MOBILE PROGRAMMING – ICP10

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In this ICP, we have done the following:

1. Initially, we have created an empty project and named it has ICP10 in the studio.
2. Then we have added two dependencies retrofit2.9.0 and converter-gson:2.9.0 which are required for making api call.
3. In this ICP, we have added a new java class file with the name User.java which has id, username with getters and setters and acts as a data transfer object
4. In the layout we have added a text field with id of 'text' and then added a nested scroll view to the text which gives the way to scroll up and down.
5. In the onCreate function in the MainActivity.java, retrofit api will consume the github rest api to fetch the user's data.
6. On Successful api call, response is received in the onResponse method and then it casted to User class which is collected in the list.
7. The retrieved list is displayed in the text view and displayed to the user.

Below is the main logic which is used to make an api call in the android studio

```java
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();
```

Below is the output image with the user data retrieved from the successful api call