Project 3: On the Map

iOS Developer Nanodegree

Criteria	Meets Specifications	Exceeds Specifications (Completely Udacious)
Login View		
Does the app have a login view that accepts email and password strings from users, with a "login" button?	• The app has a login page that accepts email and password strings from users, with a "Login" button.	• The login page includes a "Login Using Facebook" option.
Does the app notify the user if the login fails?	• The app uses an Alert View Controller to notify the user if the login connection fails. It differentiates between a failure to connect to the network, and incorrect credentials (i.e., wrong email or password).	
Student Locations Tabbed View		
Does the app download locations and links previously posted by students? *(to be displayed in the Map and Table tabs)*	• The app downloads the 100 most recent locations posted by students.	
Does the app contain a `StudentInformation` struct to store individual locations and links downloaded from the service?	• The app contains a `StudentInformation` struct with appropriate properties for locations and links.	*Not Applicable*
Does the `StudentInformation` struct have an `init` method to	• The struct has an `init()` method that accepts a dictionary as an argument.	*Not Applicable*

initialize instances from a dictionary?		
Does the app store the array of `StudentInformation` structs in a single location, outside of the view controllers?	• The `StudentInformation` structs are stored as an array (or other suitable data structure) inside a separate model class, not in the view controller.	*Not Applicable*
Does the app display an alert view if the download fails?	• The app displays an alert if the download fails.	
Does the app display the downloaded data in a tabbed view with two tabs: a map and a table?	• The app displays downloaded data in a tabbed view with a map and a table.	• The table is modified to be visually interesting.
Does the map view contain a pin for each of the locations that were downloaded?	• The map view has a pin for each student in the correct location.	*Not Applicable*
When the pins in the map are tapped, is a pin annotation displayed with the student's name and the link that the student posted?	• Tapping the pins shows an annotation with the student's name and the link the student posted.	*Not Applicable*
If the pin annotation is tapped, is the link opened in Safari?	• Tapping a student's pin annotation opens the default device browser to the student's link.	*Not Applicable*
Does the table view contain a row for each student location that was downloaded with the student's name displayed?	• The table has a row for each downloaded record with the student's name displayed.	*Not Applicable*
Is the Table appropriately sorted?	• The table is sorted in order of most recent to oldest update.	*Not Applicable*
When a row in the table is tapped, does the app open Safari to the student's link?	• Tapping a row in the table opens the default device browser to the student's link.	*Not Applicable*
Does the Student Locations Tabbed View have a pin button in the upper right corner of the navigation bar? Does that button allow users to post their own information to the server?	• The Student Locations Tabbed View has a pin button in the upper right corner of the navigation bar. The button modally presents the Information Posting View so that users can post their own information to the server.	*Not Applicable*
Does the Student Locations Tabbed View have a logout button in the upper left corner	• The Student Locations Tabbed View has a logout button in the upper left corner of the navigation bar. The logout	• If applicable, the logout button logs out

of the navigation bar? Does that button allow the users to correctly logout?	button causes the Student Locations Tabbed View to dismiss, and logs out of the current session.	of the current Facebook session.

Information Posting View

Does this view prompt the user to enter a string representing their location? Does it provide a place for the user to enter a string?	• The Information Posting view clearly indicates that the user should enter a location. The text view or text field where the location string should be typed is clearly present.	*Not Applicable*
Does the app allow users to enter a URL to be included with their location?	• The app allows users to add a URL to be included with their location.	
Does the app provide a button that the user can tap to post the information to the server?	• The app provides a readily accessible "Submit" button that the user can tap to post the information to the server.	*Not Applicable*
Does the app geocode an address string when a button is pressed?	• When a "Submit" button is pressed, the app forward geocodes the address string and stores the resulting latitude and longitude. Foward geocoding can be accomplished using CLGeocoder's `geocodeAddressString()` or MKLocalSearch's `startWithCompletionHandler()`.	*Not Applicable*
Does the app indicate activity during the geocoding?	• An activity indicator is displayed during geocoding, and returns to normal state on completion.	• The app shows additional indications of activity, such as modifying alpha/transparency of interface elements.
Does the app display an alert view if the geocoding fails?	• The app displays an alert if the geocoding fails.	*Not Applicable*
Does the app show the geocoded response on a map?	• The app shows a placemark on a map via the geocoded response. The app zooms the map into an appropriate region.	
Does the app post the search string and coordinates to the RESTful service?	• The app successfully encodes the data in JSON and posts the search string and coordinates to the RESTful service.	*Not Applicable*
Does the app provide a button that the user can tap to cancel	• The app provides a readily accessible button that the user can tap to cancel (dismiss) the Information Posting View.	*Not Applicable*

(dismiss) the Information Posting View?		
Does the app display an alert view if the post fails?	• The user sees an alert if the post fails.	*Not Applicable*

Networking Architecture

Is the networking and JSON parsing code placed in its own class?	• The networking and JSON parsing code is located in a dedicated API client class (and not, for example, inside a view controller). The class uses closures for completion and error handling.	
Does the networking code use Swift's built-in NSURLSession library?	• The networking code uses Swift's built-in NSURLSession library, not a third-party framework.	
Does the JSON parsing code use Swift's built-in NSJSONSerialization library?	• The JSON parsing code uses Swift's built-in NSJSONSerialization library, not a third-party framework.	