**Code Review: Web Final Project**

You have been randomly paired with another one or two student(s). Check the Groups tab of D2L for your partner. Use GitHub to share your final project code with each other.

Each of you should fill out this worksheet for the other student.

**Estimated time: 2 hours.**

For each of these questions, please fill out your notes and answers in this worksheet, **and also** discuss with the other student.

1. Can you clone/fork their project from GitHub? Are all needed resources present?
2. Review the other student’s code. Ask questions if you need help understanding their design. How is the overall code quality?
3. Discuss the design of your application with the other student. Explain your code, and why you designed it the way you did. Tell them about bugs you know about.
4. Think about the design of the other student's application. How modular, flexible and adaptable is the code? How easy is it to understand their code?
5. Run their application and test the features. Did you find any bugs? Record them in the table below.
6. How easy is it to use their program? Should they modify their views to make it easier to use their program?
7. Look at input validation and error handling. Is there anything that could be fixed or improved?
8. Look at their database models. Does their schema make sense?
9. Record two things that you like about the other student’s code in the table below.
10. Record two things that you are confused by, or don’t understand, or think that could be improved. You should discuss these with the other student, and discuss your idea/suggestions on how they could be improved.
11. Do you have any questions about how to implement any of the features in your application? Ask the other student for input, thoughts and suggestions.
12. What should the other student make a priority to get a good grade on this project?

**When you are done, give the code review worksheet to the other student. You should keep the code review worksheet for your own code.**

|  |  |
| --- | --- |
| 1. GitHub: Is it possible to pull the other student's project from GitHub? Does it have all the files? Does package.json for client and server have all of the correct dependencies? What do you need to do to run the project? Is there anything the other student needs to add to the repository? Is there anything the other student must provide specifically (e.g. API keys?)  **--- This is important – you must fix any issues here before you submit your project!** | |
|  | |
| 2. Code quality: did you find any instances of the following? Where? | |
| Repetitive code |  |
| Untidy code |  |
| Redundant code, unused code |  |
| Excessively complex code |  |
| "Spaghetti code" – modules that depend on an excessively large number of other modules |  |

|  |
| --- |
| 3. Modularity – how modular is this code? How focused is each part of the code? How independent is each module? For example, on the server, are the routes grouped into logical groups in separate files? On the client, are Vue components used appropriately, or is there one large component? Can you see any areas for improvement? Think about how easy it would be to modify this code? |
|  |
| 4. Make a list of bugs or issues you found (ignore known bugs) |

|  |
| --- |
| 5. Client-side design – focus on function. (Comment on appearance/design only if the other student specifically asks you about it). How easy is it to understand and use? Are the page elements arranged logically? What about the flow between pages? Is validation used when needed?  Is CSS used appropriately? |
| 6. Client-side JavaScript/CSS. Does it work? Open the Developer console and check for errors. Do 3rd party libraries, (Bootstrap, Leaflet…) if used, load properly? |

|  |
| --- |
| 7. Is input validation sufficient? Is error handling sufficient? Ensure that the server is handling errors. Client-side validation should only be for the convenience of the user. Handle DB errors and do something sensible with them. How is the client notified of server errors? Is there anything that needs improvement? |
| 8. How is the database set up and structured? Does the schema follow a logical design? |

|  |
| --- |
| 9. Two (or more!) things you like about the other student’s project – please explain why |
| 1. |
| 2. |

|  |
| --- |
| 10. Two things that could be improved about the other student’s project - please explain why |
| 1. |
| 2. |

|  |
| --- |
| 11. What should the other student make a priority to get a good grade on this project? |

|  |
| --- |
| 12. Deployment. Is the project deployed to Heroku? Does it run correctly? |

|  |
| --- |
| 13. Any other comments or feedback to share? For example, other things you thought were done well? |

**Please give this worksheet to the other student.**

**CHECK OUT WITH CLARA BEFORE YOU LEAVE FOR CREDIT FOR THIS ASSIGNMENT**