

## CMPS 251 Tutorial 8 – Fall 2019

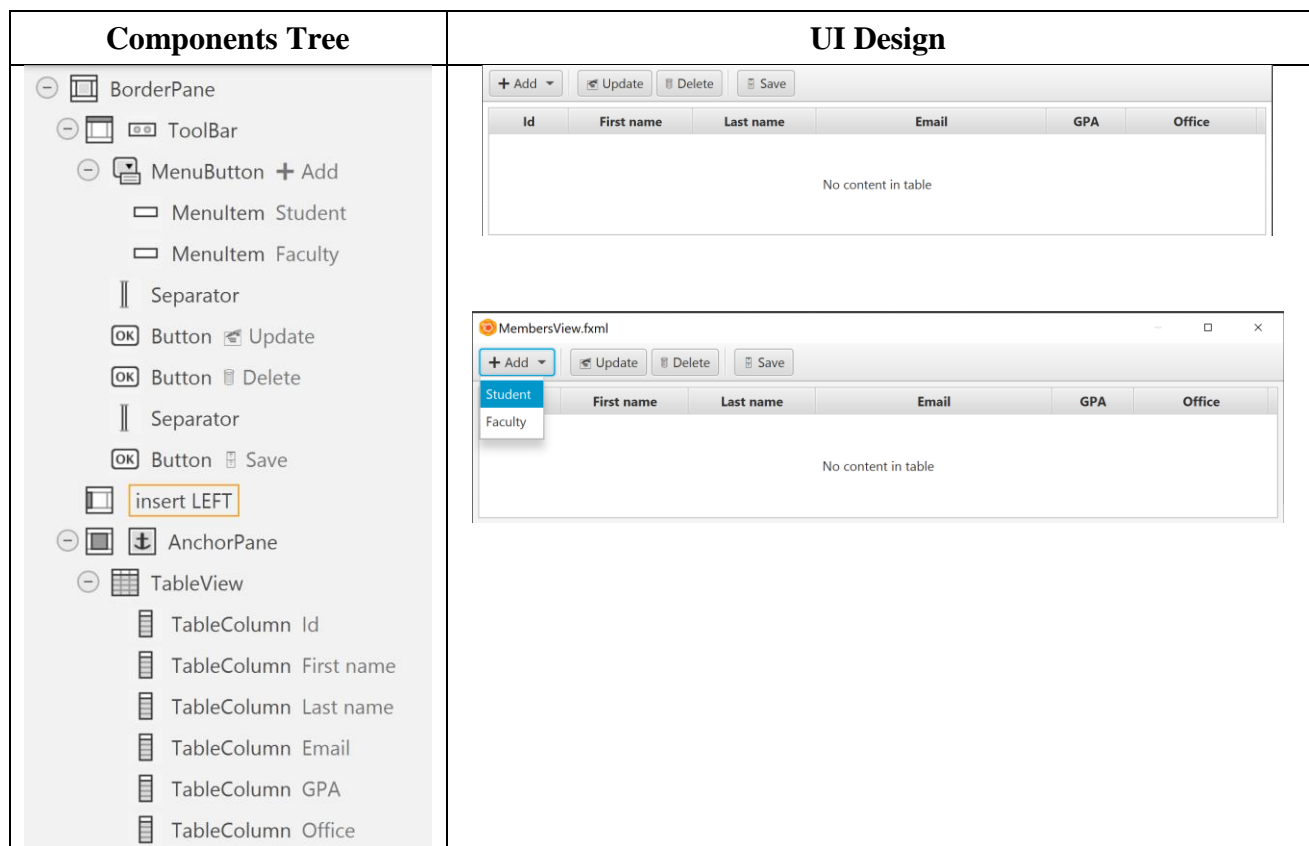
### Building MVC-based App using JavaFX

Create the UI of **Members App** that allows the list, add, update and delete a member. Note that a member could be either a Student or a Faculty.

#### 1) List members in a TableView:

Create a UI to allow the users to list the members returned by the provided `MemberRepository.getMembers()`

First create **MembersView.fxml** then the associated controller named **MembersController.java**



- When the view is loaded fill the membersTable with the members returned by `MemberRepository.getMembers()`
- When the user clicks Save the app should save the list of members using `MemberRepository.saveMembers` method.
- When the user clicks Delete the app should request the user's confirmation then delete the member from members observable list.
- When the user clicks Add/Update the app should display add/update Member dialog to allow the user to add/update a student or a faculty.

The complete MembersView UI should look as shown below:

Member App						
<div> <span>+ Add</span> <span>Update</span> <span>Delete</span> <span>Save</span> </div>						
Id	First name	Last name	Email	GPA	Office	
1	Ali	Faleh	ali@example.com	2.5		
5	Khadija	Saleh	khadija@example.com	3.8		
10	Mariam	Salem	mariam@example.com	3.6		
20	Abbes	Ibn Firnas	abbes@example.com		C07-Fun Room	

## 2) Add/Update member using a DialogBox

Create a UI to allow the users to add/update a student or a faculty. First create **MemberEditor.fxml** then the associated controller named **MemberController.java**

Components Tree	UI Design
<ul style="list-style-type: none"> <li>DialogPane <ul style="list-style-type: none"> <li>insert HEADER</li> <li>GridPane (2 x 6) <ul style="list-style-type: none"> <li>Label (0, 0) Id</li> <li>Label (0, 1) First name</li> <li>Label (0, 2) Last name</li> <li>Label (0, 3) Email</li> <li>TextField (1, 0)</li> <li>TextField (1, 1)</li> <li>TextField (1, 2)</li> <li>TextField (1, 3)</li> <li>Label (0, 4) GPA</li> <li>Label (0, 5) Office</li> <li>TextField (1, 4)</li> <li>TextField (1, 5)</li> </ul> </li> </ul> </li> </ul>	

The complete MemberEditor UI should look as shown below:

Update Student

Id

First name

Last name

Email

GPA

OK

Cancel