

## #ICP 10

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Github link: [https://github.com/Vishnumonish/web-development/tree/main/ICP\\_10](https://github.com/Vishnumonish/web-development/tree/main/ICP_10)

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<https://github.com/Rajendraganji/WebCourse2022/tree/main/WebPart/ICP10>

- 1) In the Android Studio, first we had created an empty project with the name of ICP10
- 2) Next, we added two dependencies which are retrofit2.9.0, converter-gson:2.9.0.
- 3) After creating this ICP10, then we had created a new java class file with the name User.java, which consists of id and username with getters and setters and which acts as a data transfer object.
- 4) Added a textfield with id of 'text1' in the layout and added a nested scroll view to the text1 which gives the way to scroll up and down.
- 5) In the onCreate function in the MainActivity.java, retrofit API is used consumed the GitHub rest API which fetches the user's data, Following is the logic to call the URL from the Android studio.

```
TextView textView;  
  
@Override  
protected void onCreate(Bundle savedInstanceState) {  
    super.onCreate(savedInstanceState);  
    setContentView(R.layout.activity_main);  
  
    textView = findViewById(R.id.text1);  
    Retrofit retrofit = new Retrofit.Builder()  
        .baseUrl("https://api.github.com/")  
        .addConverterFactory(GsonConverterFactory.create())  
        .build();  
  
    ApiCollections apiCollections = retrofit.create(ApiCollections.class);  
    Call< List<User>> usersCall = apiCollections.getData();  
  
    usersCall.enqueue(new Callback<List<User>>() {
```

6) On Successful call of API, the response is collected in the onResponse method.

7) And it is casted to User class which is collected in the list.

8) The collected list is then displayed in the text view which is present in the MainActivity.xml and displayed to the user.

9) Following is the output image after making successful API (GitHub) call which has the retrieved user data:



