iOS Interview Task Instructions

• You are allowed to use Stack Overflow for reference.
• Use of AI tools is prohibited. Candidates using AI will be disqualified. The goal is not to solve everything perfectly, but to understand your thought process.
• Project when finished commit to github

Technologies Required:

• Swift
• CoreData
• UIKit

IDE:

• Xcode

Task Overview

1. Asynchronous Operations preferable use async await
2. Design UI with UIKit, design is only indicative and does not need to be 1:1.

Screen 1: Login Screen

1. Use the following credentials for login:
    1. Host: mofa.onice.io
    2. Username: testuser@mofa.onice.io
    3. Password: Password123456
2. On the login button click, call the iwauthentication.login.plain API request.
3. The request will return a token. Insert account data into the database, token can store into keychain
4. When you open app again and user is logged in open second channel screen

Bonus:

1. Add password validation before making the request:
2. Fields cannot be empty.
3. Username must be a valid email.
4. Password must be at least 6 characters long.

Screen 2: Channels Screen

1. Add a back button to the toolbar. When pressed, delete all users from the database and navigate back to the login screen.
2. Fetch channels.list from API, Save fetched channel list into database for offline use. Use Codable to encode/decode the data.

3. Display the result in a collection view from database, setup as fetch result controller to automatically reflect changes in database
4. If data can't be loaded but offline data is available, use that cached data.
5. App should only support vertical orientation.

Bonus:

1. Group channels by groupFolderName and show a header for each group in the list

API
Request Content-Type: application/x-www-form-urlencoded

POST https://mail.icewarp.com/teamchatapi/iwauthentication.login.plain
Performs plain text authentication against the IceWarp server.
Parameters
- username : username of the user you want to authenticate
- password : password of the user above

POST https://mail.icewarp.com/teamchatapi/channels.list
Lists all channels visible to the authorized user
Parameters
- token : Auth token
- include_unread_count : If true, info about count of unread messages in channel will be included
- exclude_members : If true, members of channel will be missing, preferred true
- include_permissions : If true, info about caller permission for channel will be included, preferred false

Design mockup