General Instructions: Rename your project folder to be lastname-firstname. Create a compressed zip file of this entire directory and submit as an attachment under Content ➔ Homework 7 for this course on the Blackboard Learn system by the above deadline. You may submit multiple times, but only the most recent entry submitted before the above deadline will be graded. Make sure all files are actually copied into the app directory and not just referenced elsewhere on your computer.

For this homework you will add to your Traveler app from HW5 the ability to schedule a notification for a specific trip. If the user opens the notification, they will be taken to the detail view of that trip inside the Traveler app. See screenshots below. Specifically,

1. In the Storyboard, add a “Schedule Notification” button below the image view in the Trip Detail view. When tapped, the app should first generate an alert that asks you to confirm scheduling a notification. If confirmed, the app should schedule a notification to appear in five seconds. The notification title and body can be whatever you want, but the userInfo dictionary of the notification should include a key whose value is the destination name for this trip.

2. In the table view controller of the app, implement a handleNotification method that will be called from the AppDelegate when the user has opened the notification. This method should first ensure that the app is in the table view, not the trip detail view. This can be done by checking if the navigationController.topViewController is of the type of the table view controller; if it is not, then the app should pop this view. Next, the method should lookup in the trips array the destination name of the notification’s trip. If the trip still exists (it might have been deleted), then the app should segue to the trip detail view for this trip.

3. In the AppDelegate, conform the class to the UNUserNotificationCenterDelegate protocol. In the didFinishLaunchingWithOptions method request authorization to receive notifications and set the user notification center delegate to self.

4. Also in the AppDelegate class, add the didReceive UNUserNotificationCenter delegate method, which should call the handleNotification method in the TableViewController class with the response.

5. Be sure auto layout constraints are set so that all the view elements are appropriately placed regardless of device orientation.
Screenshot: Storyboard (only change from HW5 is the “Schedule Notification” button in the Detail View Controller)
Screenshots: App