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**Date : 09/24/2023**

**Professor Name : Michael Tizio**

**Department : Computer Science**

**University Name : Boston University**

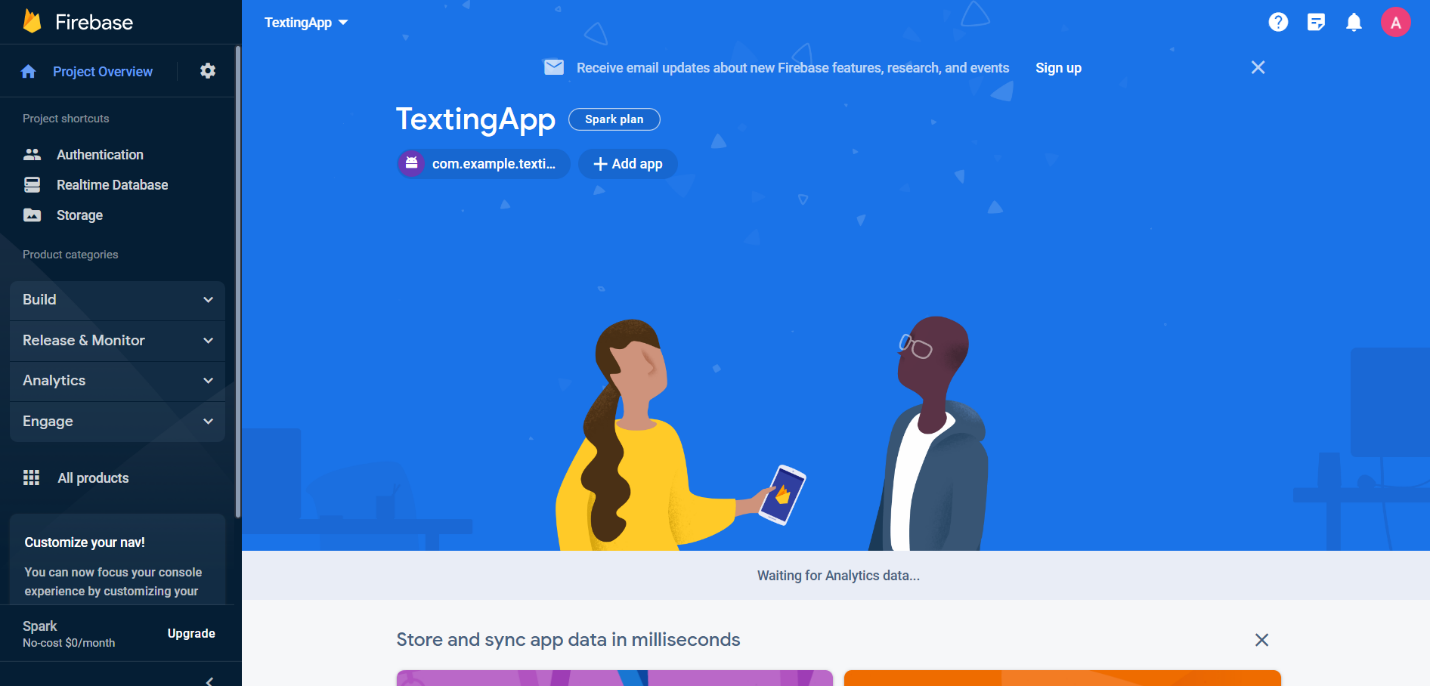
**Github link :-** <https://github.com/CS683/project-aayush-raghuvanshi>

**CS683 Project Assignment**

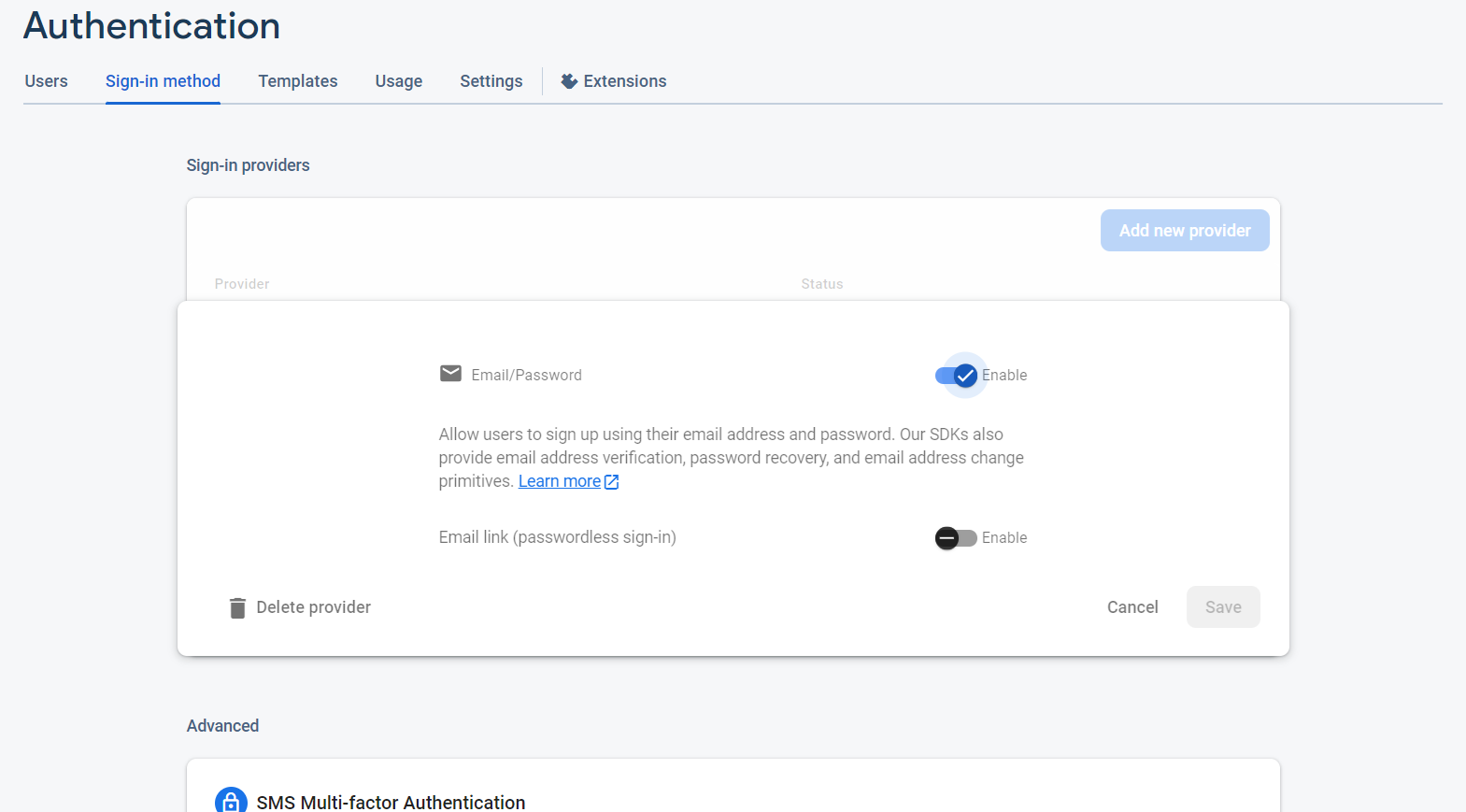
**Progress Report   
Texting App  
Aayush Raghuvanshi**

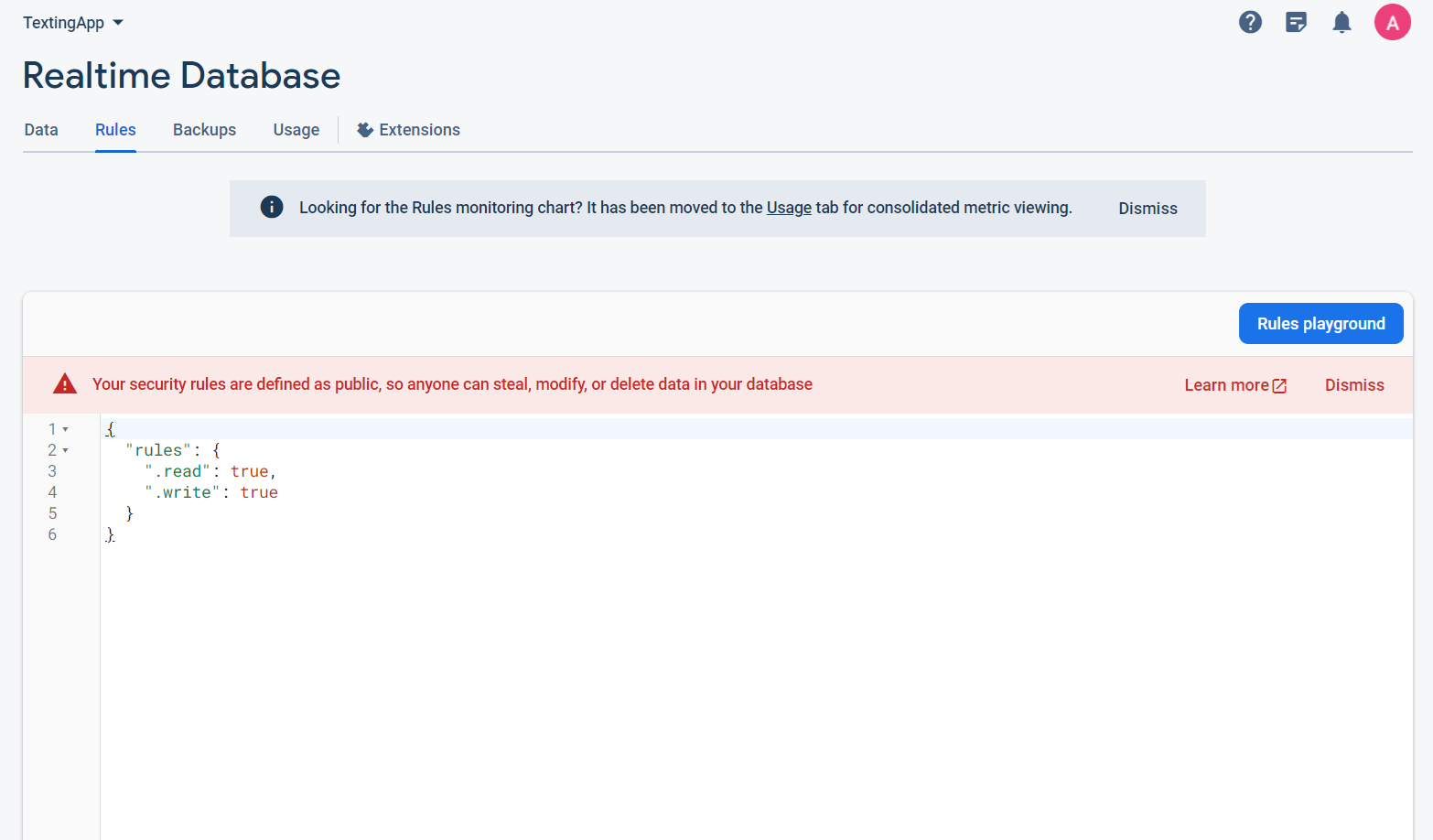
**Summary :**

* I am making significant progress in the development of my Android texting app. In this reporting period, I focused on integrating Firebase for real-time messaging capabilities and setting up the necessary fragments for a smooth user experience.

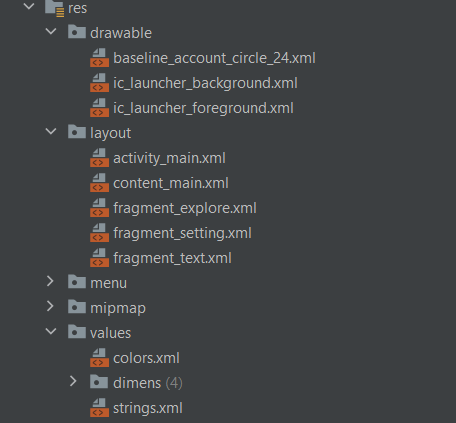
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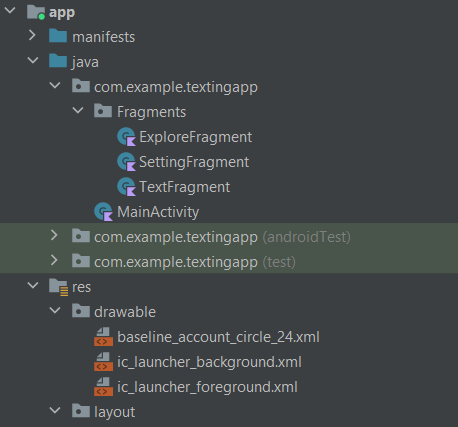
* Enabled user authentication and modified the security rules for Firebase Realtime Database (not storage) are important steps to secure the app's data.

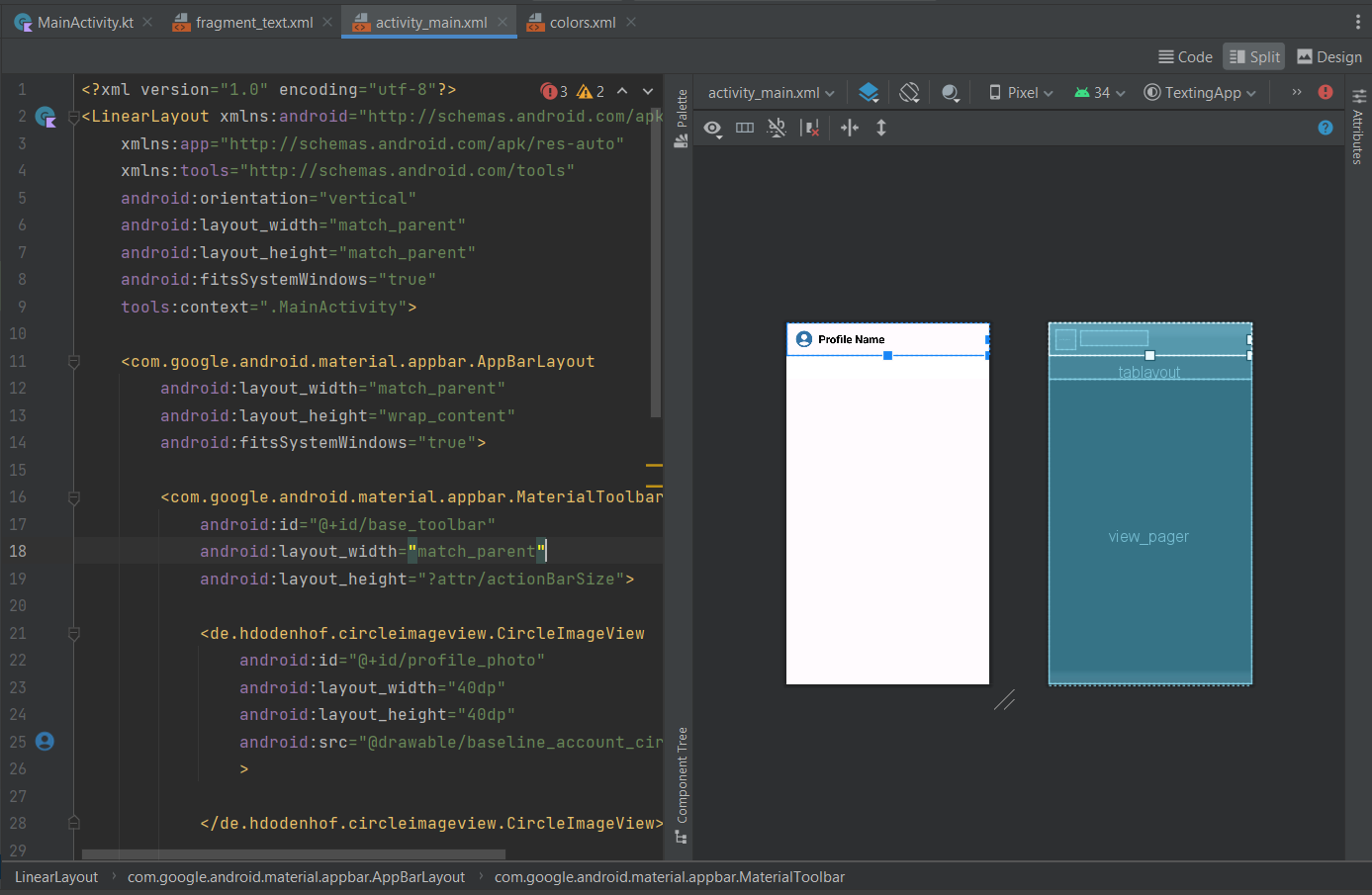
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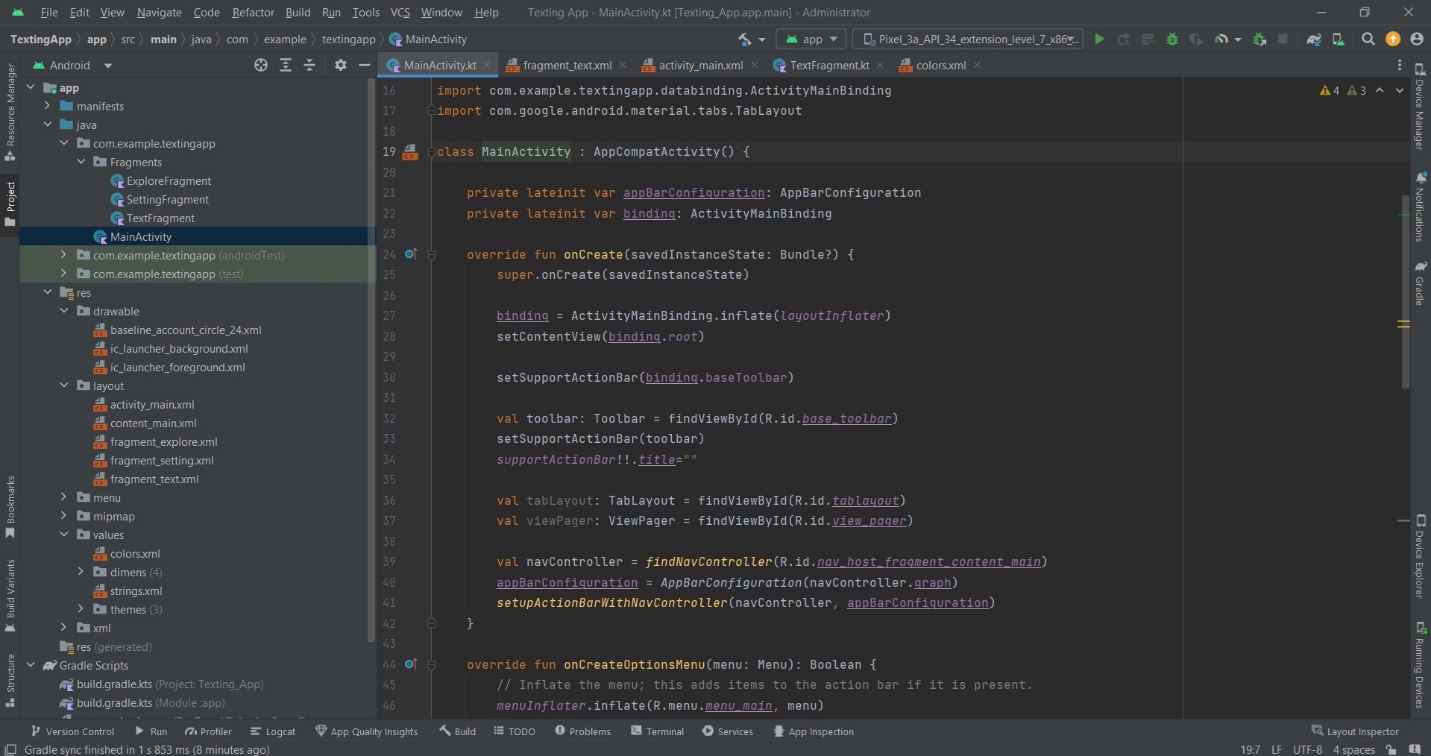
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* Created layout XML files for the main TextScreen, SettingScreen, SearchScreen etc. Also, Organizing fragments in an Android Studio Kotlin project that uses Firebase involves several steps. Fragments were a crucial part of the app's user interface, and they can be used to separate different sections of your app's UI.

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**Related Work :**

[**https://medium.com/@logikumar11/create-sms-messaging-app-using-android-studio-b83f130b25d2**](https://medium.com/@logikumar11/create-sms-messaging-app-using-android-studio-b83f130b25d2)

The tutorial explains through the process of creating an SMS messaging app using Android Studio. It covers topics like sending and receiving SMS messages, managing contacts, and creating a user interface for messaging. The tutorial's scope is to guide on building an app specifically for SMS messaging, often using the built-in SMS capabilities of Android devices. Texting app implies an application that allows users to send and receive text messages in real-time. While the Medium link is about SMS messaging, a "texting app" can be broader and encompass different types of messaging, including instant messaging over the internet or within a local network.

In summary, the Medium tutorial focuses on creating a specific type of messaging app that deals with SMS messages, while an "Android Studio Kotlin Chat App" is a more general term for any chat application developed using Android Studio and Kotlin, which can include different messaging functionalities beyond just SMS.

**Errors Faced :**

* Facing a bit of issue with my Kotlin code being inconsistent with the AndroidX or Android Support library which is causing a lot of type-mismatch error.

**References :**

* <https://developer.android.com/kotlin>
* <https://www.pluralsight.com/paths/android-development-with-kotlin-fundamentals>
* <https://firebase.google.com/>
* <https://frontendmasters.com/courses/firebase/>

**Conclusion :**

This project proposal Summarizes the development of a texting app for Android using Kotlin and Firebase. It focuses on a modern and secure messaging platform on the Android platform, and upon completion, it will provide a valuable resource for users.