CometChat Internship Task - React Native Integration

Candidate: Hrishab Kakoty

Github link: https://github.com/sinatra7/cometchat-react-native-task

Email: hrishabkakoty21@gmail.com

1. Introduction

This report documents the process of integrating the CometChat SDK into a React Native application. The objective was to implement user login, display a user list, and enable basic chat functionality. This document includes setup steps, code snippets, and screenshots from a successful run.

2. Setup Summary

- OS: Windows 11
- Tools: VS Code, Android Studio
- Framework: React Native with TypeScript template
- Dependencies: @cometchat-pro/react-native-chat, vector-icons, safe-area-context
- Emulator: Android Emulator (API 36)
- Users: cometchat-uid-1 (logged in), cometchat-uid-2, etc.

3. Key Code Snippet (App.tsx)

```
  useEffect(() => {
   const appSetting = new CometChat.AppSettingsBuilder()
    .subscribePresenceForAllUsers()
    .setRegion(region)
    .build();

   CometChat.init(appID, appSetting).then(() => {
    console.log('CometChat initialized');
    CometChat.login("cometchat-uid-1", authKey).then(
     user => {
      console.log("Login successful", user);
      fetchUsers();
     },
     error => {
      console.log("Login failed", error);
     }
    );
   });
  }, []);

  <TouchableOpacity onPress={() => openChat(item)} style={styles.userItem}>
   <Text>{item.name}</Text>
  </TouchableOpacity>
 )}
/>
```

4. Issues Faced and Solutions

- CLI compatibility issue due to deprecated init command

Solution: Used `npx react-native init` for setup

- Missing dependencies such as async-storage

Solution: Installed required packages manually
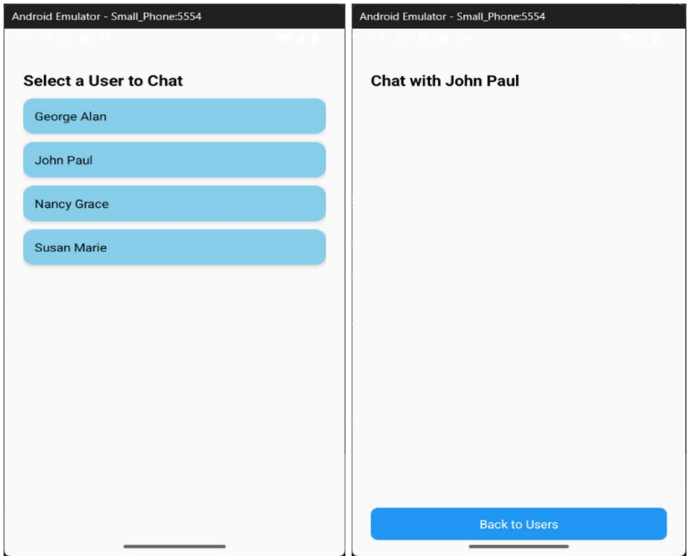
- User list not appearing initially

Solution: Verified and used valid CometChat UID from dashboard

- UIKit repo lacked direct screen components

Solution: Implemented custom UI using CometChat SDK directly

5. Screenshots

Screenshots have been captured during app testing and are included in the submission folder to demonstrate the working application.

6. Conclusion

This task helped me understand how to set up a React Native app, install dependencies, and integrate a third-party SDK. I learned how to debug issues, manage project structure, and create a basic UI. This is my first CometChat integration, and I enjoyed learning throughout the process.