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3380-Object_Oriented_Design

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Github_link: <https://github.com/nicksettoon/3380-xCourse>

xCourse Documentation

Setup:

Open the app in visual studio code (Do this by opening the solution file which has the name xCourse.sln). You will need to run two commands in the Package Manager Console to initialize and seed the local database.

Add-Migration InitialCreate -Context xCourseContext

Update-Database -Context xCourseContext

After running these commands you can run the application by hitting the Express IIS Button on the top header of Visual Studio. This will open a chrome web browser directed to the xCourse Homepage. Once the page loads you can now navigate the site.

Usage:

Plan:

From the homepage you can navigate to the Plan page by clicking the Plan button in the top navbar. Once there, you will see an empty page with a side navigation bar where you will select a degree that you wish to view its flowchart, however for the sake of time, we only implemented Computer Science Second Discipline and Computer Engineering. Once you click on the degree name the page will reload and the flowchart will generate. You can observe the flowchart in whole.

Compare:

Also on the top nav bar is the link to the compare page. Once the page loads you should see the Computer Science Second Discipline flowchart on the left and a blank flowchart on the right. There will be a card area where you can select the secondary flowchart that you would like to compare your current flowchart to. You can select the

secondary flowchart and press the submit button to generate the second flowchart which will appear to the right of the first one. Note that the reason the Computer Science Second Discipline flowchart appears first is because we are using the use case that the current global user has that as their major, which allowed us to create this application without implementing a copy of LSU's Identification Provider

Unit Tests:

Our unit testing is in the same solution in the project named xCourseTests. They are in the class DegreeDatabaseTest.cs. We have three tests based on our sequence diagram. They require the database to be set up, the steps to do so are at the beginning of this document. Our app relies on this database to produce accurate data so that our generated flowcharts are correct.

This is a document from Microsoft on how to run the unit tests.

<https://docs.microsoft.com/en-us/visualstudio/test/walkthrough-creating-and-running-unit-tests-for-managed-code?view=vs-2019>