**Assignment 6**

**Points 30**

**Please follow the following instructions to complete this assignment.**

1. Open Xcode from the launchpad of your mac.
2. Click on create a new Xcode project. Select the iOS template and click on the App application.
3. Click on next which will prompt you to choose options for the project.
4. Provide product name as **Lastname\_UniversityApp**, “**nwmsu**” for organization identifier, “**storyboard**” as interface and swift as language.
5. Click on next and select an appropriate location to save your app and click on create. A project directory will be loaded.
6. When you are done with selecting the location of the project on your local storage, moving further you can see project settings screen. Set your **Project Format** to “Xcode 13.0-compatible” in your Project Document settings.
7. Now look into **Deployment Info** settings on the same project settings and set it to “ios 15.5” and make sure to check iPhone and iPad. Check below image and highlighted portion with red and follow accordingly.

Graphical user interface, application

Description automatically generated

1. **Note:** Follow the exact instructions given and don’t modify any other settings as it causes application not to run in different machines.
2. From the project navigator click on “Main” file, a blank mobile screen will be loaded where the required fields for an app need to be added.
3. Click on the storyboard then select editor from the top panel options, click on embed in option from the list and select navigation controller.
4. Rename the View Controller file to **UniversitiesViewController.**
5. Following image demonstrates the above step. Once the navigation controller is selected navigation controller scene should be visible in the storyboard.

Graphical user interface, text, application, chat or text message

Description automatically generated

1. Now let’s add a Table View and set top, left, bottom and right constraints to 0. Now go to the attribute inspector of table view and select the prototype cell to 1. Now give the identifier to the cell as “**domainCell**”. Now while making a connection to the View Controller, give the name for the outlet as **universitiesTableView**.
2. Now from the library in the Main add a new View Controller. Now right click on the project, create a new file, select Cocoa Touch Class and select next. Now select the class as UniversityListViewController. Now in the identity inspector of the newly added view controller, give the name of the class as “**UniversityListViewController**”. Drag a Table View and set top, left, right and bottom constraints to 0. Select the prototype cells to 1 and in the give the name of the identifier of the cell to “**listCell**”. Now give a connection in the UniversityListViewController for this table view and name it as “**universityListTableView**”. Create a segue from the table view of **UniversitiesViewController** and name the identifier as “**listsSegue**”.
3. Now Create another view Controller and create a new Cocoa Touch Class and give the name as **UniversityInfoViewController**. In the identity inspector of the view controller give the class name as UniversityInfoViewController. Now add an image, button and a textView with height 150. Now add your own constraints to all the objects so that the View is adjustable in all the mobiles. While making the connections, give the name of the image as universityImageViewOutlet, button as showInfoAction (IBAction) and the textview as universityInfoOutlet. Create a segue from the table view of **UniversityListViewController** and name the identifier as “**universityInfoSegue**”
4. We use structs for populating the data. Create a new swift file and name it as “**Universities**”. Inside the **Universities** struct create 2 variables ***domain*** and list\_Array of type **“****UniversityList”.**
5. Now create a new struct in the same Universities file but outside the Universities struct and name the struct as “**UniversityList”.**
6. The **UniversityList** struct contains 3 variables one is **collegeName**, **collegeImage** to display the image and **collegeInfo** a brief description about the university.
7. Create an array with atleast 4-5 domains for Example: “Computer Science”,”Data Science”,”IT” etc. Create atleast four domains.
8. Create atleast 5 universities for each domain with appropriate images and information about the university.
9. Refer **StudentApp** for generating the data and how to pass array into the view controller.
10. Whenever we click any row in **UniversitiesViewController**, we need to get the universities related to the domain in the next view controller i.e., **UniversityListViewController**.
11. Image should be animated when displaying. Refer to the demo video for the animations provided in this assignment zip file.
12. When we click on any item in **UniversityListViewController** it should navigate to next Controller i.e., **UniversityInfoViewController** and the image related to the university must be displayed. When we click on the button get Info, we need to get the details related to the university in the textView.
13. Display domain name as title in the (**UniversityListViewController**) and university name as the title in the (**UniversityInfoViewController**). Use **self.title** in the viewDidLoad() to change the title.
14. Find the sample images below.

Graphical user interface

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Graphical user interface, text, application

Description automatically generated

Graphical user interface

Description automatically generated

**Please submit your app as compressed file, your compressed files should contain Lastname\_ UniversityApp folder and Lastname\_UniversityApp.xcodeproj file. Please check your submission by downloading the submitted file and rechecking in xcode.**