

# CS 371L: Bulko

## Programming Assignment 3

### Simple Segue

Due Date: extended to July 26, 11:59 pm

## 1 Problem Definition

In this assignment, you are going to create several View Controllers which are connected by segues. Also, you need to use Protocols and Delegates to pass values back and forth.

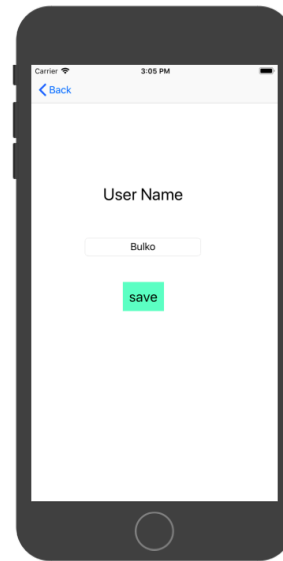
There will be 3 View Controllers: the Main VC, the Username VC and the Gender VC, as shown in Fig. 1(a), 1(b) and 1(c). In the Main VC, we have two buttons with titles indicating 'User Name' and 'Gender'. When clicking on the buttons, they will segue to the Username VC or the Gender VC, and you will be able to edit. In the Username VC, the current user name is presented in the text field. You can change it in the text field and save. In the Gender VC, you can change the gender by selecting among the buttons. After editing, the buttons of the Main VC will be updated accordingly, as shown in Fig. 1(d).

## 2 Detailed Instructions

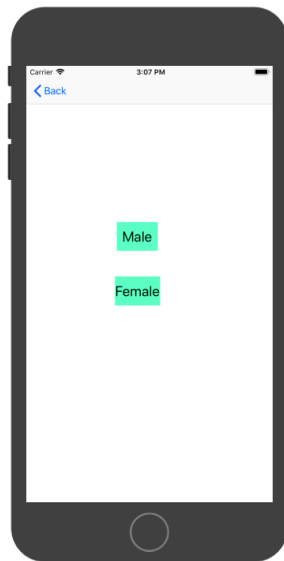
- Create a Single View application project named <lastName><firstName>-HW3.
- The Main VC (Fig. 1(a)):
  - In the storyboard, select the Main View Controller and embed it in a navigation controller by "Editor - Embed in - Navigation Controller".
  - Create two buttons with titles `User Name` and `Gender`. When the first button is clicked, it will segue into the Username VC. When the second button is clicked, it will segue into the Gender VC.
  - In the `prepare(for segue:)`, pass the current user name to the Username VC.
- The Username VC (Fig. 1(b)):
  - Create a label named `User Name`, a text field with current user name and a button named `save`.
  - If the `save` button is clicked, the input in the text field will be passed back to the Main VC using Protocol/Delegate, and the title of the `User Name` button of the Main VC will be updated using the new user name.
- The Gender VC (Fig. 1(c)):
  - Create two buttons named `Male` and `Female`.
  - If the `Male` button or the `Female` button is clicked, the choice will be passed back to the Main VC using Protocol/Delegate, and the title of the `Gender` button of the Main VC will be updated accordingly.



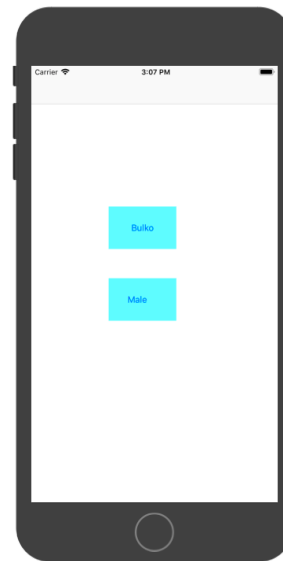
(a) The Main VC



(b) Username VC



(c) Gender VC



(d) The Main VC after editing

Figure 1: Application demos

### 3 Grading criteria

1. You have UI components as defined. (20%)
2. The `prepare(for segue:)` in the Main VC is correctly implemented, so the text field of the Username VC is filled with the current user name. (20%)
3. Protocols and delegates are used correctly to pass values back and forth. (30%)
4. The titles of the `User Name` button and the `Gender` button are updated after editing. (30%)
5. **If the app does not build and run, ZERO points will be given.**
6. The Coding Standard is followed. One point deducted for each violation.

### 4 General criteria

1. I will be looking for good documentation, descriptive variable names, clean logical structure, and adherence to all coding conventions expected of an experienced programmer, as well as those outlined in the Coding Standard document. There will be penalties for failure to meet these standards.
2. Your code must compile and run before submission.
3. Xcode will automatically generate standard headers to your .swift files. Add two lines to each Swift file that list your EID and the course number, so that the header looks like the following:

```
//  
// Filename  
// LastnameFirstname-HW3  
// EID: xxxxxx  
// Course: CS371L  
//  
// Created by xxxxxx on x/xx/18.  
// Copyright 2018 xxxxxx. All rights reserved.  
//
```