

Project 4: Your Choice

This assignment is one last opportunity to hone your iOS skills in preparation for the conclusion of the semester and the final exam. I am giving you a choice of tasks to work on, so pick something that will fill in some gaps in your iOS portfolio. Given that we have just over two weeks left, I'm NOT expecting Project 4 to be the size of the first three projects.

Options

1. Your own choice.

- a. Pick any iOS project, any iOS topic, and do something interesting and meaningful. Check with me to be sure you're working on something acceptable.

2. Founders Directory. Do ONE of the following:

- a. Implement a nice, smooth app authentication process that is reliable, secure, and easy to use. The first time the user signs in, how will you authenticate them? When the user returns in subsequent launches of the app, how will you easily recognize them? I suggest you integrate fingerprint and face ID recognition as part of your solution. I've implemented a username/password-based API that will hand you a session token upon successful username/password verification. Use my API as part of your solution. Make authentication as smooth a process as possible. Your goal is to stay out of the way and make it easy to use the app. LDS Tools is a decent model.
- b. Implement a professional-quality profile editing feature. You already created an editing feature for Project 1. Now make one that Apple would be proud of. Apply your IS knowledge of controls and best practices to make the edit-profile feature robust and yet easy to use. Include editing of all fields, including pictures of both Founder and spouse. Integrate your editing feature into the app foundation I supply. Be sure the user can only edit their own profile, not those of other Founders. They need to have a valid session token from the API server before they can edit.

3. LDS Scripture Citation Index. Do ONE of the following, using the source code from my Github repository:

- a. Translate a meaningful portion of the app from Objective-C to Swift. (There are elements in the Model and Utilities areas that still need converting.)
- b. Implement an audio and/or video streaming feature for general conference talks. You could model this after Gospel Library's streaming feature, or you could choose a different UI that makes sense to you.
- c. Find and fix a meaningful bug in the Citation Index (like improving and fixing the state restoration feature).