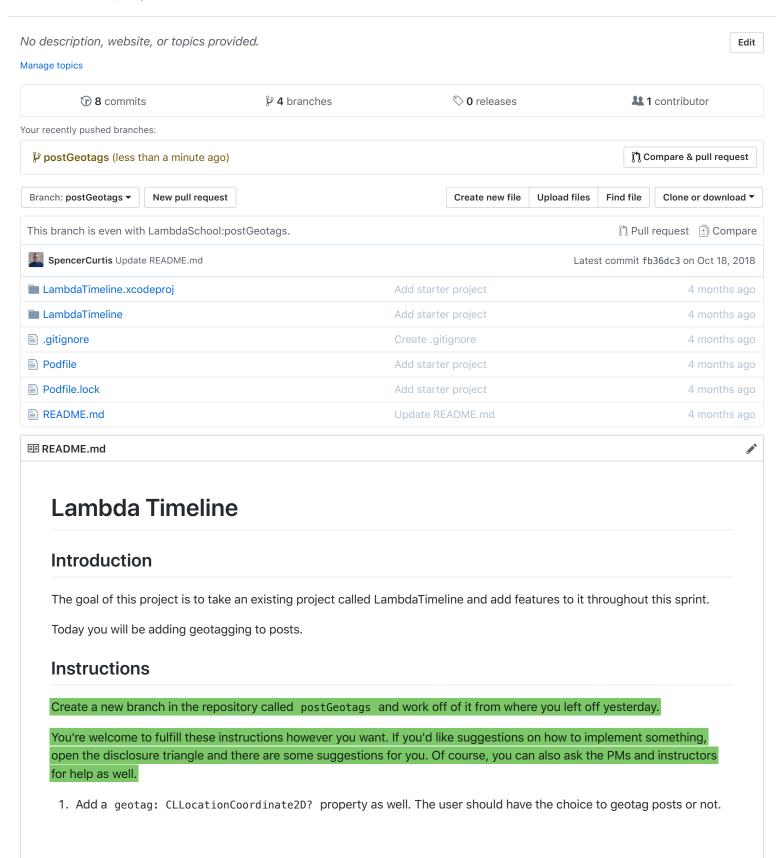
## Y audreywelch / ios-lambda-timeline

forked from LambdaSchool/ios-lambda-timeline



2. You will need to make an MKAnnotation that represents a Post . The annotation's title should be the post's title and the subtitle should be the name of the post's author. You have at least two options on how to do this: a. Change the Post object to adopt and conform to the MKAnnotation protocol. b. Create a separate object called PostAnnotation or something similar that conforms to MKAnnotation . The PostAnnotation could get its values from a Post that is passed into an initializer.

Either way you decide to do this has its pros and cons, so choose whatever makes the most sense to you.

- 3. Update the dictionaryRepresentation and both initializers to account for the property (or properties).
  - **Note:** Firebase will not store a CLLocationCoordinate2D , so you must break it up into a key-value pair for both the latitude and longitude in the dictionaryRepresentation .
- 4. Update the PostController to account for creating posts with and without geotags.
- 5. Create a helper class that will take care of requesting location usage authorization from the user, as well as getting their current location in order to geotag a post that is being created. This can be done through using CLLocationManager and CLLocationManagerDelegate.
  - Note: For the base requirements of this project, every post that should be geotagged will just use the user's current location.
- 6. Update the UI for creating image and video posts to allow the user to choose whether to geotag their posts or not.
- 7. In the Main.storyboard, embed the navigation controller in a tab bar controller. Add a new view controller scene with a map view on it. There are a few things that you will have to change now that the tab bar is essentially the first view controller to be displayed once the user is authenticated.

## ▼ Hints

- As the map view controller is going to need access to the same instance of PostController as the rest of the app uses, consider creating a subclass of UITabBarController and initializing a PostController there instead of the PostsCollectionViewController. That way, the tab bar controller can pass references to it to both the PostsCollectionViewController and the new map view controller.
- In the AppDelegate the way the navigation controller holding the PostsCollectionViewController becomes the
  initial view controller if the user is authenticated is by initializing it from the storyboard with a Storyboard ID. You
  will need to give the tab bar controller a storyboard ID and use it instead of the navigation controller's that is
  currently used. If you are unfamiliar with how this works, this Stack Overflow question gives a straight answer.
- 8. The map view controller should take the posts from the post controller that have geotags, and place annotations on the map view for each of them.

## Go Further

- Add the ability for the user to select a place to geotag the post at. This can be done a number of ways:
  - Use a map view and let them drop a pin (annotation) on it. You can then get the coordinate from the pin.
  - Use MKLocalSearch to let the user search for a location.

You are encouraged to implement both methods if you feel up to it.

• Customize the annotations that are shown on the map view controller to also show the media (image or video) associated with it. **Note:** if you chose to create a PostAnnotation object, you may need to modify it so you can have more information than just the post's title and author.

• Add the ability to go directly to the detail view controller of a post (the one with the post's comments) from the annotation.