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Notebook report

Assignment 2 – SEM2220 Mobile Solutions

# Introduction

This report is a write up of the second assignment for SEM2220 Mobile Solutions. The assignment was to create a native mobile application in either Java for Android or Swift for IOS. In short the application needed to be able to take notes, search Guardian content using the Guardian API [] and link articles to the notes previously taken.

The application was written in swift using XCode. Some swift code was provided to help access the Guardian API. This code was adapted to aid in finding a solution to the assignment.

This report will cover the following:

1. How the assignment was implemented in Swift.
2. Problems that were encountered
3. Testing procedure and results
4. Evaluation of the solution

# Implementation

I began by looking at the previous workshops that SEM2220 had provided to refresh my memory of how to use XCode and program in Swift. After scanning through the workshops and workshop solutions on GitLab [], I found the solutions that would aid me in completing the assignments.

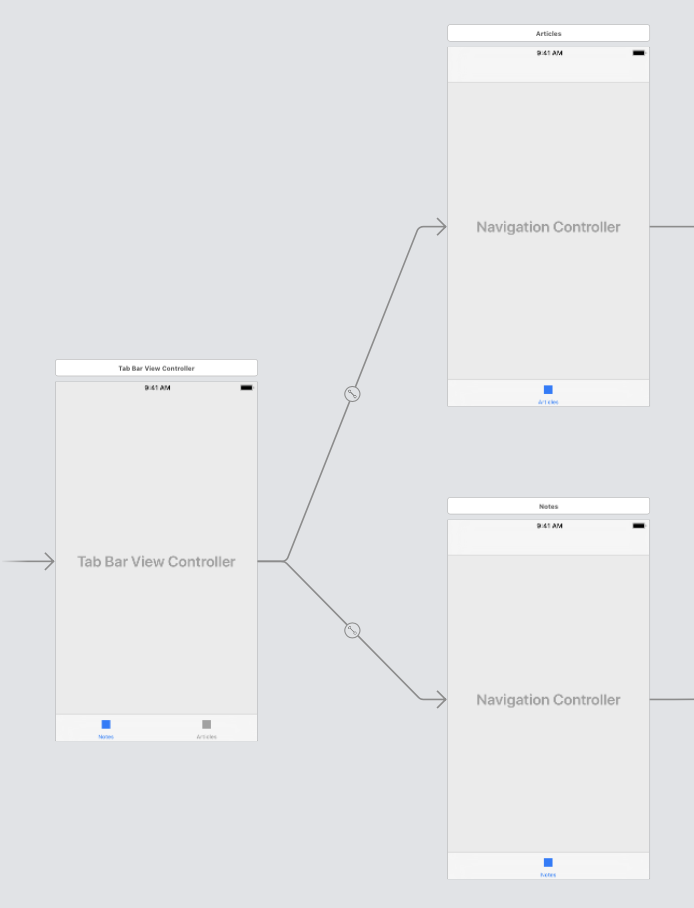


Figure 1 - Tab Bar Controller connecting to Two Navigation Controllers

I started by creating a tab bar view controller, a navigation controller being the initial view, with one of the tab views to be for creating and viewing notes. I used a table view controller to view the notes that were going to be created. I noticed I wasn’t able to add any bar button items on the navigation bar, I moved the navigation controller and tab bar controller around and was able to add the item then, this is why two navigation controllers have been used in the final solution as shown in Figure 1. A segue was created using the bar item to a new view controller that was to be used for creating new notes and storing them.

I decided to use Core Data as the storage solution it was covered in the IOS workshops and very easy to implement as it is built into XCode.

The implementation for creating a new note is straight forward as it is using techniques to store the data as learnt in the IOS workshops, the only difference is that later I would implement an edit note function that would be triggered if a *Note* variable was passed to the controller, if a note wasn’t passed to the controller then a new note would be created.

When the notes were shown in the table view I decided to create another table view controller that would be shown when a user clicks on the note itself.