



WEEK 7 ASSIGNMENT

FILES & PERSISTENCE

Add persisted data to the provided sample app. The assigned app contains a series of screens, each prompting for data to be written or read from various persisted stores (flat files, plists, user defaults). These exercises will give you familiarity with several ways to read and write files in iOS, and will give you a starting point for using persistence in your final project app.

GOALS OF PROJECT

- Gain familiarity with iOS file input/output methods, including reading from flat files, exploring folder structures, user defaults and persisted data structures using plists

PROJECT REQUIREMENTS

Your app must:

- Meet all requirements laid out in the sample app
 - Format: Sample app has all input/output TODOs filled out and functioning
- Specifically, screen one will contain a text box in which you will need to print the value of a string and number stored in NSUserDefaults.
- Screen two will contain a text box in which you will need to print the value of a string and a number, editable in the iOS settings app.
- Screen three will be an empty text box which you will have to save to a flat file.
- Screen four will be a text box in which you will need to print the text stored in the flat file saved on screen three.
- Screen five will contain the text representation of an array. When 'next' is tapped, that array must be saved to disk.
- Screen six must print out the array saved on screen six.

DELIVERABLES

- Assignment (code, resources, project file) posted on Github

TIMELINE

DUE DATE	DELIVERABLE
Week 8, Day 1	Assignment (code, resources, project file) posted on Github

SUGGESTED WAYS TO GET STARTED

- Understand the definition of each persistence method: What are flat files, what are plists, what is SQL, what is core data, what are user defaults?
- What are the advantages of using each of the above? The disadvantages?
- Write down one use case where you would use each of the above persistence methods.



RESOURCES

Links:

- › [A short, informal rundown of data persistence methods in iOS](#)
- › [Bonus: an optional overview of Core Data, Apple's persistence framework](#)

EVALUATION

Your assignment will be evaluated regarding the extent to which you meet the above requirements using this rubric:

[LINK TO RUBRIC](#)

The rubric outlines how your assignment will be evaluated on assignment readiness, stability & performance, and style & readability.