CS 329E - Spring 2018 - Homework 5

Due date: **2/27/18 by 11:59pm**, late work is not accepted
Points: 20 points
Submit: A zip file of your entire project folder.
                 Name your zip file: **<last-name><first-name>-hw5.zip**
                     Example: for Joe Smith   SmithJoe-hw5.zip

Description: This will be an exercise in using the following in an application:
• Navigation Controller
• Simple View Controller
• Table View Controller
• Segmented Control
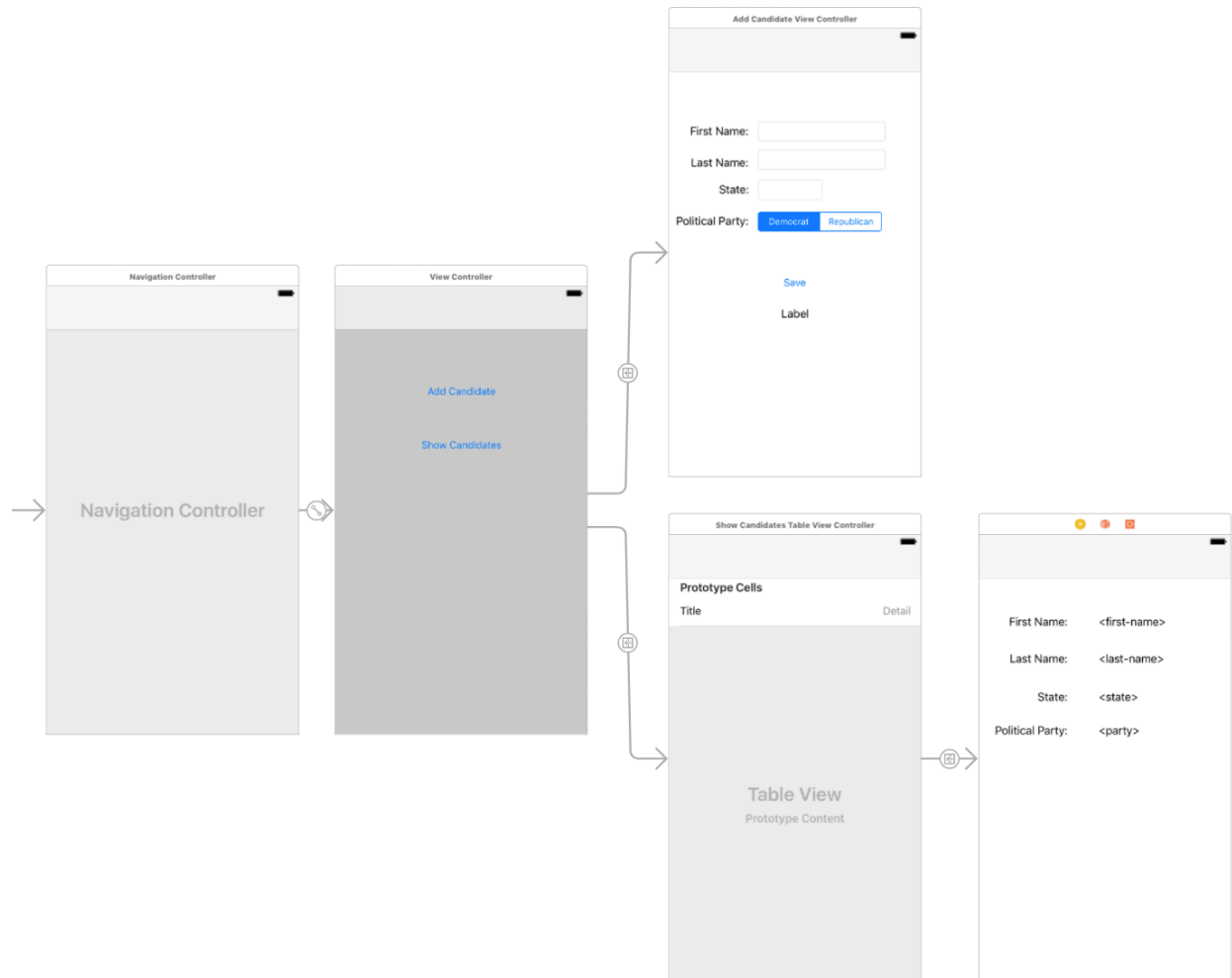• Core Data

1. Create a Single-View iOS application project named **<last-name><first-name><dash>hw5**.
2. Modify the storyboard per the storyboard screen shot below.
3. See sections below for what each screen should look like at run time and expected behavior.
4. Use Core Data to persist the data.
5. Set appropriate constraints so that the UI looks good/correct when run on an **iPhone 8** or **iPhone 8** plus in portrait orientation.

Suggestion: Wrap the Core Data code in a class that the rest of the app can use to read/write data to Core Data.

Grading criteria:
1. The application builds and runs. (1 point)
2. Main screen looks and behaves as defined. (3 points)
3. Add Candidate screen looks and behaves as defined. (5 points)
4. Show Candidates screen looks and behaves as defined. (5 points)
5. Candidate Detail screen looks and behaves as defined. (4 points)
6. The user interface displays correctly on both **iPhone 8** and **iPhone 8 plus**. (2 points)
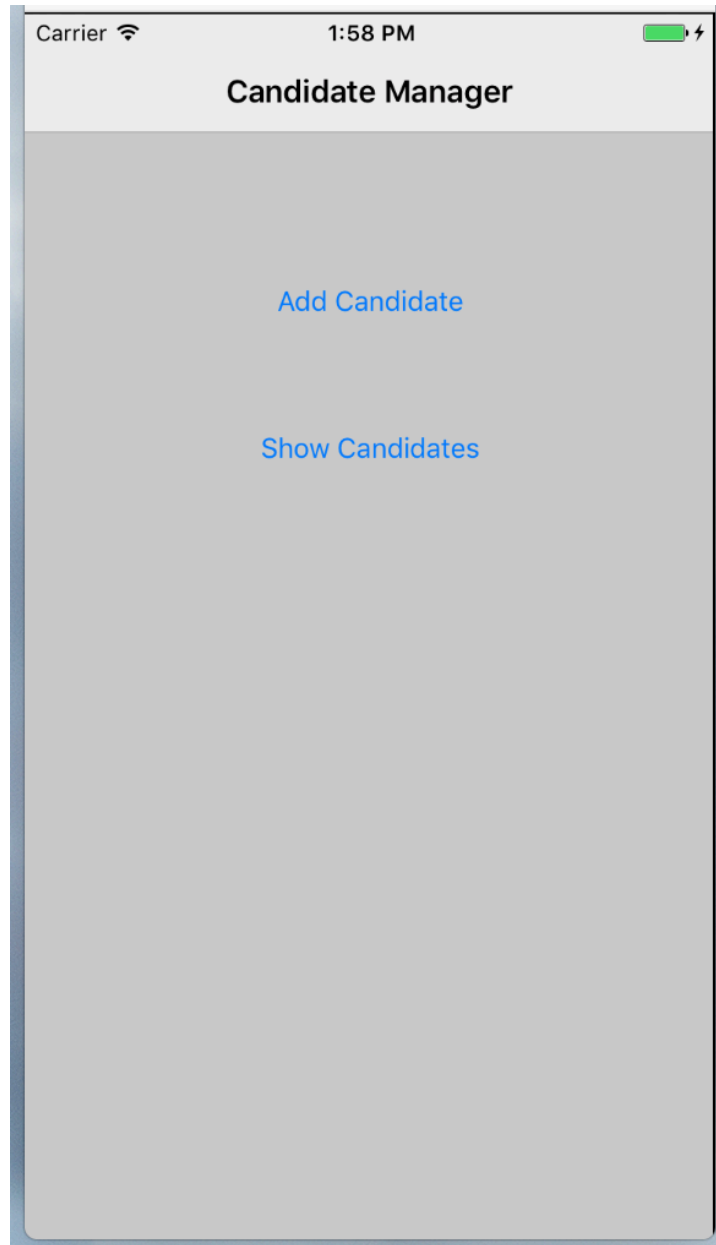7. The coding standard is followed. (1 point deducted for each violation)

This is what your storyboard should look like:

Add Candidate View Controller

First Name: [_____]

Last Name: [_____]

State: [___]

Political Party: [Democrat | Republican]

Save

Label

Navigation Controller

Navigation Controller

View Controller

Add Candidate

Show Candidates

Show Candidates Table View Controller

Prototype Cells

Title   Detail

Table View
Prototype Content

First Name: <first-name>

Last Name: <last-name>

State: <state>

Political Party: <party>

Main screen:

Behavior:
1. *Add Candidate* button segues to the Add Candidate screen.
2. *Show Candidates* button segues to the Show Candidates screen.

Add Candidate Screen:

Behavior:
- A simple view controller with 3 text fields to allow entry of a candidate's first name, last name and state. And a segmented controller for party selection.
- When the user touches the Save button the candidate should be added to the data model, so the candidate will show up in the rest of the app. Also, a "Candidate Saved!" message is displayed below the Save button.
- If first name, last name or state are empty, use an alert view to display the following message - "You must enter a value for all fields."
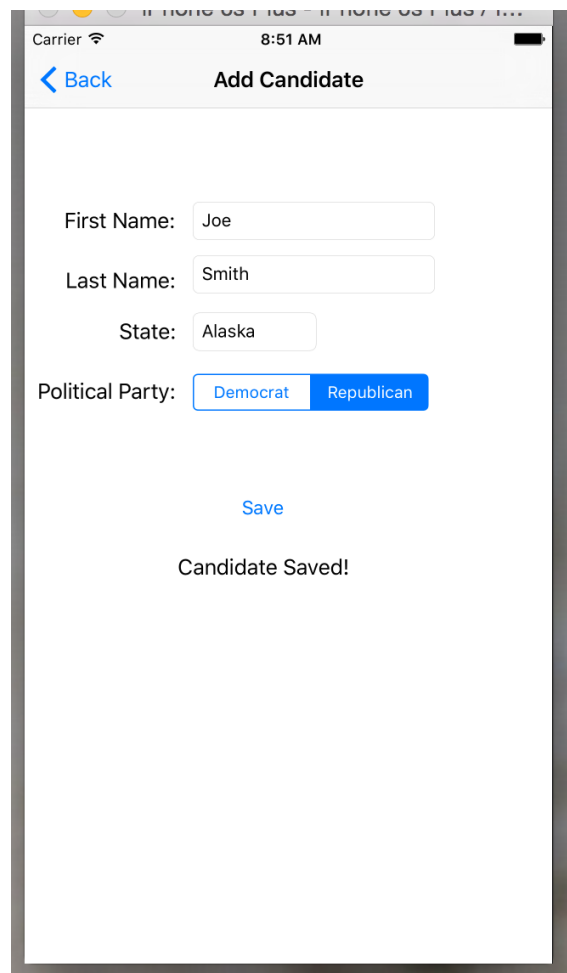
Show Candidates Screen:

Behavior:
- A table view controller which displays all the candidate's - first name, last name and political party.
- The table view cell style is Right Detail.
- When the user touches one of the candidates it segues to a detail screen, which is a simple view controller that displays all the information about the candidate.

Carrier 🔋	8:52 AM	
‹ Back	**Show Candidates**	
Donald Trump		Republican
Mark Rubio		Republican
Hilary Clinton		Democrat
Ben Carson		Republican
Bernie Sanders		Democrat
Carly Fiorina		Republican
Jeb Bush		Republican
Chris Christie		Republican
Paul Rand		Republican
Joe Smith		Republican

→

Carrier 🔋	2:07 PM	
‹ Back	**Candidate Detail**	
First Name:	Carly	
Last Name:	Fiorina	
State:	Virginia	
Political Party:	Republican	