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

Note. Refer to the Project Manual for detailed instructions for IAR submissions.

Individual Accountability Report (IAR) Template
The following questions MUST be included and answered completely for each submitted IAR.

IAR must be submitted one of the following file formats: text or PDF.

Q1. Student Name: Corey Martin

Q2. Student ID: 1158729

Q3. Associated Team Deliverable: Sprint 3

Q4. Team #: 4

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):

The main KSAs needed for this sprint were typescript and node package management, testing with Jest and setting up virtual browsers for testing with selenium. Setting up Gitlab CICD pipelines using docker images.

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

I have some experience with Selenium and Jest testing from my project in Software Engineering 3. I had some experience with Node and Selenium and I had no experience with CICD.

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?

During this sprint I discovered that the process for setting up a CICD pipeline is more complicated than I previously thought. In order to overcome this I need to learn significantly more about working with node packages and Selenium specifically. Also I may need to learn how to create a custom docker image so that I can get things working on the pipeline.

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

I set up the jest test environment for the project so that the process for creating running and validating tests is simple, and eventually will cover all existing components. I also set up the Selenium environment so that the tests could use a virtual browser to validate the websites functionality, this required a significant amount of work because Selenium must be manually setup on each machine. I completed research on the requirements for a CI/CD pipeline, but I was not able to create a working implementation during the sprint.

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)?

I worked with Matthew on setting up the test environment for other group members. We were not able to get the tests working on other computers before the end of the sprint but learned that the current selenium setup is more complicated than expected. I gathered information from all other members of the team on what their specific needs are for testing, Matthew specifically helped me to determine which components needed testing.

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).

During this deliverable I managed my time despite a very busy course load during the sprint. I however should have worked on setting up the test environment earlier in the sprint so that in addition to getting test requirements from other group members, I would have been able to work with them to implement the tests during this sprint. I also should have done research and started my tasks earlier in the sprint, since things turned out to take much more work than expected. It was because of this that I wasn't able to get the rest of my team with a working implementation of the demos on their own machines, which should have been made into a task of its own. I believe that I did enough work this sprint, I managed to catch up in all my other courses so that I could fully dedicate my time to working on my tasks for the entire weekend leading up to the demo.