

**CIS 4250 – Software Design V**  
**Instructor: Prof. S. Scott**  
**Individual Accountability Report (IAR) Template**

**Q1. Student Name:** Ben Turner-Theijsmeijer

**Q2. Student ID:** 1152536

**Q3. Associated Team Deliverable:** Sprint 1

**Q4. Team #:** 5 (section 2)

**Q5. What were the main technical or methodological knowledge, skills and/or abilities (KSAs) that were required to complete this team deliverable? What prior courses or experiences (e.g. co-op, group project, etc.) from your Software Engineering degree did you draw on for these KSAs? (bulleted list is preferred):**

- Code Review and Refactoring
  - CIS\*3190, 3760, and co-op
- Story creation and management
  - CIS\*2250, 3750, and 3260
- Git project management and configuration
  - CIS\*3760 and co-op
- HTML, CSS, and JavaScript knowledge
  - CIS\*2750 and 3760

**Q6. What was your existing level of experience with these topics/skills before your team began working on this deliverable? (1-2 sentences):**

Going into this sprint I had prior knowledge and experience in all these areas as they had all come up in pervious courses, group projects, and in my co-op placements. This gave me a good starting point from which to begin work, but I was given a chance to use them again here and learn more.

**Q7. Comment on your individual KSAs learning during this deliverable, and what additional learning may be needed to understand or be more competent with these topics / tasks in the future?**

The biggest point of learning for me this sprint was with my JavaScript knowledge, in previous courses such as CIS\*2750 we had to work with HTML, CSS, and JavaScript but at the time it made no sense to me, and I did poorly on those assignments. I got another chance to work with them in CIS\*3760 but in that group project I was not the lead developer working on the JavaScript so while I did improve there was much, I still did not understand. This sprint I along with Emily undertook refactoring the original JavaScript code into a new OO based design, this was the first time I really felt as though it made sense, and I learned a lot about how the three work together to make a cohesive web experience. However, I still have a lot to learn about the

DOM and other facets of web development going forward and the best way to learn more is to continue to work with it until it becomes more natural.

**Q8. What specific contributions did you make to this team deliverable? This should include technical or project management contributions.**

- The whole team worked together to do the following:
  - Deciding what tasks, we wanted to pull into sprint 1 and assigning work
  - Reviewed, refined, and added to the backlog when appropriate
  - testing
- I worked on the following:
  - Refactoring of the original codebase (Issue 4)
  - Reviewing and merging branches

**Q9. With whom did you collaborate for any of the above contributions (be specific – saying “all team members” is not sufficient. State which parts you worked on with whom)?**

- *NOTE:* Due to the size of the refactoring tech story, (originally weighted at 20 hours but taking approximately 30 hours) it took up the entirety of our time this sprint and because it took us 3-4 days to finish it other group members such as Jeremy and Jennifer had to branch off of our in progress refactoring branch to work on their user stories.
- For the code refactoring Emily and I work together both pair programming, and splitting the work evenly between ourselves and implementing separately but in the same branch to accomplish:
  - the new file structure
  - Creation of new classes to hold the functionality of the old script.js file (containing all the js code)
  - Ported all the functions in script.js into the classes that best fit their function
  - refactoring the code based on OO principles such as single responsibility
  - Jennifer and Jerremy helped review our changes and fix bugs that were discovered along with styling problems
  - Jennifer added the buttons for updating and canceling a task edit
- Creation and Review and of merge requests:
  - Jennifer and Sara were the main contributors here
  - I made the refactoring merge request (issue 4), Emily then Marked it as ready, and merged it
  - I reviewed an/or fixed merge conflicts in (issue 60), and (issue 30)

**Q10. Comment on how well you managed your time over the time period allocated in the Course timetable to this team deliverable (i.e. the time between the prior team deliverable to this team deliverable).**

Our group began working on this Sprint on Tuesday February 4<sup>th</sup> during the lab time. After discussion and allocation of tasks during the lab Emily and I got to work on our assigned user

story the next day as the rest of Tuesday was very busy with other responsibilities. We then worked as quickly we could to get the refactoring done as much of the other work we had planned to do for that sprint required that the code be refactored before it was implemented so it was very high priority. As such I think I did a good job this sprint of managing my time and ensuring that my work was done in a timely manner.

- Wednesday February 5<sup>th</sup> Emily and I worked together pair programming for 2 hours, then branched off to each try and make a working implementation of the refactored code then reconvene to discuss them and then combine our best work from both (3 hours)
- Thursday February 6<sup>th</sup> work in lab for 2 hours and then spent 4 hours refactoring the code to de-spaghettify the various functions and get the functionality working fully.
- Friday February 7<sup>th</sup> spent 3 hours reviewing changes, testing to make sure things were working, and breaking functions down to better follow single responsibility and encapsulation
- Saturday February 8<sup>th</sup> spent 2 hour deleting old code and comments to clean up the codebase and creating the merge request
- Saturday to Tuesday of sprint demo, switched to a support role reviewing and providing input were requested