

Homework #9: Beginning iPhone Development with Swift

Due: Apr. 5, 2018

Preliminary

- Electronic submission of coding assignments will be through Canvas. Please upload a single .zip file containing project code. The zip file should be named with your (lowercase) first initial and last name, e.g. pdeleon.zip.
- Please submit a hardcopy of p. 2 of this assignment in class on the due date.
- Students responsible for the week's lecture should meet with Prof. De Leon during office hours the week *before* the lecture to review their lecture slides and receive feedback. This means completing the chapter the week before the meeting and creating the lecture slides.

Week 12 Lectures

Ivan White and Yehia Arafa (Chapters 25 and 26)

Assignment

Submit the app at the end of Chapter 23. The app portion of this assignment is worth 75% and the question portion of this assignment is worth 25%.

1. Read/review Chapter 21.
2. Read Chapter 22 and develop the MyLocations app.
3. Read Chapter 23 and develop the MyLocations app.
4. Submit a hardcopy of p. 2 of this assignment

Name:

Please answer the following questions pertaining to Chapters 22-23.

1. What is difference between *geocoding* and *reverse geocoding*?
2. When starting a new Xcode project, there are several available templates. What is difference between a *Single View App*, *Page-Based App*, and a *Tabbed App* templates?
3. In order to obtain the user's coordinates, what iOS framework is used? What are the different ways an iPhone obtains location information?
4. What property in the CLLocationManager class specifies the desired location accuracy? What methods in the CLLocationManager class start and stop updating the location manager?
5. From a privacy perspective, why is it important for app ask for permission to access a user's location? How does iOS enforce this policy?
6. From a user-experience perspective, why is an *asynchronous* process preferred when obtaining a user location over a *synchronous* process?
7. Given that there are different ways an iPhone obtains location information, how can the process be error-prone?
8. What are three possible CoreLocation errors?
9. There are six CLLocation accuracies including kCLLocationAccuracyNearestTenMeters. What are the other five?