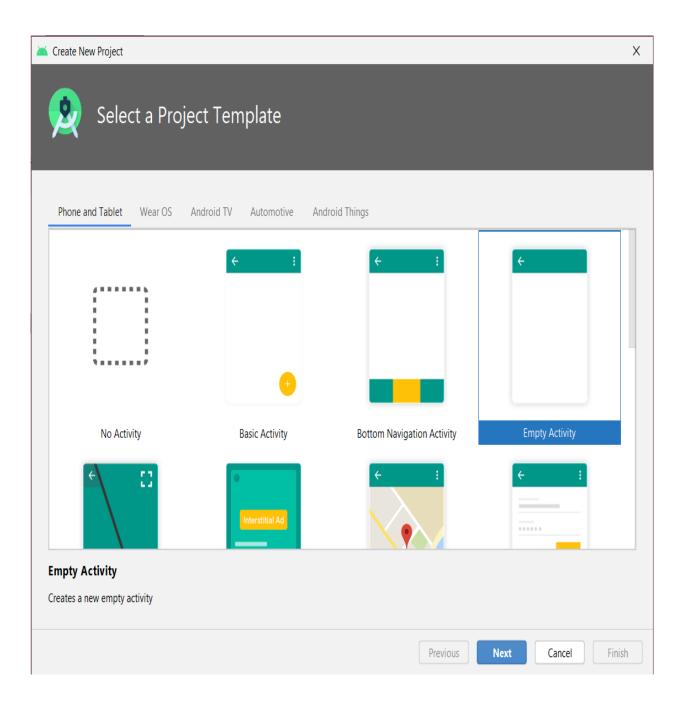
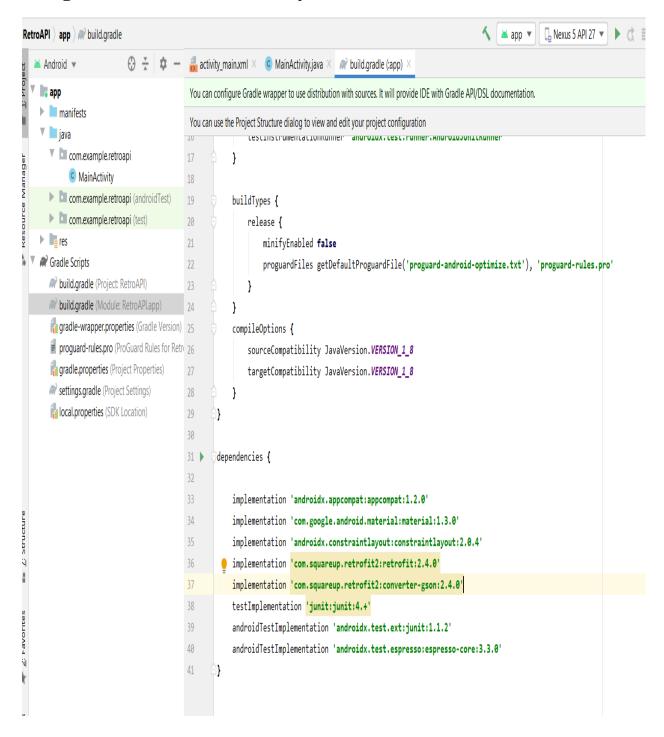
Extra Credit Lab Mobile Application Development – 2 Rebecca Moses Dmello 300322984

I am confirming that I have completed this classwork assignment completely based on the requirements and it is working and fully functional.

Step 1: Create a New Project and Select Empty Activity



Step 2: Open build.gradle file inside the Gradle Scripts folder and add following line in order to allow your application to use retrofill and gson converter and click sync now.



Step 3: Create a new Java class by right clicking on the package -> new -> java class and name it as Post and add the following code in it.

```
🚚 AndroidManifest.xml × 🌏 activity_main.xml ×
                                            ■ MainActivity.java ×
                                                                 Post.java ×
        package com.example.retroapi;
        import com.google.gson.annotations.SerializedName;
 4
        public class Post {
            private int userId;
 7
            private int id;
 8
 9
            private String title;
10
11
12
            @SerializedName("body")
            private String text;
13
14
            public int getUserId() {
16
                return userId;
17
18
            public int getId() {
19
20
                return id;
21
22
23
            public String getTitle() {
24
                return title;
25
26
27
            public String getText() {
                return text;
29
        }
30
```

Step 4: Create a new Interface by right clicking on the package -> new -> class and name it as JsonPlaceHolderApi and select interface add the following code in it.

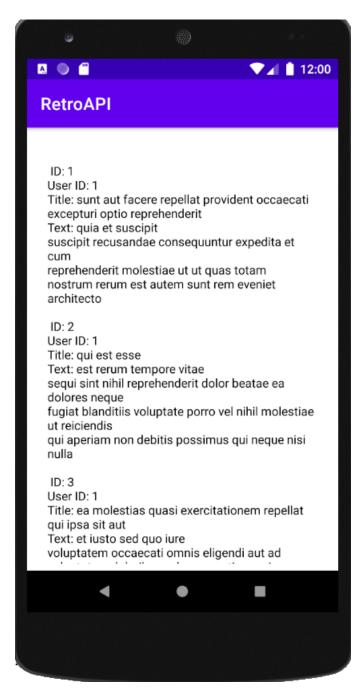
```
🚚 AndroidManifest.xml 🗡 🍶 activity_main.xml 🗡 💿 MainActivity.java 🗡 🕕 JsonPlaceHolderApi.java 🗡
        package com.example.retroapi;
 2
        import java.util.List;
 3
        import retrofit2.Call;
 4
        import retrofit2.http.GET;
 5
        public interface JsonPlaceHolderApi {
 6
 7
            //posts bcz in the url - https://jsonplaceholder.typicode.com/posts
 8
 9
            @GET("posts")
10
            Call<List<Post>> getPosts();
11
12
       }
13
14
```

Step 5: Add following code in MainActivity.java class and select

```
👬 AndroidManifest.xml 🗡 👸 activity_main.xml 🗡 🏮 MainActivity.java 🗡 🕕 JsonPlaceHolderApi.java 🗡
       import retrofit2.Retrofit;
11
       import retrofit2.converter.gson.GsonConverterFactory;
       public class MainActivity extends AppCompatActivity {
13
           private TextView textViewResult;
4
           @Override
           protected void onCreate(Bundle savedInstanceState) {
               super.onCreate(savedInstanceState);
16
               setContentView(R.layout.activity_main);
               textViewResult = findViewById(R.id.text_view_result);
19
               Retrofit retrofit = new Retrofit.Builder().baseUrl("https://jsonplaceholder.typicode.com/")
                        .addConverterFactory(GsonConverterFactory.create()).build();
20
               JsonPlaceHolderApi jsonPlaceHolderApi = retrofit.create(JsonPlaceHolderApi.class);
21
               Call<List<Post>> call = jsonPlaceHolderApi.getPosts();
               call.enqueue(new Callback<List<Post>>() {
24
                   @Override
                   public void onResponse(Call<List<Post>> call, Response<List<Post>> response) {
25
26
                       if(!response.isSuccessful()){
                            textViewResult.setText("Code "+ response.code());
28
                            return;
29
30
                       List<Post> posts = response.body();
31
                        for(Post post: posts){
                            String content ="";
                            content += "ID: "+post.getId()+"\n";
33
                            content += "User ID: "+post.getUserId() +"\n";
                            content += "Title: " +post.getTitle() +"\n";
                            content += "Text: " +post.getText() + "\n";
36
                            textViewResult.append(" \n "+content);
38
```

```
AndroidManifest.xml X
                       🌄 activity_main.xml 🗡 🌀 MainActivity.java 🗡 💶 JsonPlaceHolderApi.java 🗡
                Retrofit retrofit = new Retrofit.Builder().baseUrl("https://jsonplaceholder.typicode.com/")
19
20
                        .addConverterFactory(GsonConverterFactory.create()).build();
21
                JsonPlaceHolderApi jsonPlaceHolderApi = retrofit.create(JsonPlaceHolderApi.class);
                Call<List<Post>> call = jsonPlaceHolderApi.getPosts();
22
                call.enqueue(new Callback<List<Post>>() {
24
                    @Override
25
                    public void onResponse(Call<List<Post>> call, Response<List<Post>> response
26
                        if(!response.isSuccessful()){
                            textViewResult.setText("Code "+ response.code());
27
28
                            return;
29
30
                        List<Post> posts = response.body();
31
                        for(Post post: posts){
                            String content ="";
33
                            content += "ID: "+post.getId()+"\n";
34
                            content += "User ID: "+post.getUserId() +"\n";
                            content += "Title: " +post.getTitle() +"\n";
35
36
                            content += "Text: " +post.getText() + "\n";
37
                            textViewResult.append(" \n "+content);
38
39
40
41
                    @Override
                    public void onFailure(Call<List<Post>> call, Throwable t) {
42 📭
43
                        textViewResult.setText(t.getMessage());
                });
45
46
```

Step 6: Run your emulator to observe the animations



References:

Retrofit Tutorial

https://www.youtube.com/watch?v=4JGvDUlfk7Y

http://jsonplaceholder.typicode.com/posts