

Programming

University of Victoria Engineering Competition
November 4th, 2018

Scenario

Background. Therefore, a proposal has been made looking for a proprietary communication platform for their firm.

This challenge allows for any language to be used which can achieve the task specified. Amendments of varying degrees may be issued to the original specifications up to an hour prior to the submission deadline, as a reflection of the changing business conditions. This could include the addition, removal, or modification of certain features or aspects outlined.

Your team is required to create a program allowing for communication between users. The application can be accessible by browser, some proprietary interface, or by console. There is an existing user credential database which has been requested to be used, provided to you in a CSV format. It is recommended the application is planned out and coded in a manner conducive to ease of maintenance.

Specifications

The application must allow for text based communications between users in a chatroom environment.

The application must require user authentication, using the credentials provided. Passwords or sensitive data should be securely stored.

The application must be accessible via a browser, standalone application, or a console.

Deliverables

Your team will deliver the code and a presentation to TaeHun Kang by end of lunch - Time may be extended pending order of judging. The code should be clearly commented, and may be accompanied by additional documentation to aid in understanding the code. The report will be read by the judges before the presentation and must be able to be understood without background knowledge of the existing bike infrastructure. The presentation should focus on the process that the team followed to come up with its solution.

Rules

The deadline for submissions may be moved later, depending on judging of other events. All teams will receive notification of these changes via email at the same time. The deadline will not be moved earlier, unless all teams agree.

All work that the team did not do themselves, must be clearly cited as such. This includes any and all libraries used in the creation of your program. References should be in IEEE format, or other academic format.

No information that is not in the report or presentation slides that are submitted should be discussed during the presentation.

Judging Rubric

SOLUTION: /70

Code Clarity/Organization:	/10
Security Level of Code:	/10
Ease of Use (Interface):	/15
Basic Functionality :	/20
Implementation of Amendments:	/15

REPORT: /15

Clarity, Writing Style and Professionalism:	/10
Explanation of Code:	/10

PRESENTATION: /15

Voice and Articulation:	/7.5
Explanation of Process:	/7.5