

Homework Week 7

The purpose of this assignment is to show your understanding of location and mapping concepts, including determining user location, using MKMapView instances, and performing local search.

In order to successfully complete this assignment, you must successfully implement all of the Functional Requirements below. As with all apps that you submit for this class, you should also:

- Ensure that your app does not crash or behave in an unstable manner
- Make use of good design patterns (e.g. [MVC](#)) and structure your app accordingly
- Follow the [Human Interface Guidelines](#) when designing your app's UI
- Test your app on an actual device running the latest version of iOS

Functional Requirements

This week we will be adding on to the project we completed for our last homework assignment. We will add a way for the user to associate a location with the image that they have taken and a way to view that location on a map.

Add Photo

The add photo view controller should have two cells. Last week you should have added one that displays the image that the user chose. This week you will add another cell that will allow the user to search for and choose a location to associate with the image.

Tapping the Location cell should push a custom Search Location view controller onto the screen. The location cell should also display the name of the chosen location once the user has done so.



Search Location

The Search Location view controller should allow the user to search for a location within their current geographic region. You should use the UISearchBar view and implement the appropriate delegate methods for getting the text that the user has entered. You should then perform a local search and display the results in a table view. You should also have some way to pass the results back to the Add Photo view controller.

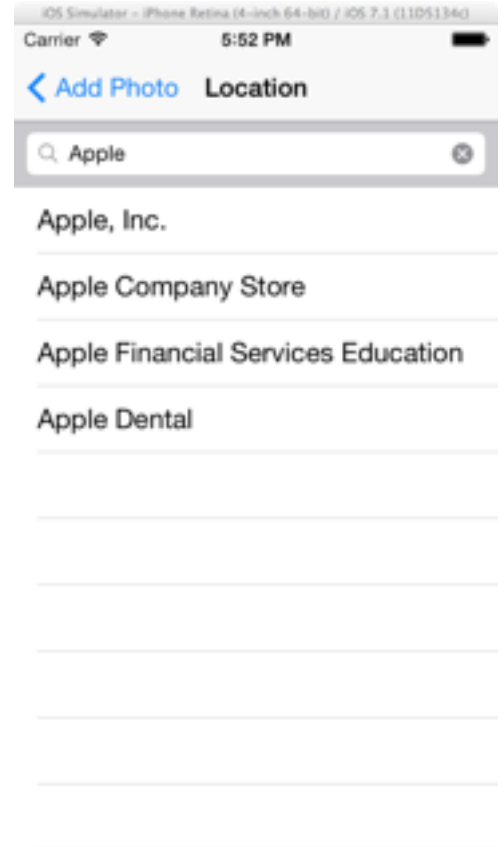
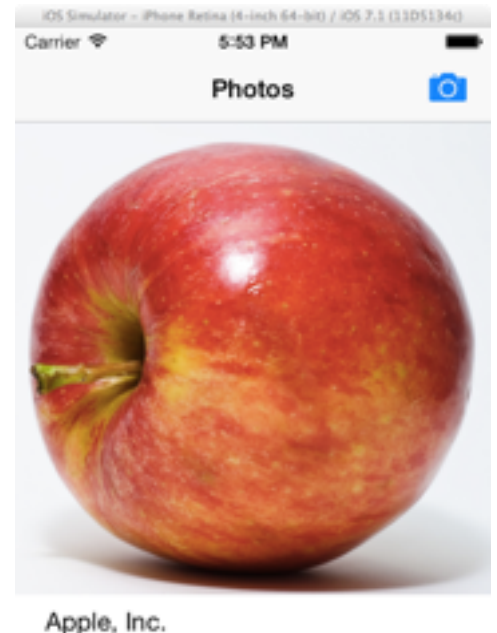
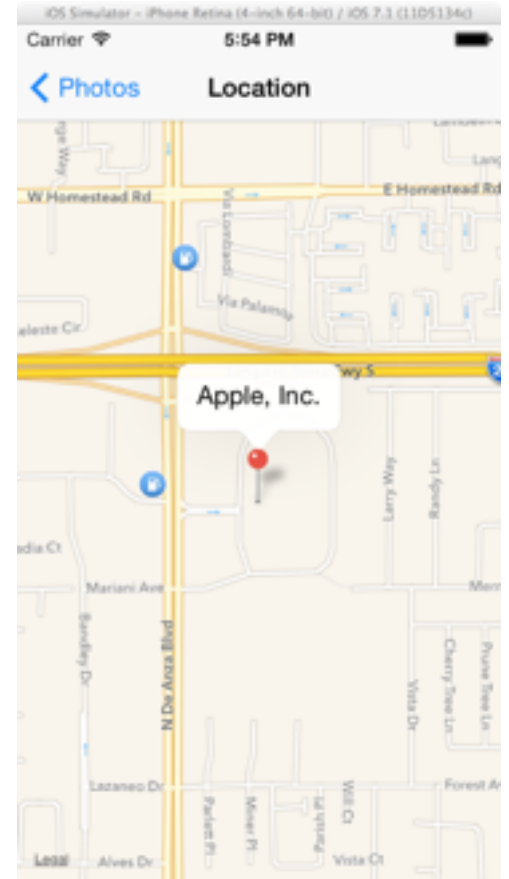


Photo List

New on the Photo List will be adding a label to display the name of the location that is now associated with the photo. Also, when the user taps a cell, we will push on a new Map View controller.



The map view should show a pin to mark where the user tagged the photo and, when tapped, should display a callout that contains the name of the location.



Bonus Opportunities

You may implement the following features for bonus points:

- **20 points:** Add an accessory view to the pin's callout. When tapped, push on a new view controller that displays more details about the chosen location including phone number, url and address.

Submitting Your Work

This assignment is due by 11:59pm Pacific Time on Wednesday, March 12. To submit your work, upload a .zip file to the appropriate drop box that contains your entire Xcode project directory, including:

- Your .xcodeproj bundle and all its contents
- All your source files, including code, .xib files, and any image resources
- Any additional files that your app requires to run

Name this zip file “UW_HW7_<UW NetID>.zip”, where <UW NetID> is the username assigned to you by UW. (For example, the instructor’s submission would be named UW_HW7_cartej.zip.)

Your submission should compile cleanly on the first try, throwing absolutely no errors, warnings, or static analyzer problems. You may lose points if your solution does not compile cleanly.

Your submission should, once compiled, run well on an actual device running the latest version of iOS. You may choose to support past versions of iOS, but all testing will be done on the newest version available on the due date.