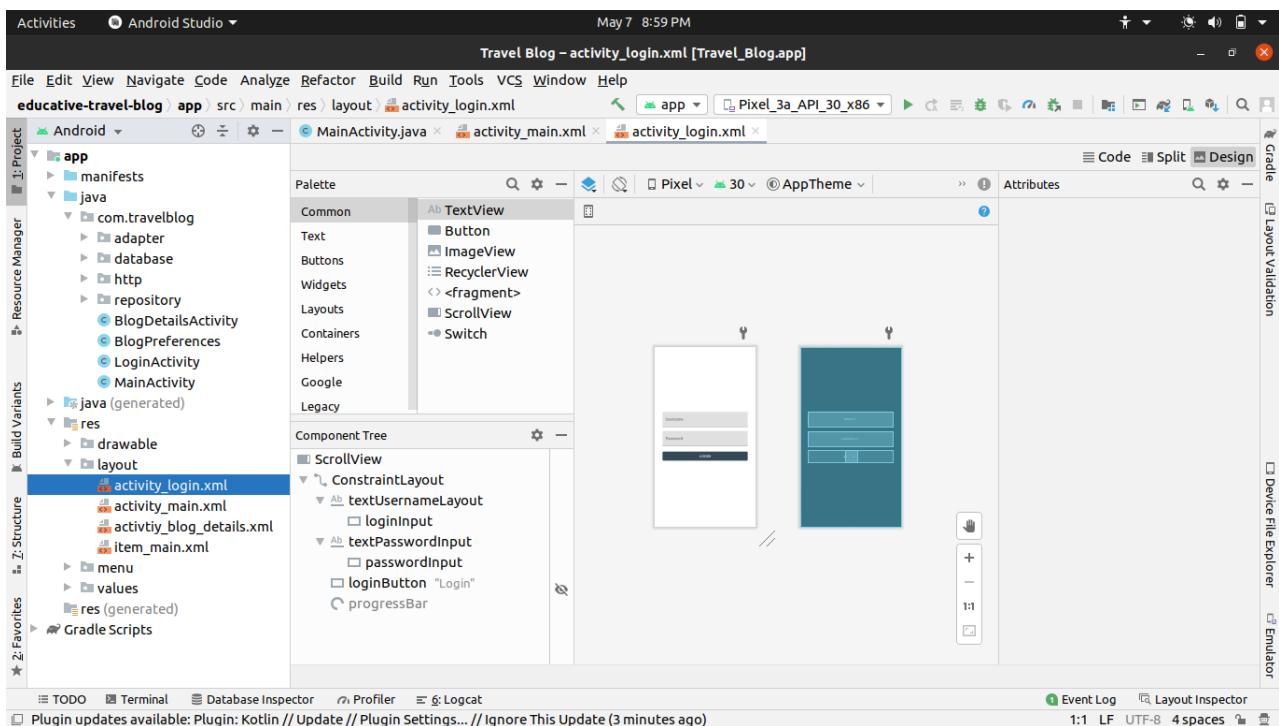
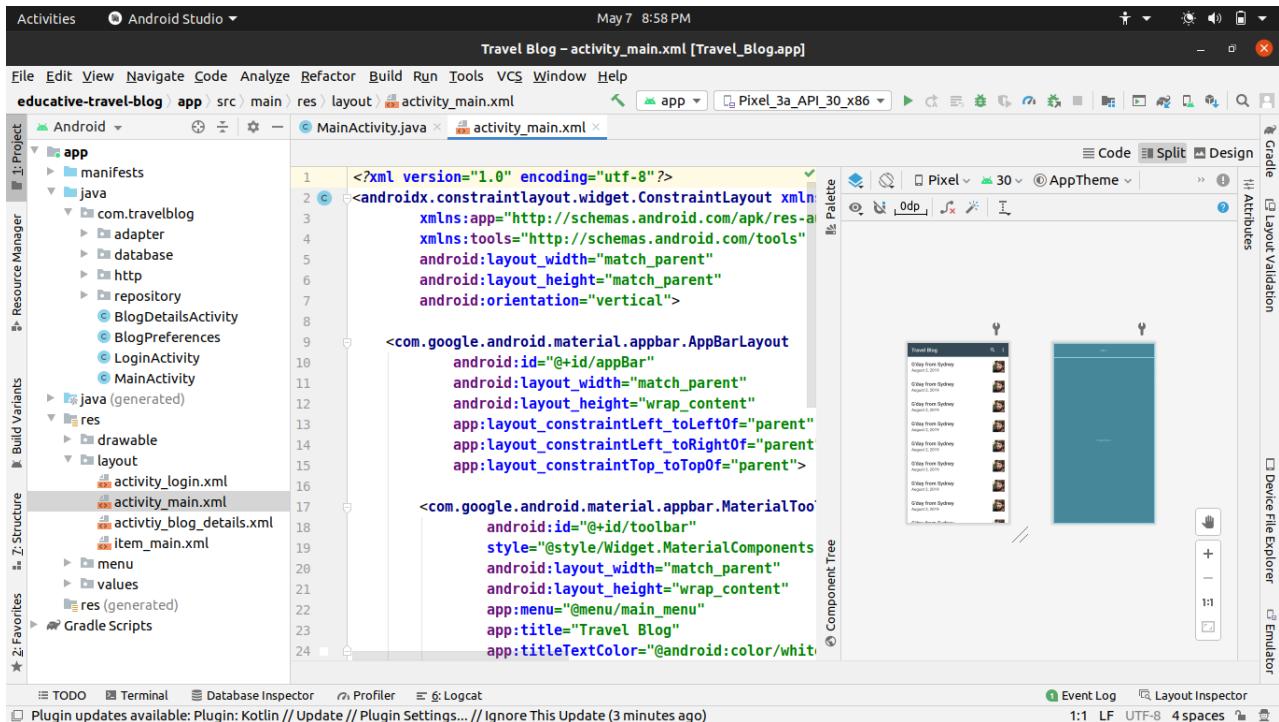
- Search the blog :

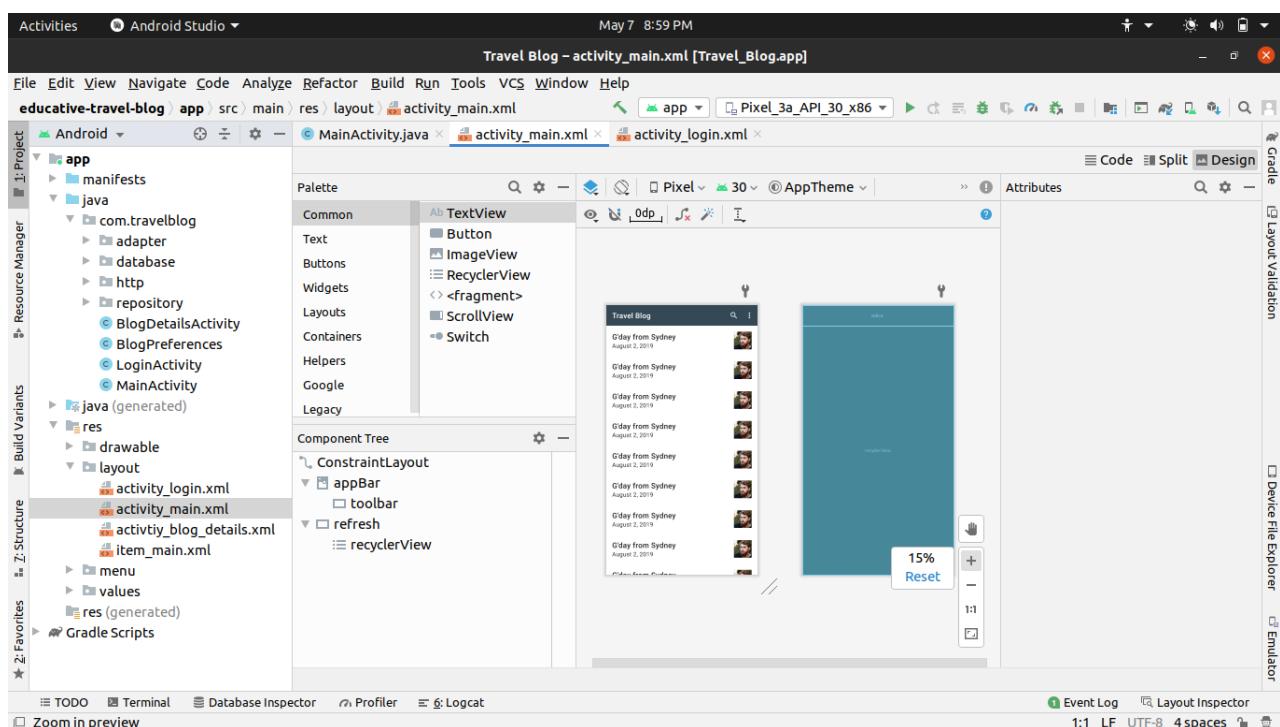
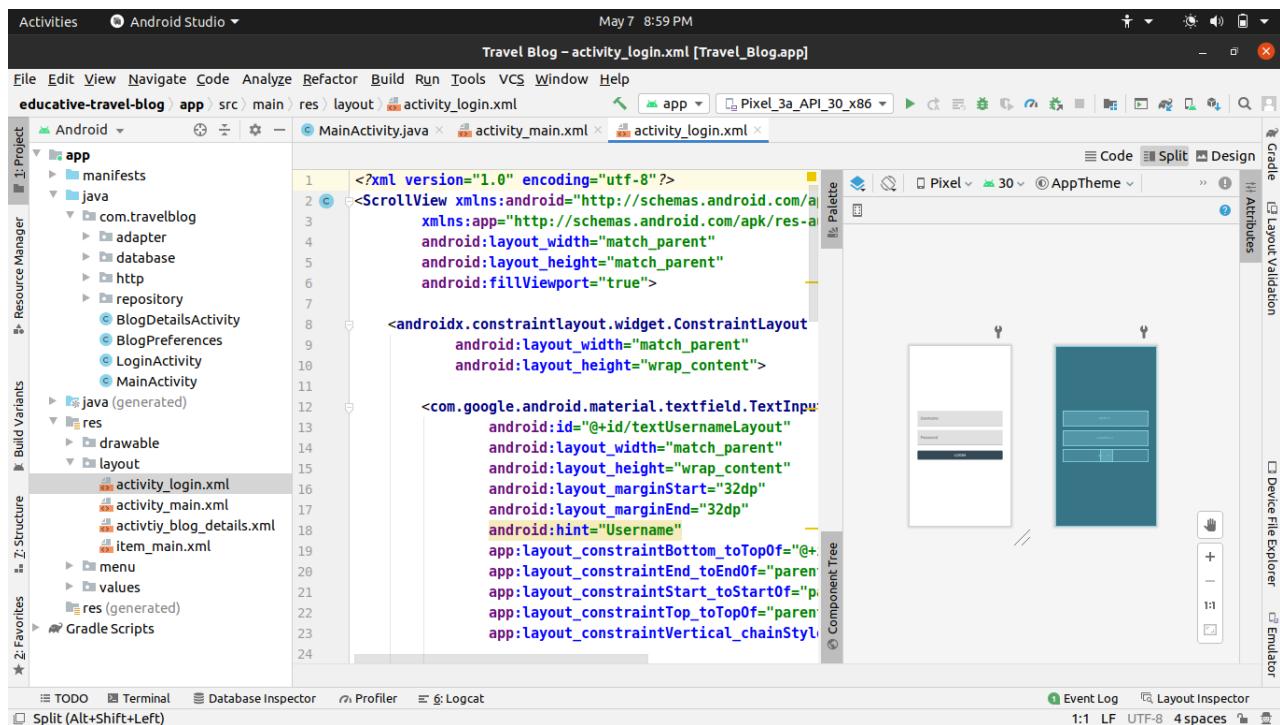
We add another convenient feature for the users i.e. searching by alphabets. In the list screen users will find a search symbol at the top right corner of the screen. By tapping on the search symbol, an editable field will generate where the user can enter the title or the date.



- Offline blog :
- Lots of time there is an internet problem and the user wants to read the blogs. For the same, the user has the facility to read the blogs offline as well as online. We use caching for providing the data offline. When the user launches the app, the cache data will automatically load.

Screenshots of Code





Activities Android Studio May 7 8:59 PM

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

educative-travel-blog app src main java com travelblog LoginActivity Pixel_3a_API_30_x86

```
1 package com.travelblog;
2
3 import ...
4
5 public class LoginActivity extends AppCompatActivity {
6
7     private TextInputLayout textUsernameLayout;
8     private TextInputLayout textPasswordInput;
9     private ProgressBar progressBar;
10    private Button loginButton;
11
12    private BlogPreferences preferences;
13
14    @Override
15    protected void onCreate(@Nullable Bundle savedInstanceState) {
16        super.onCreate(savedInstanceState);
17
18        preferences = new BlogPreferences(context: this);
19        if (preferences.isLoggedIn()) {
20            startMainActivity();
21            finish();
22            return;
23        }
24
25        setContentView(R.layout.activity_login);
26
27    }
28
29
30
31
32
33
34
35
36
37
38
39
```

Android Project Resource Manager Favorites Z-Structure Build Variants Gradle Scripts

Event Log Layout Inspector 27:14 LF UTF-8 4 spaces

Activities Android Studio May 7 8:59 PM

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

educative-travel-blog app src main java com travelblog LoginActivity Pixel_3a_API_30_x86

```
41    textPasswordInput = findViewById(R.id.textPasswordInput);
42    progressBar = findViewById(R.id.progressBar);
43    loginButton = findViewById(R.id.loginButton);
44
45    textUsernameLayout.getEditText().addTextChangedListener(createTextWatcher(textUsernameLayout));
46    textPasswordInput.getEditText().addTextChangedListener(createTextWatcher(textPasswordInput));
47    loginButton.setOnClickListener(v -> onLoginClicked());
48
49
50
51    private void onLoginClicked() {
52        String username = textUsernameLayout.getEditText().getText().toString();
53        String password = textPasswordInput.getEditText().getText().toString();
54        if (username.isEmpty()) {
55            textUsernameLayout.setError("Username must not be empty");
56        } else if (password.isEmpty()) {
57            textPasswordInput.setError("Password must not be empty");
58        } else if (!username.equals("admin") && !password.equals("admin")) {
59            showErrorDialog();
60        } else {
61            performLogin();
62        }
63
64    }
65
66    private void performLogin() {
67        preferences.setLoggedIn(true);
68    }
69
70
```

Android Project Resource Manager Favorites Z-Structure Build Variants Gradle Scripts

Event Log Layout Inspector 27:14 LF UTF-8 4 spaces

Activities Android Studio ▾ May 7 8:59 PM

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

Travel Blog - LoginActivity.java [Travel_Blog.app]

educative-travel-blog app src main java com.travelblog LoginActivity

MainActivity.java activity_main.xml LoginActivity.java activity_login.xml

Project Resource Manager Favorites Build Variants Z-Structure 2: Favorites Gradle Scripts

```
private void startMainActivity() {
    Intent intent = new Intent( packageContext: this, MainActivity.class );
    startActivity(intent);
}

private void showErrorDialog() {
    new AlertDialog.Builder( context: this )
        .setTitle("Login Failed")
        .setMessage("Username or password is not correct. Please try again.")
        .setPositiveButton( text: "OK", (dialog, which) -> dialog.dismiss().show());
}

private TextWatcher createTextWatcher(TextInputLayout textPasswordInput) {
    return new TextWatcher() {
        @Override
        public void beforeTextChanged(CharSequence s, int start, int count, int after) {

        }

        @Override
        public void onTextChanged(CharSequence s, int start, int before, int count) {
            textPasswordInput.setError(null);
        }

        @Override
        public void afterTextChanged(Editable s) {
        }
    };
}
```

Event Log Layout Inspector 27:14 LF UTF-8 4 spaces

Plugin updates available: Plugin: Kotlin // Update // Plugin Settings... // Ignore This Update (4 minutes ago)

Activities Android Studio ▾ May 7 8:59 PM

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

Travel Blog - LoginActivity.java [Travel_Blog.app]

educative-travel-blog app src main java com.travelblog LoginActivity

MainActivity.java activity_main.xml LoginActivity.java activity_login.xml

Project Resource Manager Favorites Build Variants Z-Structure 2: Favorites Gradle Scripts

```
private TextWatcher createTextWatcher(TextInputLayout textPasswordInput) {
    return new TextWatcher() {
        @Override
        public void beforeTextChanged(CharSequence s, int start, int count, int after) {

        }

        @Override
        public void onTextChanged(CharSequence s, int start, int before, int count) {
            textPasswordInput.setError(null);
        }

        @Override
        public void afterTextChanged(Editable s) {
        }
    };
}
```

Event Log Layout Inspector 27:14 LF UTF-8 4 spaces

Plugin updates available: Plugin: Kotlin // Update // Plugin Settings... // Ignore This Update (4 minutes ago)

The screenshot shows the Android Studio interface with the following details:

- Top Bar:** Activities, Android Studio, May 7 9:00 PM, Travel Blog - MainActivity.java [Travel_Blog.app]
- Menu Bar:** File, Edit, View, Navigate, Code, Analyze, Refactor, Build, Run, Tools, VCS, Window, Help
- Toolbar:** educative-travel-blog app src main java com travelblog MainActivity
- Project Structure:** Shows the project tree with modules: app, manifests, java, com.travelblog, adapter, database, http, repository, BlogDetailsActivity, BlogPreferences, LoginActivity, and MainActivity.
- Code Editor:** Displays the MainActivity.java code. The code handles the creation of a toolbar, setting up a search view, and managing an adapter for displaying blog posts.
- Bottom Bar:** TODO, Terminal, Database Inspector, Profiler, Logcat, Event Log, Layout Inspector.

```
setContentView(R.layout.activity_main);

repository = new BlogRepository(getApplicationContext());

MaterialToolbar toolbar = findViewById(R.id.toolbar);
toolbar.setOnMenuItemClickListener(item -> {
    if (item.getItemId() == R.id.sort) {
        onSortClicked();
    }
    return false;
});

MenuItem searchItem = toolbar.getMenu().findItem(R.id.search);
SearchView searchView = (SearchView) searchItem.getActionView();
searchView.setOnQueryTextListener(new SearchView.OnQueryTextListener() {
    @Override
    public boolean onQueryTextSubmit(String query) { return false; }

    @Override
    public boolean onQueryTextChange(String newText) {
        adapter.filter(newText);
        return true;
    }
});

adapter = new MainAdapter(blog ->
```

The screenshot shows the Android Studio interface with the following details:

- Title Bar:** Activities, Android Studio, May 7 9:00 PM, Travel Blog – MainActivity.java [Travel_Blog.app]
- Toolbar:** File, Edit, View, Navigate, Code, Analyze, Refactor, Build, Run, Tools, VCS, Window, Help.
- Project Structure:** Shows the project structure for "educative-travel-blog" under "app". The "java" folder contains "com.travelblog" with subfolders "adapter", "database", "http", "repository", and classes "BlogDetailsActivity", "BlogPreferences", "LoginActivity", and "MainActivity".
- Main Activity Code:** The code for MainActivity.java is displayed, handling onSuccess and onError callbacks for a blog list. It includes a private method showErrorSnackbar.
- Bottom Navigation:** TODO, Terminal, Database Inspector, Profiler, Logcat.
- Bottom Status Bar:** Plugin updates available: Plugin: Kotlin // Update // Plugin Settings... // Ignore This Update (4 minutes ago), Event Log, Layout Inspector, 30:1 LF, UTF-8, 4 spaces.

Activities Android Studio ▾ May 7 9:00 PM

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

educative-travel-blog app src main java com travelblog MainActivity

```

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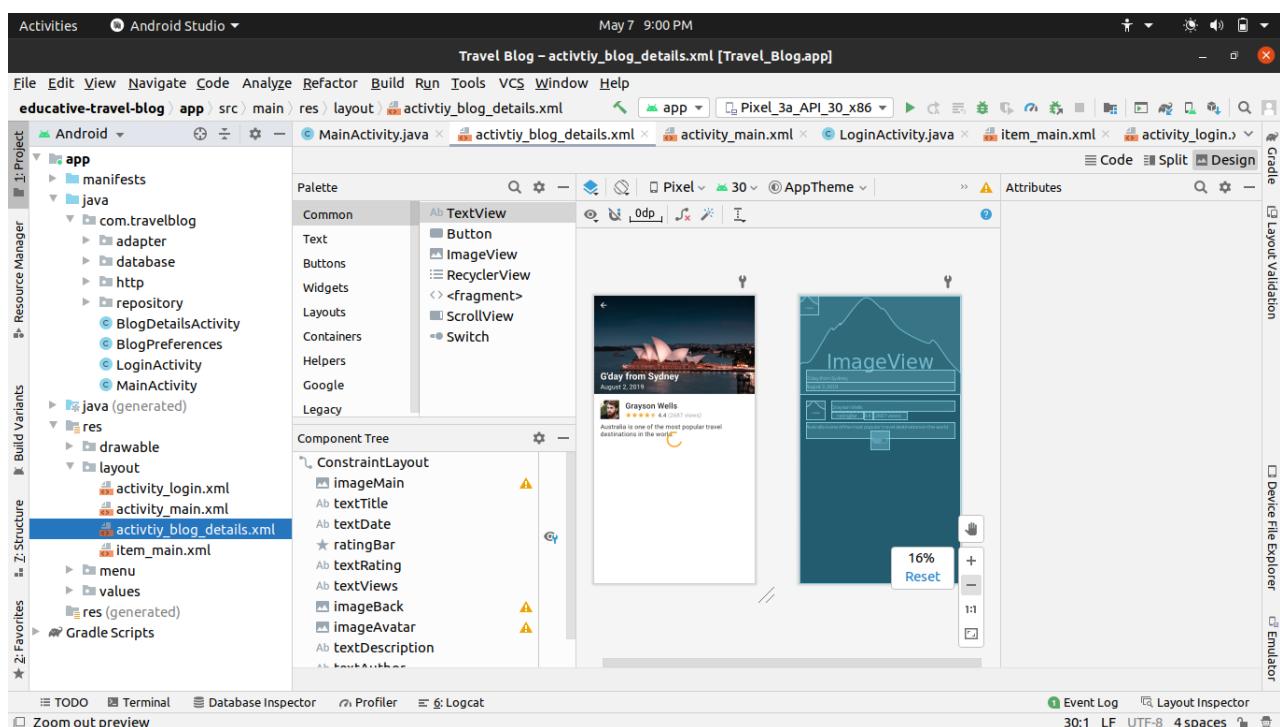
```

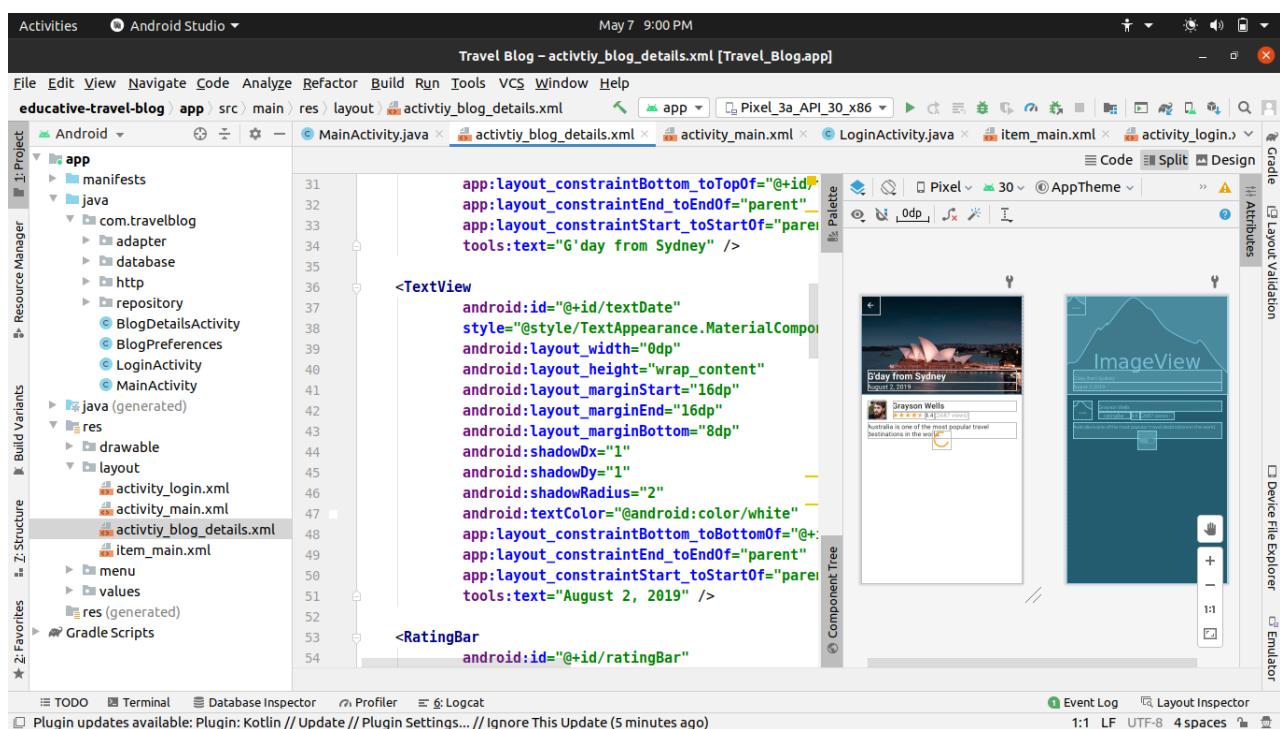
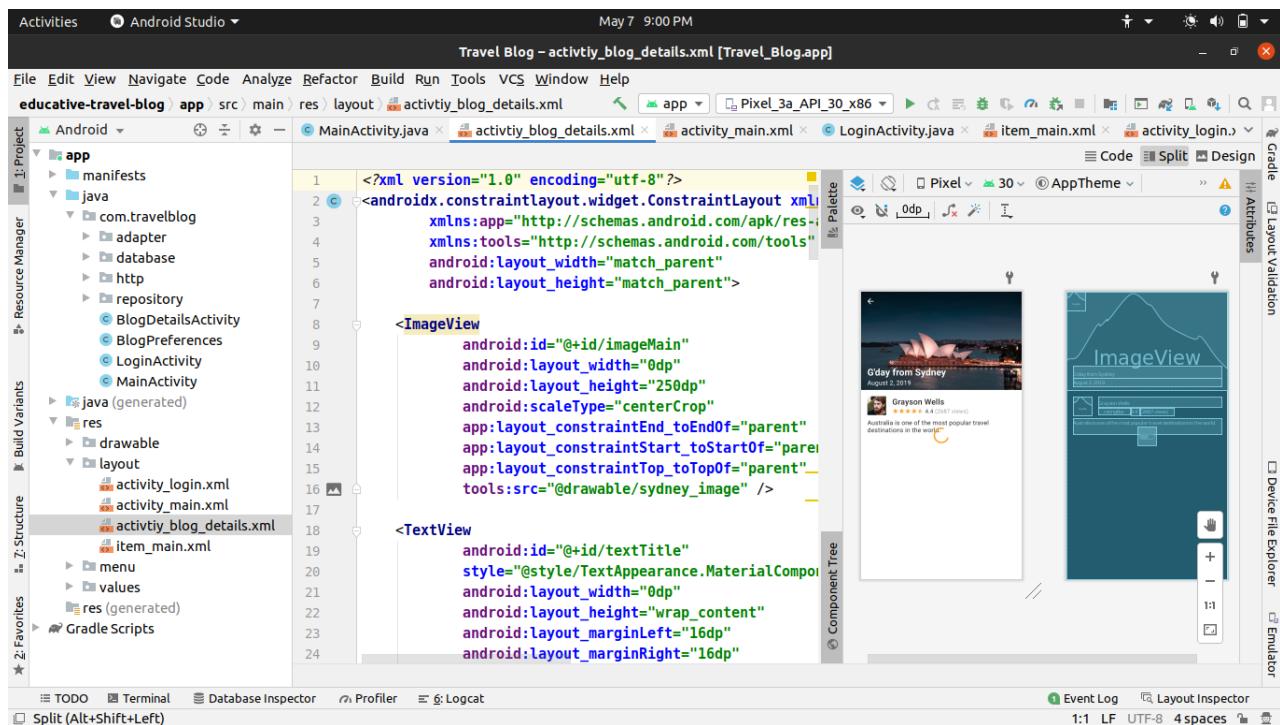
private void showErrorSnackbar() {
 View rootView = findViewById(android.R.id.content);
 Snackbar snackbar = Snackbar.make(rootView, text: "Error during loading blog articles", Snackbar.LENGTH_INDEFINITE);
 snackbar.setActionTextColor(getResources().getColor(R.color.orange500));
 snackbar.setAction(text: "Retry", v -> {
 loadDataFromNetwork();
 snackbar.dismiss();
 });
 snackbar.show();
}

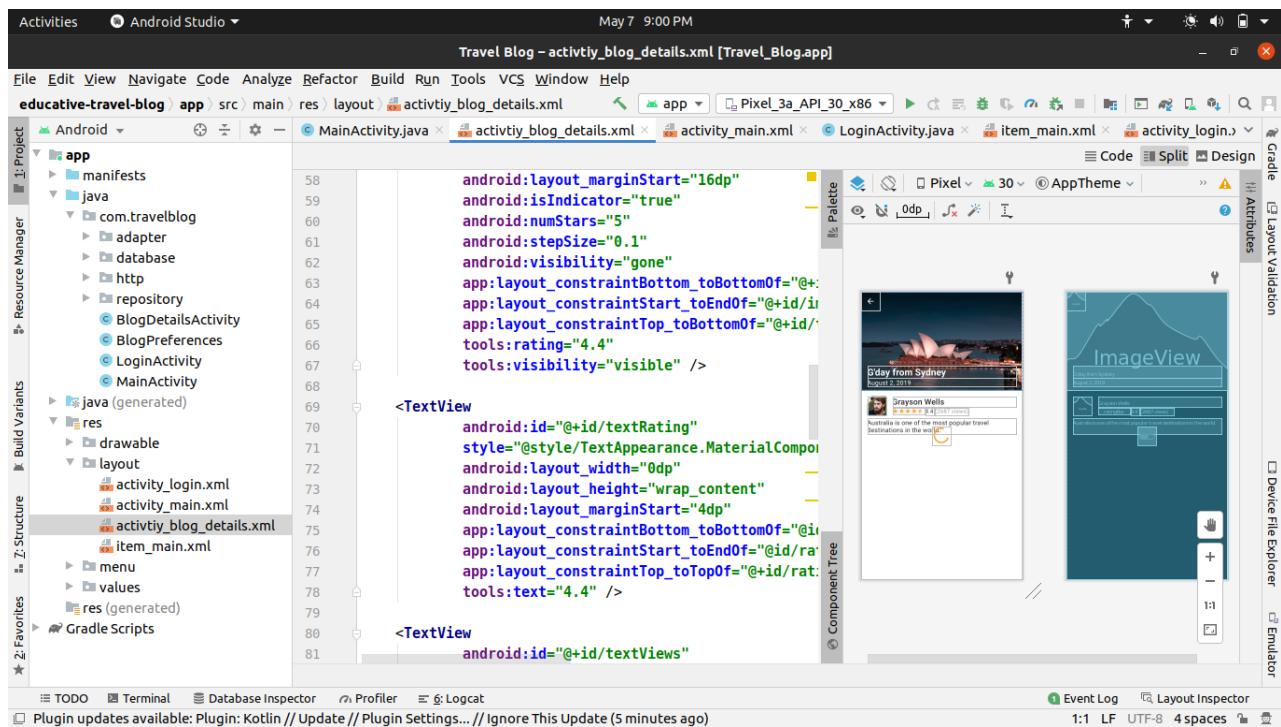
Resource Manager Build Variants Z-Structure Favorites 2: Favorites Gradle Scripts

Event Log Layout Inspector 30:1 LF UTF-8 4 spaces

Plugin updates available: Plugin: Kotlin // Update // Plugin Settings... // Ignore This Update (4 minutes ago)







Activities Android Studio May 7 9:00 PM

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

educative-travel-blog app src main res layout activitiy_blog_details.xml

MainActivity.java activitiy_blog_details.xml activity_main.xml LoginActivity.java item_main.xml activity_login.xml

Code Split Design

1-Project

app manifests java com.travelblog adapter database http repository BlogDetailsActivity BlogPreferences LoginActivity MainActivity java (generated) res drawable layout activity_login.xml activity_main.xml activitiy_blog_details.xml item_main.xml menu values res (generated) Gradle Scripts

Resource Manager Build Variants Z-Structure Favorites

88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111

```

    app:layout_constraintStart_toEndOf="@+id/t
    app:layout_constraintTopToTopOf="@+id/rat
    tools:text="(2687 views)" />

<ImageView
    android:id="@+id/imageBack"
    android:layout_width="48dp"
    android:layout_height="48dp"
    android:scaleType="centerInside"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:srcCompat="@drawable/ic_arrow_white_24"

<ImageView
    android:id="@+id/imageAvatar"
    android:layout_width="48dp"
    android:layout_height="48dp"
    android:layout_marginStart="16dp"
    android:layout_marginTop="16dp"
    android:scaleType="centerCrop"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/t
    tools:src="@drawable/avatar" />

```

Component Tree

Palette

Pixel 30 AppTheme

Layout Validation Device File Explorer Emulator

Event Log Layout Inspector

1:1 LF UTF-8 4 spaces

Plugin updates available: Plugin: Kotlin // Update // Plugin Settings... // Ignore This Update (5 minutes ago)

Activities Android Studio May 7 9:00 PM

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

educative-travel-blog app src main res layout activitiy_blog_details.xml

MainActivity.java activitiy_blog_details.xml activity_main.xml LoginActivity.java item_main.xml activity_login.xml

Code Split Design

1-Project

app manifests java com.travelblog adapter database http repository BlogDetailsActivity BlogPreferences LoginActivity MainActivity java (generated) res drawable layout activity_login.xml activity_main.xml activitiy_blog_details.xml item_main.xml menu values res (generated) Gradle Scripts

Resource Manager Build Variants Z-Structure Favorites

112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135

```

<TextView
    android:id="@+id/textDescription"
    style="@style/TextAppearance.MaterialComponents.Body1"
    android:layout_width="0dp"
    android:layout_height="wrap_content"
    android:layout_marginLeft="16dp"
    android:layout_marginTop="8dp"
    android:layout_marginRight="16dp"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/t
    tools:text="Australia is one of the most popular travel destinations in the world" />

<TextView
    android:id="@+id/textAuthor"
    style="@style/TextAppearance.MaterialComponents.Body1"
    android:layout_width="0dp"
    android:layout_height="wrap_content"
    android:layout_marginStart="16dp"
    android:layout_marginEnd="16dp"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toEndOf="@+id/t
    app:layout_constraintTop_toTopOf="@+id/imageAvatar"
    tools:text="Grayson Wells" />

```

Component Tree

Palette

Pixel 30 AppTheme

Layout Validation Device File Explorer Emulator

Event Log Layout Inspector

1:1 LF UTF-8 4 spaces

Plugin updates available: Plugin: Kotlin // Update // Plugin Settings... // Ignore This Update (5 minutes ago)

```
129 android:layout_height="wrap_content"
130 android:layout_marginStart="16dp"
131 android:layout_marginEnd="16dp"
132 app:layout_constraintEnd_toEndOf="parent"
133 app:layout_constraintStart_toEndOf="@+id/progressBar"
134 app:layout_constraintTop_toTopOf="@+id/imageView"
135 tools:text="Grayson Wells" />
136
137 <ProgressBar
138     android:id="@+id/progressBar"
139     android:layout_width="wrap_content"
140     android:layout_height="wrap_content"
141     app:layout_constraintBottom_toBottomOf="parent"
142     app:layout_constraintEnd_toEndOf="parent"
143     app:layout_constraintStart_toStartOf="parent"
144     app:layout_constraintTop_toTopOf="parent" />
145
146 </androidx.constraintlayout.widget.ConstraintLayout>
```



```
package com.travelblog.adapter;

import ...

public class MainAdapter extends ListAdapter<Blog, MainAdapter.MainViewHolder> {

    public interface OnItemClickListener {
        void onItemClick(Blog blog);
    }

    private OnItemClickListener clickListener;

    private List<Blog> originalList = new ArrayList<>();

    public MainAdapter(OnItemClickListener clickListener) {
        super(DIFF_CALLBACK);
        this.clickListener = clickListener;
    }

    @NonNull
    @Override
    public MainViewHolder onCreateViewHolder(@NonNull ViewGroup parent, int viewType) {
        LayoutInflater inflater = LayoutInflater.from(parent.getContext());
        View view = inflater.inflate(R.layout.item_main, parent, attachToRoot: false);
        return new MainViewHolder(view, clickListener);
    }
}
```

Activities Android Studio May 8 8:43 AM

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

educative-travel-blog > app > src > main > java > com > travelblog > adapter > MainAdapter.java

MainActivity.java activitiy_blog_details.xml MainAdapter.java activity_main.xml LoginActivity.java item_main.xml

app manifests java com.travelblog adapter MainAdapter database http repository BlogDetailsActivity BlogPreferences LoginActivity MainActivity java (generated) res drawable layout activity_login.xml activity_main.xml activitiy_blog_details.xml item_main.xml menu values res (generated) Gradle Scripts

```
44     }
45
46     public void setData(@Nullable List<Blog> list) {
47         originalList = list;
48         super.submitList(list);
49     }
50
51     public void filter(String query) {
52         List<Blog> filteredList = new ArrayList<>();
53         for (Blog blog : originalList) {
54             if (blog.getTitle().toLowerCase().contains(query.toLowerCase())) {
55                 filteredList.add(blog);
56             }
57         }
58         submitList(filteredList);
59     }
60
61     public void sortByTitle() {
62         List<Blog> currentList = new ArrayList<>(originalList);
63         Collections.sort(currentList, (o1, o2) -> o1.getTitle().compareTo(o2.getTitle()));
64         submitList(currentList);
65     }
66
67     public void sortByDate() {
68         List<Blog> currentList = new ArrayList<>(originalList);
69         Collections.sort(currentList, (o1, o2) -> o2.getDateMillis().compareTo(o1.getDateMillis()));
70         submitList(currentList);
71     }
72
73     static class MainViewHolder extends RecyclerView.ViewHolder {
74
75         private TextView textTitle;
76         private TextView textDate;
77         private ImageView imageAvatar;
78         private Blog blog;
79
80         MainViewHolder(@NonNull View itemView, OnItemClickListener listener) {
81             super(itemView);
82             itemView.setOnClickListener(v -> listener.onItemClicked(blog));
83             textTitle = itemView.findViewById(R.id.textTitle);
84             textDate = itemView.findViewById(R.id.textDate);
85             imageAvatar = itemView.findViewById(R.id.imageAvatar);
86         }
87
88         void bindTo(Blog blog) {
89             this.blog = blog;
90             textTitle.setText(blog.getTitle());
91             textDate.setText(blog.getDate());
92
93             Glide.with(itemView)
94                 .load(blog.getAuthor().getAvatarURL())
95                 .transform(new CircleCrop())
96                 .transition(DrawableTransitionOptions.withCrossFade());
97         }
98     }
99 }
```

Event Log Layout Inspector

Failed to start monitoring f99c074a7cf5 (yesterday 10:38 PM)

Activities Android Studio May 8 8:43 AM

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

educative-travel-blog > app > src > main > java > com > travelblog > adapter > MainAdapter.java

MainActivity.java activitiy_blog_details.xml MainAdapter.java activity_main.xml LoginActivity.java item_main.xml

app manifests java com.travelblog adapter MainAdapter database http repository BlogDetailsActivity BlogPreferences LoginActivity MainActivity java (generated) res drawable layout activity_login.xml activity_main.xml activitiy_blog_details.xml item_main.xml menu values res (generated) Gradle Scripts

```
71     }
72
73     static class MainViewHolder extends RecyclerView.ViewHolder {
74
75         private TextView textTitle;
76         private TextView textDate;
77         private ImageView imageAvatar;
78         private Blog blog;
79
80         MainViewHolder(@NonNull View itemView, OnItemClickListener listener) {
81             super(itemView);
82             itemView.setOnClickListener(v -> listener.onItemClicked(blog));
83             textTitle = itemView.findViewById(R.id.textTitle);
84             textDate = itemView.findViewById(R.id.textDate);
85             imageAvatar = itemView.findViewById(R.id.imageAvatar);
86         }
87
88         void bindTo(Blog blog) {
89             this.blog = blog;
90             textTitle.setText(blog.getTitle());
91             textDate.setText(blog.getDate());
92
93             Glide.with(itemView)
94                 .load(blog.getAuthor().getAvatarURL())
95                 .transform(new CircleCrop())
96                 .transition(DrawableTransitionOptions.withCrossFade());
97         }
98     }
99 }
```

Event Log Layout Inspector

Failed to start monitoring f99c074a7cf5 (yesterday 10:38 PM)

Activities Android Studio May 8 8:43 AM

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

Travel Blog - MainAdapter.java [Travel_Blog.app]

```
educative-travel-blog > app > src > main > java > com > travelblog > adapter > MainAdapter
```

app manifests java com.travelblog adapter MainAdapter

```
>MainActivity.java activiy_blog_details.xml MainAdapter.java activity_main.xml LoginActivity.java item_main.xml
```

97 } .into(imageAvatar);
98 }
99 }
100 }
101 }
102 }
103 }
104 }
105 }
106 }
107 }
108 }
109 }
110 }
111 }
112 }
113 }
114 }
115 }
116 }
117 }

private static final DiffUtil.ItemCallback<Blog> DIFF_CALLBACK =
new DiffUtil.ItemCallback<Blog>() {
@Override
public boolean areItemsTheSame(@NonNull Blog oldData,
@NonNull Blog newData) {
return oldData.getId() == newData.getId();
}

@Override
public boolean areContentsTheSame(@NonNull Blog oldData,
@NonNull Blog newData) {
return oldData.equals(newData);
};

Resource Manager Build Variants Z-Structure Favorites Gradle Scripts

Event Log Layout Inspector 18:14 LF UTF-8 4 spaces

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Activities Android Studio May 8 8:44 AM

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

Travel Blog - AppDatabase.java [Travel_Blog.app]

```
educative-travel-blog > app > src > main > java > com > travelblog > database > AppDatabase
```

app manifests java com.travelblog database AppDatabase

```
MainActivity.java activiy_blog_details.xml MainAdapter.java AppDatabase.java activity_main.xml LoginActivity.java
```

```
1 package com.travelblog.database;  
2  
3 import ...  
4  
5 @Database(entities = {Blog.class}, version = 1)  
6 public abstract class AppDatabase extends RoomDatabase {  
7     public abstract BlogDAO blogDao();  
8 }  
9  
10 }
```

Resource Manager Build Variants Z-Structure Favorites Gradle Scripts

Event Log Layout Inspector 10:2 LF UTF-8 4 spaces

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Activities Android Studio ▾ May 8 8:44 AM

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

Travel Blog - BlogDAO.java [Travel_Blog.app]

educative-travel-blog > app > src > main > java > com > travelblog > database > BlogDAO

```
1 package com.travelblog.database;
2
3 import ...
4
5 @Dao
6 public interface BlogDAO {
7
8     @Query("SELECT * FROM blog")
9     List<Blog> getAll();
10
11     @Insert
12     void insertAll(List<Blog> blogList);
13
14     @Query("DELETE FROM blog")
15     void deleteAll();
16 }
```

Android Manager Resource Manager Build Variants Favorites

app 1: Project 2: Structure Z: Structure

Java (generated) res drawable layout menu values

activity_login.xml activity_main.xml activitiy_blog_details.xml item_main.xml

Event Log Layout Inspector

10:18 LF UTF-8 4 spaces

Failed to start monitoring f99c074a7cf5 (yesterday 10:38 PM)

Activities Android Studio ▾ May 8 8:44 AM

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

Travel Blog - DatabaseProvider.java [Travel_Blog.app]

educative-travel-blog > app > src > main > java > com > travelblog > database > DatabasePro

```
1 package com.travelblog.database;
2
3 import ...
4
5 public class DatabaseProvider {
6
7     private static volatile AppDatabase instance;
8
9     public static AppDatabase getInstance(Context context) {
10         if (instance == null) {
11             synchronized (DatabaseProvider.class) {
12                 if (instance == null) {
13                     instance = Room
14                         .databaseBuilder(context, AppDatabase.class, "blog-database")
15                         .build();
16                 }
17             }
18         }
19         return instance;
20     }
21
22 }
```

Android Manager Resource Manager Build Variants Favorites

app 1: Project 2: Structure Z: Structure

Java (generated) res drawable layout menu values

activity_login.xml activity_main.xml activitiy_blog_details.xml item_main.xml

Event Log Layout Inspector

7:14 LF UTF-8 4 spaces

Failed to start monitoring f99c074a7cf5 (yesterday 10:38 PM)

Activities Android Studio ▾ May 8 8:44 AM

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

educative-travel-blog app src main java com travelblog http Author

1 package com.travelblog.http;

import ...

public class Author implements Parcelable {

private String name;

private String avatar;

public Author(String name, String avatar) {

this.name = name;

this.avatar = avatar;

}

protected Author(Parcel in) {

name = in.readString();

avatar = in.readString();

}

@Override

public void writeToParcel(Parcel dest, int flags) {

dest.writeString(name);

dest.writeString(avatar);

}

@Override

public String describeContents() {

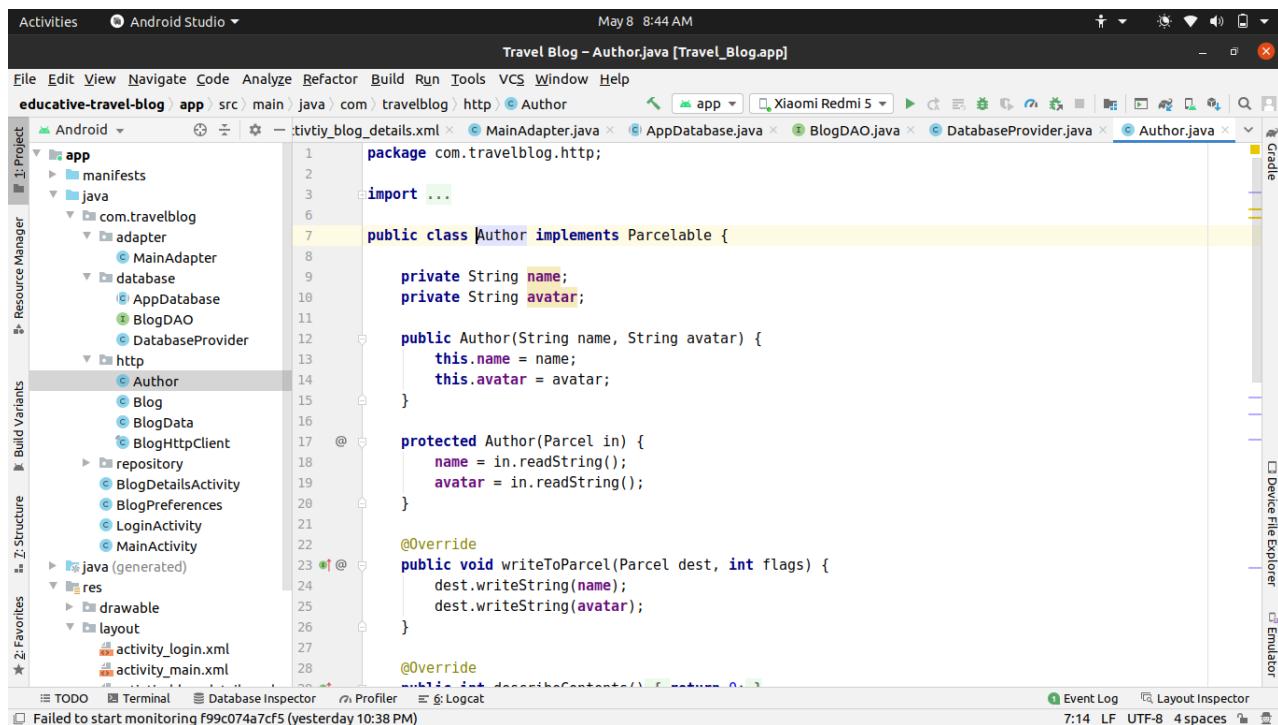
return "Content";

}

Event Log Layout Inspector

7:14 LF UTF-8 4 spaces

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Activities Android Studio ▾ May 8 8:44 AM

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

educative-travel-blog app src main java com travelblog http Author

1 package com.travelblog.http;

public static final Creator<Author> CREATOR = new Creator<Author>() {

@Override

public Author createFromParcel(Parcel in) { return new Author(in); }

@Override

public Author[] newArray(int size) { return new Author[size]; }

};

public String getName() { return name; }

public String getAvatar() { return avatar; }

public String getAvatarURL() {

return BlogHttpClient.BASE_URL + BlogHttpClient.PATH + getAvatar();

}

@Override

public boolean equals(Object o) {

if (this == o) return true;

if (o == null || getClass() != o.getClass()) return false;

Author author = (Author) o;

return Objects.equals(name, author.name) &&

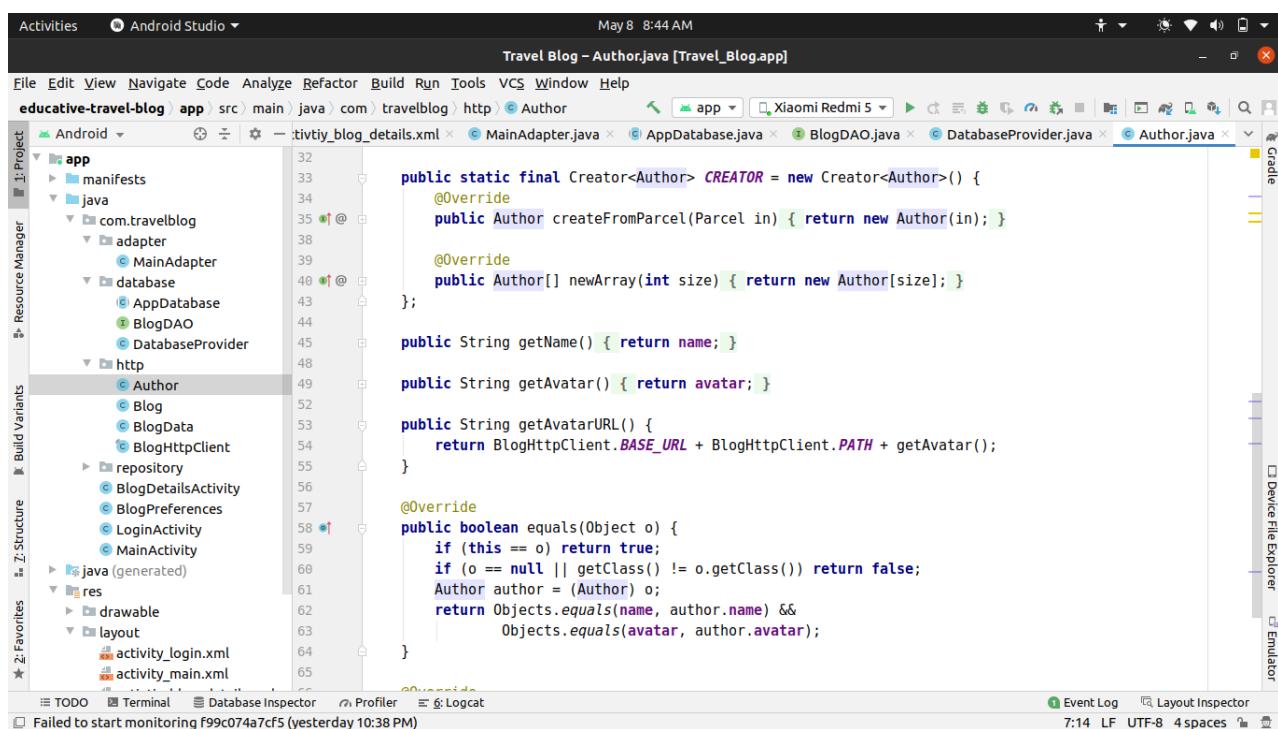
Objects.equals(avatar, author.avatar);

}

Event Log Layout Inspector

7:14 LF UTF-8 4 spaces

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Activities Android Studio ▾ May 8 8:44 AM

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

Travel Blog - Author.java [Travel_Blog.app]

educative-travel-blog app src main java com.travelblog.http Author

Android Project Resource Manager Build Variants Z-Structure Favorites

```
public String getName() { return name; }

public String getAvatar() { return avatar; }

public String getAvatarURL() {
    return BlogHttpClient.BASE_URL + BlogHttpClient.PATH + getAvatar();
}

@Override
public boolean equals(Object o) {
    if (this == o) return true;
    if (o == null || getClass() != o.getClass()) return false;
    Author author = (Author) o;
    return Objects.equals(name, author.name) &&
        Objects.equals(avatar, author.avatar);
}

@Override
public int hashCode() { return Objects.hash(name, avatar); }
```

Java (generated) res drawable layout activity_login.xml activity_main.xml

Event Log Layout Inspector 7:14 LF UTF-8 4 spaces

Failed to start monitoring f99c074a7cf5 (yesterday 10:38 PM)

Activities Android Studio ▾ May 8 8:44 AM

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

Travel Blog - Blog.java [Travel_Blog.app]

educative-travel-blog app src main java com.travelblog.http Blog

Android Project Resource Manager Build Variants Z-Structure Favorites

```
package com.travelblog.http;

import ...

@Entity
public class Blog implements Parcelable {

    private static final SimpleDateFormat dateFormat = new SimpleDateFormat( pattern: "MMMM dd, yyyy" );

    @PrimaryKey
    private int id;
    @Embedded
    private Author author;
    private String title;
    private String date;
    private String image;
    private String description;
    private int views;
    private float rating;

    public Blog(int id, Author author, String title, String date, String image,
               String description, int views, float rating) {
        this.id = id;
        this.author = author;
        this.title = title;
        this.date = date;
    }
}
```

Java (generated) res drawable layout activity_login.xml activity_main.xml

Event Log Layout Inspector 11:14 LF UTF-8 4 spaces

Failed to start monitoring f99c074a7cf5 (yesterday 10:38 PM)

Activities Android Studio ▾ May 8 8:44 AM

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

Travel Blog - Blog.java [Travel_Blog.app]

```
educative-travel-blog app src main java com.travelblog http Blog
```

Android Project 1-Project 2-Favorites

app manifests java com.travelblog adapter database http

MainAdapter.java AppDatabase.java BlogDAO.java DatabaseProvider.java Author.java Blog.java

```
String description, int views, float rating) {  
    this.id = id;  
    this.author = author;  
    this.title = title;  
    this.date = date;  
    this.image = image;  
    this.description = description;  
    this.views = views;  
    this.rating = rating;  
}  
  
protected Blog(Parcel in) {  
    id = in.readInt();  
    title = in.readString();  
    date = in.readString();  
    image = in.readString();  
    description = in.readString();  
    views = in.readInt();  
    rating = in.readFloat();  
    author = in.readParcelable(Author.class.getClassLoader());  
}  
  
@Override  
public void writeToParcel(Parcel dest, int flags) {  
    dest.writeInt(id);  
    dest.writeString(title);  
    dest.writeString(date);  
    dest.writeString(image);  
    dest.writeString(description);  
    dest.writeInt(views);  
    dest.writeFloat(rating);  
    dest.writeParcelable(author, parcelableFlags: 0);  
}  
  
@Override  
public int describeContents() { return 0; }  
  
public static final Creator<Blog> CREATOR = new Creator<Blog>() {  
    @Override  
    public Blog createFromParcel(Parcel in) { return new Blog(in); }  
}  
  
@Override  
public Blog[] newArray(int size) { return new Blog[size]; }  
};  
  
public String getTitle() { return title; }  
  
public String getDate() { return date; }  
  
public Long getDateMillis() {  
    try {  
        Date date = dateFormat.parse(getDate());  
        return date != null ? date.getTime() : null;  
    } catch (ParseException e) {  
        e.printStackTrace();  
    }  
}
```

Event Log Layout Inspector 11:14 LF UTF-8 4 spaces

Failed to start monitoring f99c074a7cf5 (yesterday 10:38 PM)

Activities Android Studio ▾ May 8 8:44 AM

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

Travel Blog - Blog.java [Travel_Blog.app]

```
educative-travel-blog app src main java com.travelblog http Blog
```

Android Project 1-Project 2-Favorites

app manifests java com.travelblog adapter database http

MainAdapter.java AppDatabase.java BlogDAO.java DatabaseProvider.java Author.java Blog.java

```
dest.writeFloat(rating);  
dest.writeParcelable(author, parcelableFlags: 0);  
}  
  
@Override  
public int describeContents() { return 0; }  
  
public static final Creator<Blog> CREATOR = new Creator<Blog>() {  
    @Override  
    public Blog createFromParcel(Parcel in) { return new Blog(in); }  
}  
  
@Override  
public Blog[] newArray(int size) { return new Blog[size]; }  
};  
  
public String getTitle() { return title; }  
  
public String getDate() { return date; }  
  
public Long getDateMillis() {  
    try {  
        Date date = dateFormat.parse(getDate());  
        return date != null ? date.getTime() : null;  
    } catch (ParseException e) {  
        e.printStackTrace();  
    }  
}
```

Event Log Layout Inspector 11:14 LF UTF-8 4 spaces

Failed to start monitoring f99c074a7cf5 (yesterday 10:38 PM)

Activities Android Studio May 8 8:44 AM

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

educative-travel-blog app src main java com travelblog http Blog

1-Project Resource Manager Build Variants Z-Structure Favorites

```
public float getRating() { return rating; }

public Author getAuthor() { return author; }

public void setAuthor(Author author) { this.author = author; }

public int getId() { return id; }

@Override
public boolean equals(Object o) {
    if (this == o) return true;
    if (o == null || getClass() != o.getClass()) return false;
    Blog blog = (Blog) o;
    return views == blog.views &&
        Float.compare(blog.rating, rating) == 0 &&
        Objects.equals(id, blog.id) &&
        Objects.equals(author, blog.author) &&
        Objects.equals(title, blog.title) &&
        Objects.equals(date, blog.date) &&
        Objects.equals(image, blog.image) &&
        Objects.equals(description, blog.description);
}

@Override
public int hashCode() {
```

Event Log Layout Inspector

Failed to start monitoring f99c074a7cf5 (yesterday 10:38 PM)

Activities Android Studio May 8 8:44 AM

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

educative-travel-blog app src main java com travelblog http Blog

1-Project Resource Manager Build Variants Z-Structure Favorites

```
@Override
public boolean equals(Object o) {
    if (this == o) return true;
    if (o == null || getClass() != o.getClass()) return false;
    Blog blog = (Blog) o;
    return views == blog.views &&
        Float.compare(blog.rating, rating) == 0 &&
        Objects.equals(id, blog.id) &&
        Objects.equals(author, blog.author) &&
        Objects.equals(title, blog.title) &&
        Objects.equals(date, blog.date) &&
        Objects.equals(image, blog.image) &&
        Objects.equals(description, blog.description);
}

@Override
public int hashCode() {
    return Objects.hash(id, author, title, date, image, description, views, rating);
}
```

Event Log Layout Inspector

Failed to start monitoring f99c074a7cf5 (yesterday 10:38 PM)

Activities Android Studio ▾ May 8 8:44 AM

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

educative-travel-blog app src main java com travelblog http BlogData

app manifests java com.travelblog adapter MainAdapter database AppDatabase BlogDAO DatabaseProvider http Author Blog BlogData BlogHttpClient repository BlogDetailsActivity BlogPreferences LoginActivity MainActivity java (generated) res drawable layout activity_login.xml activity_main.xml

1 package com.travelblog.http;

2

3 import ...

4

5 public class BlogData {

6

7 private List<Blog> data;

8

9

10 public List<Blog> getData() { return data != null ? data : new ArrayList<>(); }

11 }

12

13

14

15

16

17

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Event Log Layout Inspector

6:14 LF UTF-8 4 spaces

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Activities Android Studio ▾ May 8 8:44 AM

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

educative-travel-blog app src main java com travelblog http BlogHttpClient

app manifests java com.travelblog adapter MainAdapter database AppDatabase BlogDAO DatabaseProvider http Author Blog BlogData BlogHttpClient repository BlogDetailsActivity BlogPreferences LoginActivity MainActivity java (generated) res drawable layout activity_login.xml activity_main.xml

1 package com.travelblog.http;

2

3 import ...

4

5 public final class BlogHttpClient {

6

7 public static final BlogHttpClient INSTANCE = new BlogHttpClient();

8

9 public static final String BASE_URL = "https://bitbucket.org/dmytrodanylyk/travel-blog-resources";

10 public static final String PATH = "/raw/3eede691af3e8ff795bf6d31efffb873d484877be";

11 private static final String BLOG_ARTICLES_URL = BASE_URL + PATH + "/blog_articles.json";

12

13 private OkHttpClient client;

14 private Gson gson;

15

16 private BlogHttpClient() {

17 client = new OkHttpClient();

18 gson = new Gson();

19 }

20

21 public List<Blog> loadBlogArticles() {

22 Request request = new Request.Builder()

23 .get()

24 .url(BLOG_ARTICLES_URL)

25 .build();

26 }

27

28

29

30

31

32

33

Event Log Layout Inspector

12:20 LF UTF-8 4 spaces

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Activities Android Studio ▾ May 8 8:44 AM

Travel Blog - BlogHttpClient.java [Travel_Blog.app]

```
File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help
```

educative-travel-blog app src main java com.travelblog http

BlogDAO.java DatabaseProvider.java Author.java Blog.java BlogData.java BlogHttpClient.java

Android Project 1-Project 2-Project Resource Manager Build Variants Z-Structure Favorites

app manifests java com.travelblog adapter database AppDatabase BlogDAO DatabaseProvider http Author Blog BlogData BlogHttpClient repository BlogDetailsActivity BlogPreferences LoginActivity MainActivity

java (generated) res drawable layout activity_login.xml activity_main.xml

30 .get()
.url(BLOG_ARTICLES_URL)
.build();

try {
 Response response = client.newCall(request).execute();
 ResponseBody responseBody = response.body();
 if (responseBody != null) {
 String json = responseBody.string();
 BlogData blogData = gson.fromJson(json, BlogData.class);
 if (blogData != null) {
 return blogData.getData();
 }
 }
} catch (IOException e) {
 Log.e(tag: "BlogHttpClient", msg: "Error loading blog articles", e);
}
return null;

Event Log Layout Inspector 12:20 LF UTF-8 4 spaces

Failed to start monitoring f99c074a7cf5 (yesterday 10:38 PM)

Activities Android Studio ▾ May 8 8:44 AM

Travel Blog - BlogRepository.java [Travel_Blog.app]

```
File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help
```

educative-travel-blog app src main java com.travelblog repository

BlogDAO.java Author.java Blog.java BlogData.java BlogHttpClient.java BlogRepository.java

Android Project 1-Project 2-Project Resource Manager Build Variants Z-Structure Favorites

app manifests java com.travelblog adapter database AppDatabase BlogDAO DatabaseProvider http Author Blog BlogData BlogHttpClient repository

BlogRepository DataFromDatabaseCallback DataFromNetworkCallback BlogDetailsActivity BlogPreferences LoginActivity MainActivity

java (generated) res drawable

1 package com.travelblog.repository;
2 import ...
3
4 public class BlogRepository {
5 private BlogHttpClient httpClient;
6 private AppDatabase database;
7 private Executor executor;
8
9 @
10 public BlogRepository(Context context) {
11 httpClient = BlogHttpClient.INSTANCE;
12 database = DatabaseProvider.getInstance(context.getApplicationContext());
13 executor = Executors.newSingleThreadExecutor();
14 }
15
16 public void loadDataFromDatabase(DataFromDatabaseCallback callback) {
17 executor.execute(() -> callback.onSuccess(database.blogDao().getAll()));
18 }
19
20 public void loadDataFromNetwork(DataFromNetworkCallback callback) {
21 executor.execute(() -> {
22 List<Blog> blogList = httpClient.loadBlogArticles();
23 if (blogList == null) {
24 callback.onError();
25 }
26 });
27 }
28
29}

Event Log Layout Inspector 11:14 LF UTF-8 4 spaces

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Activities Android Studio May 8 8:44 AM

Travel Blog - BlogRepository.java [Travel_Blog.app]

```
File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help
icative-travel-blog > app > src > main > java > com > travelblog > repository > BlogRepository
```

app

```
Android 1-Project
  app
    manifests
    java
      com.travelblog
        adapter
          MainAdapter
        database
          AppDatabase
          BlogDAO
          DatabaseProvider
        http
          Author
          Blog
          BlogData
          BlogHttpClient
        repository
          BlogRepository
          DataFromDatabaseCallback
          DataFromNetworkCallback
        BlogDetailsActivity
        BlogPreferences
        LoginActivity
        MainActivity
      java (generated)
      res
      drawable
```

Resource Manager Build Variants Z-Structure Favorites

```
public void loadDataFromDatabase(DataFromDatabaseCallback callback) {
    executor.execute(() -> callback.onSuccess(database.blogDao().getAll()));
}

public void loadDataFromNetwork(DataFromNetworkCallback callback) {
    executor.execute(() -> {
        List<Blog> blogList = httpClient.loadBlogArticles();
        if (blogList == null) {
            callback.onError();
        } else {
            BlogDAO blogDAO = database.blogDao();
            blogDAO.deleteAll();
            blogDAO.insertAll(blogList);
            callback.onSuccess(blogList);
        }
    });
}
```

Event Log Layout Inspector 11:14 LF UTF-8 4 spaces

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Activities Android Studio May 8 8:44 AM

Travel Blog - DataFromDatabaseCallback.java [Travel_Blog.app]

```
File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help
el-blog > app > src > main > java > com > travelblog > repository > DataFromDatabaseCallback
```

app

```
Android 1-Project
  app
    manifests
    java
      com.travelblog
        adapter
          MainAdapter
        database
          AppDatabase
          BlogDAO
          DatabaseProvider
        http
          Author
          Blog
          BlogData
          BlogHttpClient
        repository
          BlogRepository
          DataFromDatabaseCallback
          DataFromNetworkCallback
        BlogDetailsActivity
        BlogPreferences
        LoginActivity
        MainActivity
      java (generated)
      res
      drawable
```

Resource Manager Build Variants Z-Structure Favorites

```
package com.travelblog.repository;
import ...

public interface DataFromDatabaseCallback {
    void onSuccess(List<Blog> blogList);
}
```

Event Log Layout Inspector 7:18 LF UTF-8 4 spaces

Failed to start monitoring f99c074a7cf5 (yesterday 10:38 PM)

The screenshot shows the Android Studio interface with the following details:

- Title Bar:** Activities - Android Studio - Travel Blog - DataFromNetworkCallback.java [Travel_Blog.app]
- Toolbar:** File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help
- Project Structure:** Shows the project tree under "app". The "repository" package contains "DataFromNetworkCallback.java". Other packages like "com.travelblog", "http", and "database" are also visible.
- Code Editor:** Displays the Java code for `DataFromNetworkCallback`. The code defines a public interface with two methods: `onSuccess(List<Blog> blogList)` and `onError()`.
- Bottom Status Bar:** Failed to start monitoring f99c074a7cf5 (yesterday 10:38 PM)
- Bottom Right:** Event Log, Layout Inspector, Emulator, and other developer tools.

```
package com.travelblog.repository;

import ...

public interface DataFromNetworkCallback {
    void onSuccess(List<Blog> blogList);

    void onError();
}
```

```
package com.travelblog;

import ...

public class BlogDetailsActivity extends AppCompatActivity {

    private static final String EXTRAS_BLOG = "EXTRAS_BLOG";

    private TextView textTitle;
    private TextView textDate;
    private TextView textAuthor;
    private TextView textRating;
    private TextView textDescription;
    private TextView textViews;
    private RatingBar ratingBar;
    private ImageView imageAvatar;
    private ImageView imageMain;
    private ProgressBar progressBar;

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

        imageMain = findViewById(R.id.imageMain);
        imageAvatar = findViewById(R.id.imageAvatar);
    }
}
```

The screenshot shows the Android Studio interface with the following details:

- Title Bar:** Activities, Android Studio, May 8 8:45 AM, Travel Blog - BlogDetailsActivity.java [Travel_Blog.app]
- Toolbar:** File, Edit, View, Navigate, Code, Analyze, Refactor, Build, Run, Tools, VCS, Window, Help.
- Project Structure:** Shows the project structure under "educative-travel-blog" including modules like app, src, main, java, com, travelblog, and files like BlogDetailsActivity.java, BlogRepository.java, DataFromDatabaseCallback.java, DataFromNetworkCallback.java, and BlogDetailsActivity.java.
- Code Editor:** The code for BlogDetailsActivity.java is displayed. It includes methods for initializing views and showing blog data, as well as Glide image loading code.
- Side Panels:** Resource Manager, Build Variants, Z-Structure, Favorites, Device File Explorer.
- Bottom Navigation:** TODO, Terminal, Database Inspector, Profiler, Logcat, Event Log, Layout Inspector.

```
textRating = findViewById(R.id.textRating);
textViews = findViewById(R.id.textViews);
textDescription = findViewById(R.id.textDescription);
ratingBar = findViewById(R.id.ratingBar);
progressBar = findViewById(R.id.progressBar);

showData(getIntent().getExtras().getParcelable(EXTRAS_BLOG));
}

private void showData(Blog blog) {
    progressBar.setVisibility(View.GONE);
    textTitle.setText(blog.getTitle());
    textDate.setText(blog.getDate());
    textAuthor.setText(blog.getAuthor().getName());
    textRating.setText(String.valueOf(blog.getRating()));
    textViews.setText(String.format("%d views", blog.getViews()));
    textDescription.setText(Html.fromHtml(blog.getDescription()));
    ratingBar.setRating(blog.getRating());
    ratingBar.setVisibility(View.VISIBLE);

    Glide.with( activity: this ) RequestManager
        .load(blog.getImageURL()) RequestBuilder<Drawable>
        .transition(DrawableTransitionOptions.withCrossFade())
        .into(imageMain);

    Glide.with( activity: this ) RequestManager
        .load(blog.getAuthor().getAvatarURL()) RequestBuilder<Drawable>
        .transition(DrawableTransitionOptions.withCrossFade())
        .into(authorImage);
}
```

Activities Android Studio May 8 8:45 AM

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

educative-travel-blog > app > src > main > java > travelblog > BlogDetailsActivity.java [Travel_Blog.app]

Android Project Resource Manager Build Variants Favorites Z-Structure Event Log Layout Inspector Device File Explorer Emulator

```
Glide.with( activity: this ) RequestManager
    .load(blog.getImageURL() RequestBuilder<Drawable>
        .transition(DrawableTransitionOptions.withCrossFade())
        .into(imageMain);

Glide.with( activity: this ) RequestManager
    .load(blog.getAuthor().getAvatarURL() RequestBuilder<Drawable>
        .transform(new CircleCrop())
        .transition(DrawableTransitionOptions.withCrossFade())
        .into(imageAvatar));

public static void startBlogDetailsActivity(Activity activity, Blog blog) {
    Intent intent = new Intent(activity, BlogDetailsActivity.class);
    intent.putExtra(EXTRAS_BLOG, blog);
    activity.startActivity(intent);
}
```

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Activities Android Studio May 8 8:45 AM

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

educative-travel-blog > app > src > main > java > travelblog > BlogPreferences.java [Travel_Blog.app]

Android Project Resource Manager Build Variants Favorites Z-Structure Event Log Layout Inspector Device File Explorer Emulator

```
package com.travelblog;

import ...

public class BlogPreferences {

    private static final String KEY_LOGIN_STATE = "key_login_state";

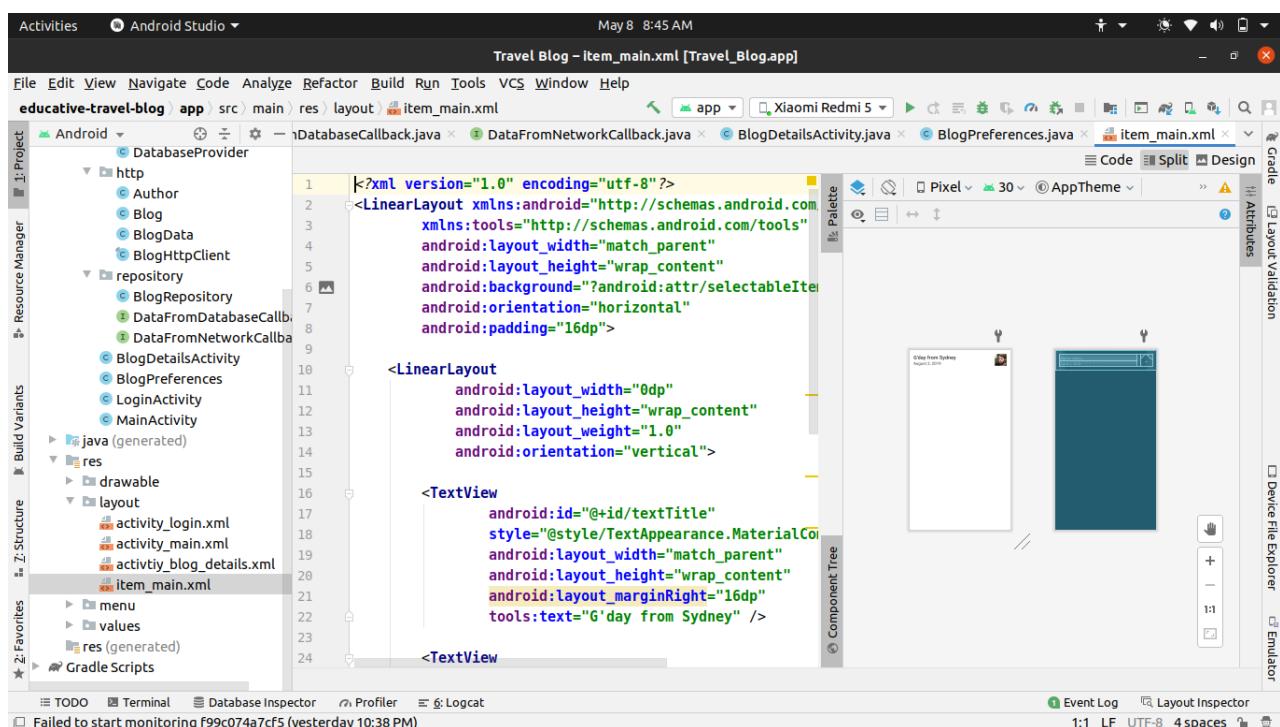
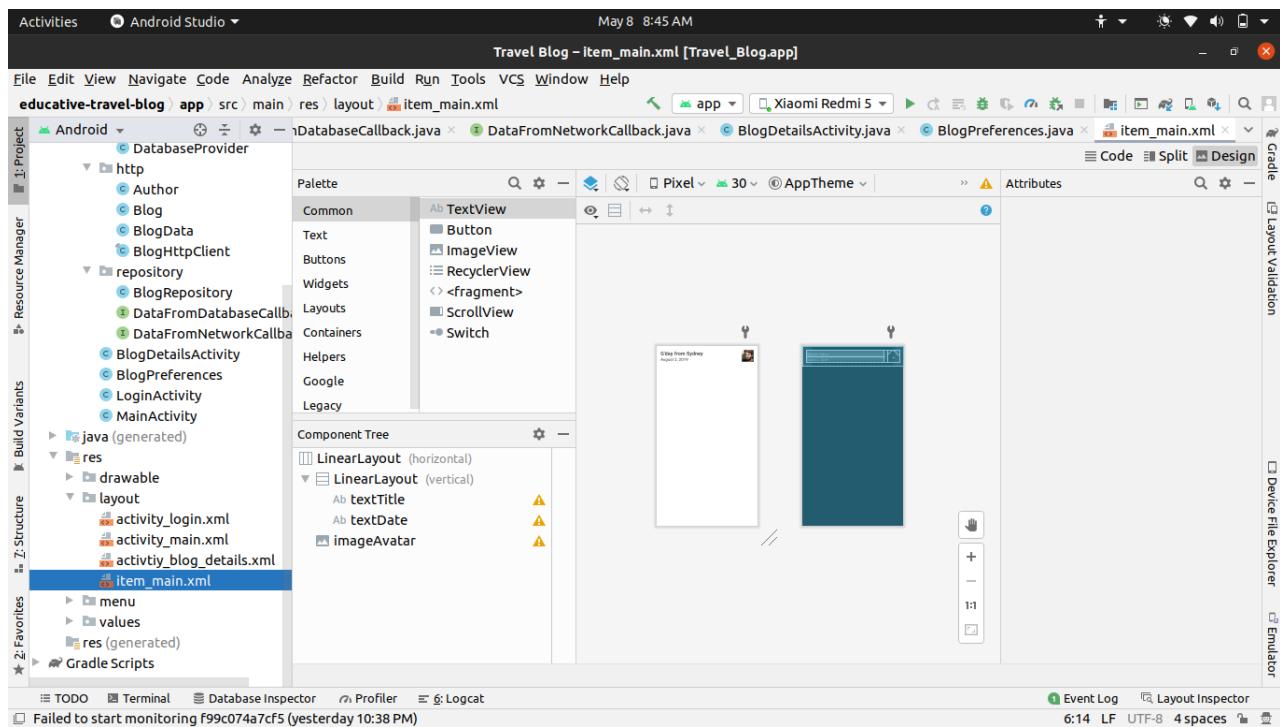
    private SharedPreferences preferences;

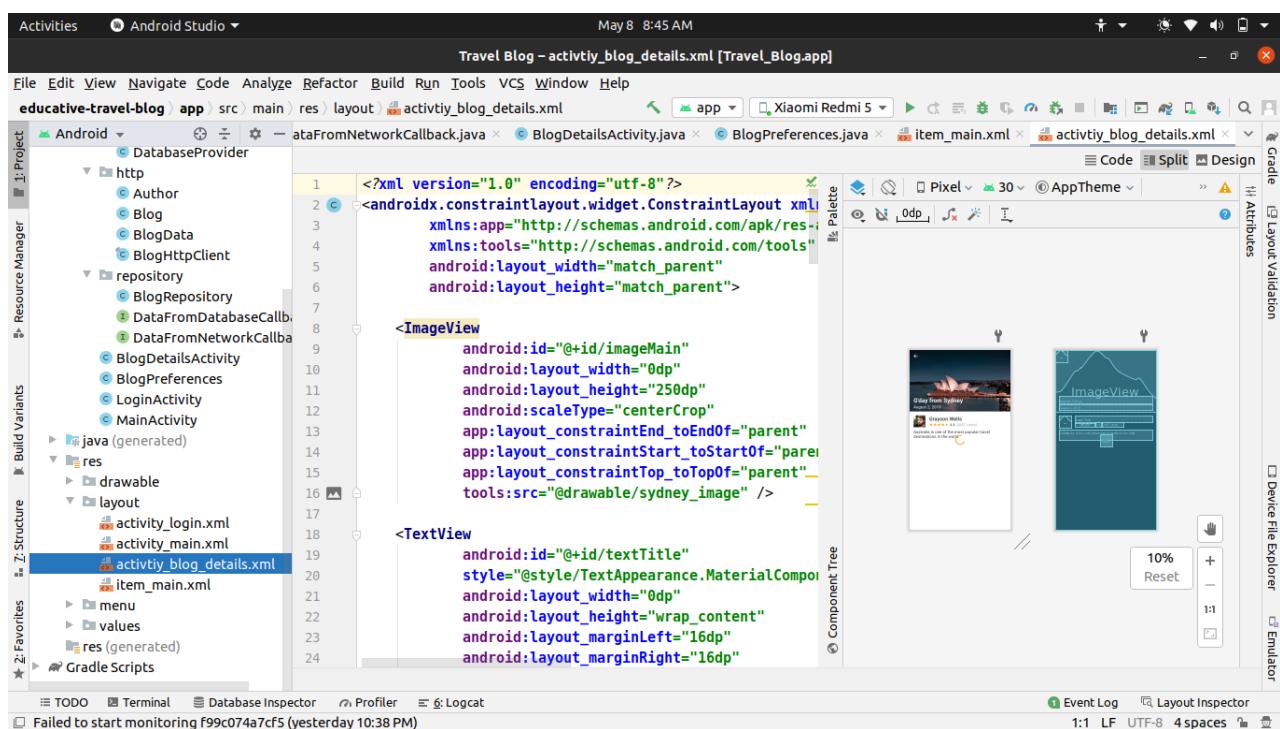
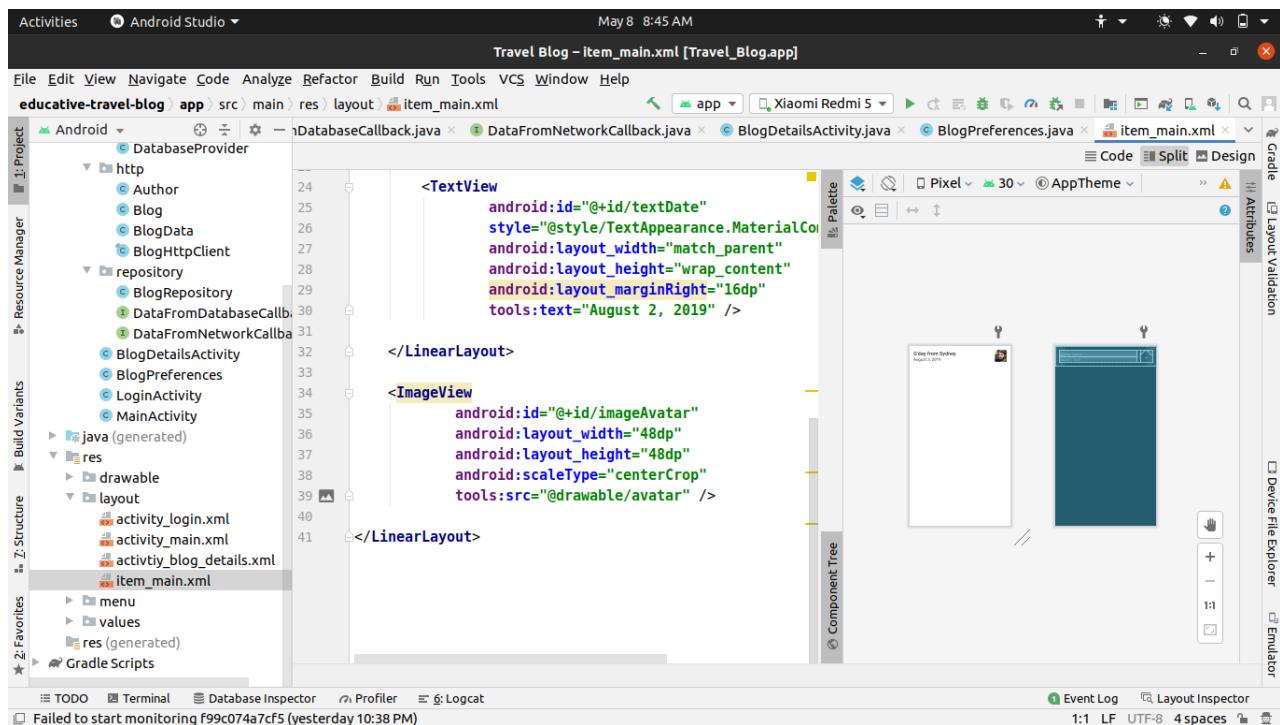
    BlogPreferences(Context context) {
        preferences =
            context.getSharedPreferences( s: "travel-blog", Context.MODE_PRIVATE );
    }

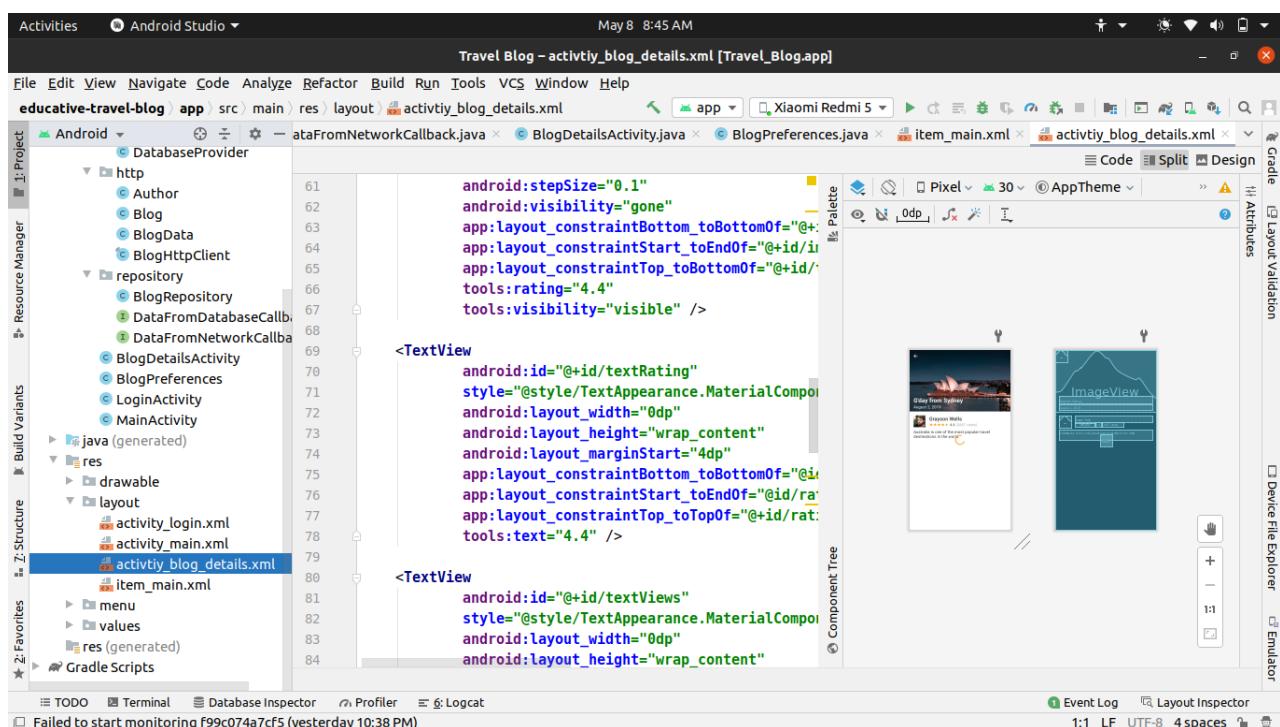
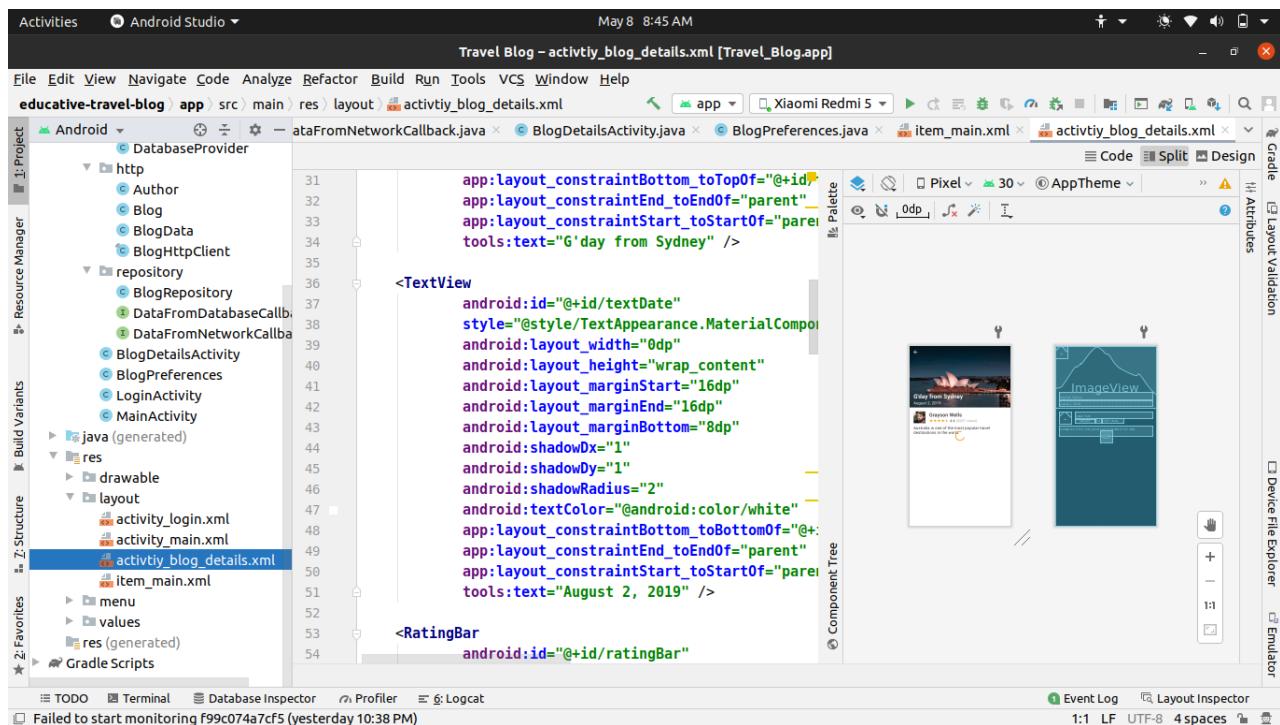
    public boolean isLoggedIn() { return preferences.getBoolean(KEY_LOGIN_STATE, b: false); }

    public void setLoggedIn(boolean loggedIn) {
        preferences.edit().putBoolean(KEY_LOGIN_STATE, loggedIn).apply();
    }
}
```

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educative-travel-blog app src main res layout activiy_blog_details.xml

Android Project Resource Manager Build Variants Z-Structure Favorites Gradle Scripts

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activiy_blog_details.xml

```
<ImageView  
    android:id="@+id/imageBack"  
    android:layout_width="48dp"  
    android:layout_height="48dp"  
    android:scaleType="centerInside"  
    app:layout_constraintStart_toStartOf="parent"  
    app:layout_constraintTop_toTopOf="parent"  
    app:srcCompat="@drawable/ic_arrow_white_24dp" />  
  
<ImageView  
    android:id="@+id/imageAvatar"  
    android:layout_width="48dp"  
    android:layout_height="48dp"  
    android:layout_marginStart="16dp"  
    android:layout_marginTop="16dp"  
    android:scaleType="centerCrop"  
    app:layout_constraintStart_toStartOf="parent"  
    app:layout_constraintTop_toBottomOf="@+id/textDescription"  
    tools:src="@drawable/avatar" />  
  
<TextView  
    android:id="@+id/textDescription"  
    style="@style/TextAppearance.MaterialComponents.Typography.Display1" />
```

Component Tree

Event Log Layout Inspector 1:1 LF UTF-8 4 spaces

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educative-travel-blog app src main res layout activiy_blog_details.xml

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Code Split Design Attributes Layout Validation Device File Explorer Emulator

activiy_blog_details.xml

```
        android:layout_height="wrap_content"  
        android:layout_marginStart="16dp"  
        android:layout_marginEnd="16dp"  
        app:layout_constraintEnd_toEndOf="parent"  
        app:layout_constraintStart_toEndOf="@+id/imageAvatar"  
        app:layout_constraintTop_toTopOf="@+id/imageAvatar"  
        tools:text="Grayson Wells" />  
  
<ProgressBar  
    android:id="@+id/progressBar"  
    android:layout_width="wrap_content"  
    android:layout_height="wrap_content"  
    app:layout_constraintBottom_toBottomOf="parent"  
    app:layout_constraintEnd_toEndOf="parent"  
    app:layout_constraintStart_toStartOf="parent"  
    app:layout_constraintTop_toTopOf="parent" />
```

Component Tree

Event Log Layout Inspector 1:1 LF UTF-8 4 spaces

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