

ITP 342 Final Project

Goal

- Create an iPhone or iPad app of your choice.
- App should demonstrate mastery of the concepts discussed in the course.
- App should include two items that are not explicitly covered in class or previous assignments.

Requirements

- Your project uses a storyboard.
- The user interface contains at least 3 views. (You can have more than that.)
- Your project uses the delegate design pattern (such as UIPickerView, CollectionView, TableView, or ScrollView).
- Your project uses the MVC design pattern. Data should be in a model class (or classes). If you need to share the data across controllers, use a singleton.
- Your project uses a segue where you implemented the prepareForSegue:sender: method.
- Your project must use at least **two** items from the following list:
 - Address Book
 - Audio (AudioUnit, CoreAudio, OpenAL, or AVFoundation)
 - Camera and Photo Library
 - Contacts Library
 - Core Data for Data Persistence
 - Core Graphics
 - Core Image for image filters or face detection
 - Core Location and Map Kit
 - Game Center
 - iCloud
 - Localization and Internationalization
 - OpenGL
 - Passbook
 - REST / 3rd-party APIs such as Google maps, Facebook Graph, Firebase, Parse, FitBit, JAWBONE UP, Spritz
 - System Messaging (Mail or SMS)
 - UIKit Dynamics
 - XML Parser

If you want to use something that isn't listed, then ask me for permission.

- Create and use the appropriate icon images.
- Your user interface should look nice.
- Your project has to compile and run.

- Comment your code. Make sure the .h & .m files include your name and email.
- If you need me to test it on a device, please let me know in your submission.
- Compress your project to create a zip file and submit it on Blackboard.

Ideas

- A resume app about you that you could show to potential employers.
- App for ITP that showcases our classes, minors, etc.
- App to replace the roster I pass around class.
- App to handle check-in & check-out of mobile devices for ITP.
- App to display a RSS feed from feedly or Google news feed.
- App to record audio or play music from a service such as SoundCloud
- App to share photos
- App to show popular pictures from Instagram around location
- App to show popular social network data near a location

App Proposal

- Write a proposal document (Word or Google Docs) stating the app name, app definition statement, key features, technology items, and user profile.
- Submit hand-drawn or visual wireframes/prototypes of the main screens of your app. If you would like to use Balsamiq, let us know.
- Submit everything on Blackboard.

Final App

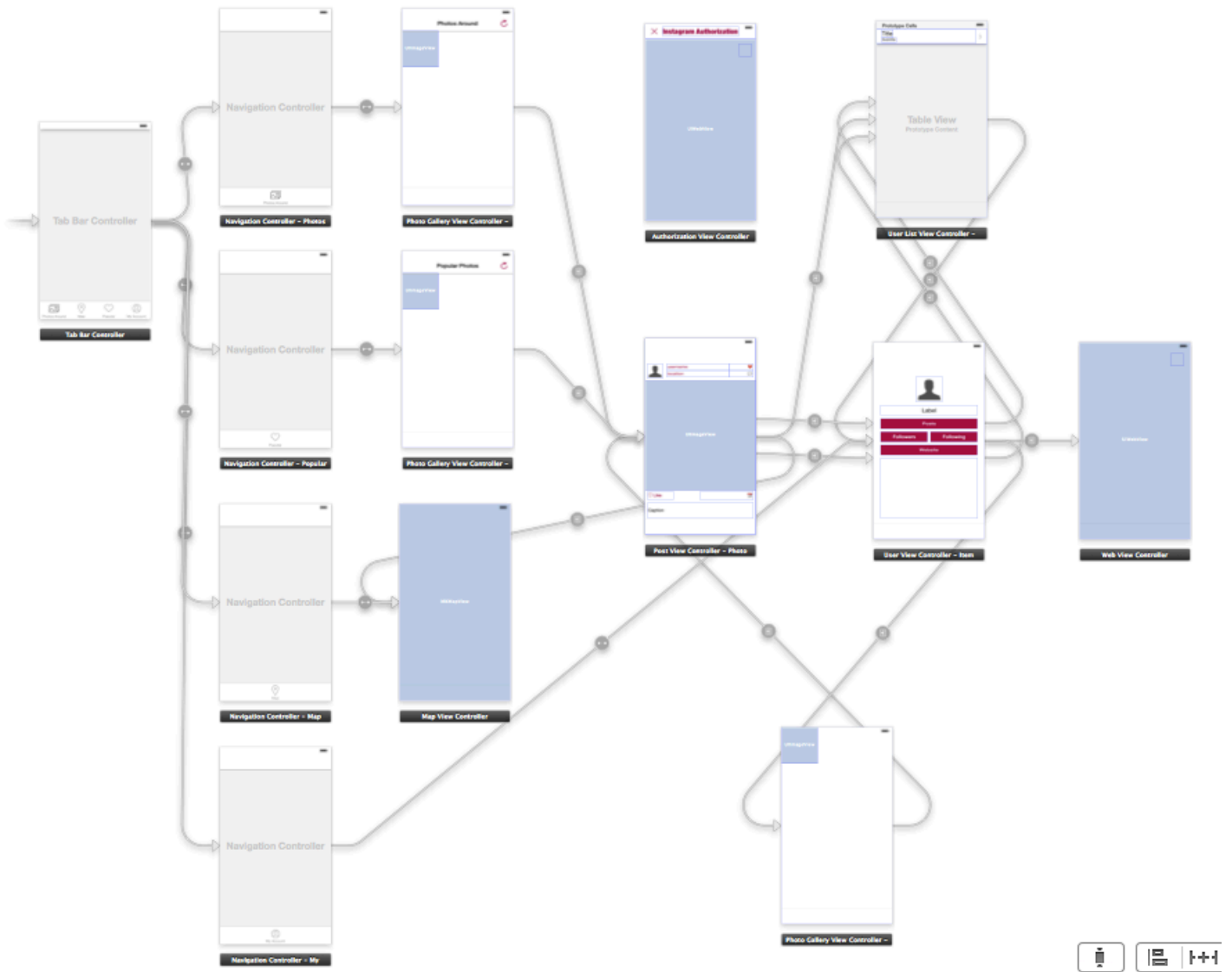
- Submit your final app on Blackboard.
- During the scheduled final exam time for the class, come to class and demonstrate your app. You will also need to show your code.

Grading – 100 pts

- App proposal – 10 pts
 - Document with app definition statement, features, and user profile – 5 pts
 - Wireframes/prototypes – 5 pts
- Final App – 90 pts
 - App icon – 5 pts
 - Storyboard – 10 pts
 - Delegate or adapter pattern – 5 pts
 - MVC – 5 pts
 - Segue – 5 pts
 - Item #1 – 20 pts
 - Item #2 – 20 pts
 - Everything works correctly – 10 pts
 - Good user interface – 10 pts

Example – Photos Around

Storyboard



Screen shots

