CS 102 *Spring 2020/21*

Project Group **G2C**

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Criteria	TA/Grader	Instructor
Presentation		
Overall		

~ LabConnect ~

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UI Design Report

(version 0.1)

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1 Introduction to LabConnect

LabConnect is a developing project that aims to make education more productive for students, and more efficient for teaching staff, among other benefits. The feature list compiled for the sake of this goal includes items such as:

- Queueing system for live sessions to optimize wait times and student-TA communication
- Dashboard designed with a pragmatist mindset, to lessen confusion as much as viable
- Instructor panel where new assignments can be added with great flexibility
- Analysis view for students and teaching staff alike, to monitor course progress
- Announcements board where the teaching staff can reach out to students with ease
- Simple one-to-one messaging capability for the sake of light written communication
- Note-taking panel for students to take concise notes regarding individual assignments

- Detailed view of submission versions where students and the teaching staff can observe automated testing results

Though the above is not an exhaustive list of features, it does nonetheless capture the gist of the features this project proposes in order to undertake its goal of optimizing the assignment portion of a computer science course. For a more extensive summary of this project, refer to the requirements report published earlier.

2 Regarding the UI Design Report

The document herein contains details and illustrations from 12 application views in total, but certain disclaimers have to be made regarding the accuracy of these illustrations. LabConnect is planned to be a web application, built with established modern web design paradigms in mind. However, web pages, particularly those that strive to be designed responsively for the sake of usability on a distinct range of devices, are not easy to make *static* prototype designs of. Along with this factor, another aspect affecting the UI design process is the fact that as LabConnect is an application with a large volume of interaction between people, which may take place at severely differing times, an unavoidable need to display certain elements only in very specific instances appears. In other words, the project at hand is of such nature that it cannot be *accurately* put on display before an actual development of the interface, via the use of dynamic web technologies such as CSS and JavaScript, is in process.

As a side note, the development of the interface also depends directly on the implementation of the feature set, as the need for elements on the page will originate from the structures designed on the server application side of the project, which are highly liable to change as the back-end code undergoes development. An example of this phenomenon is the analysis view presented to the users, which is dependent highly on core features being implemented first, because only then can the data to be put on display be ascertained, and the interface thereof finalized.

The UI design of LabConnect was completed with the above considerations in mind, which is to mean that the design was developed for the sake of having a guide to refer to when the necessity arises, rather than being developed for the impractical sake of being an accurate finalized version of the interface.