

Dana Merry Engineering Notebook

Vetronica Cybersecurity Analysis Tool

December 7, 2023

Embry Riddle Aeronautical University

Week 1 (Sept. 12)

- **Completed Work**
 - I was assigned to a project for the semester.
 - I met my teammates and we began discussing different approaches to the project.
 - Set up the GitHub so we can share our work there.
 - Learned about Model Based Systems Engineering.
 - Learned about the purpose behind this project.
- **Incomplete Work**
 - We just began the project so nothing applicable here.

Week 2 (Sept. 19)

- **Completed Work**
 - Continued doing research on Model Based Systems Engineering to understand the ins and outs of it.
 - Completed the Product Vision Statement and Product Backlog.
 - Continued doing further research on cybersecurity tools.
 - Provided my MAC Address to acquire my MagicDraw license
- **Incomplete Work**
 - I did not finish completing the SRS.
 - I did not finish completing the SDS.

Week 3 (Sept. 26)

- **Completed Work**
 - Completed work on the SDS.
 - Helped in coming up with some requirements to begin work on the SRS.
 - Completed work on the SRS.
 - Divided ourselves into teams for MagicDraw and for Capella.
 - Continued research in MBSE.
 - Began reviewing the work provided to us by our Product Owner on Discord.
- **Incomplete Work**

- Did not acquire MagicDraw license. Still waiting on this.

Week 4 (Oct. 3)

- **Completed Work**
 - Completed our Sprint 1 Demo.
 - Completed the presentation for the demonstration.
 - Continued work in designing our project requirements.
 - Continued research into MagicDraw.
 - Continued research into MBSE.
- **Incomplete Work**
 - Did not begin research on other cybersecurity analysis tools.
 - Did not begin work on hardware and software system requirements.
 - Did not acquire MagicDraw license. Still waiting on this.

Week 5 (Oct. 10)

- **Completed Work**
 - Completed my Sprint 1 peer review
 - Began to do work on our first iteration of the Test Plan
 - Continued to do research on MagicDraw
 - Continued to do research into MBSE.
 - Continued work in coming up with requirements.
 - Began research into other cybersecurity tools.
- **Incomplete Work**
 - Did not acquire MagicDraw license. Still waiting on this.

Week 6 (Oct. 17)

- **Completed Work**
 - Completed the first iteration of the Test Plan.
 - Continued research into MagicDraw.
 - Continued research into other cybersecurity tools.
 - Continued coming up with requirements.
 - Doing research on the Rust Programming Language (this was when we thought we were going to be coding this semester)
- **Incomplete Work**
 - Did not acquire MagicDraw license. Still waiting on this.
 - Did not get started writing code to learn the Rust language.

Week 7 (Oct. 24)

- **Completed Work**
 - Began research into MagicDraw plugins
 - Finally acquired my MagicDraw license despite half a semester of waiting.
 - Began writing code in Rust to learn the language.
 - Continued research into cybersecurity tools.
 - Continued in coming up with requirements.
- **Incomplete Work**
 - Did not complete the SRS v2.
 - Did not complete the SDS v2.
 - Need to begin work on the next sprint demo.

Week 8 (Oct. 31)

- **Completed Work**
 - Completed the SRS v2.
 - Completed the SDS v2.
 - Completed the Sprint 2 Demo.
 - Completed the Sprint 2 Peer Evaluation
 - Continued learning the MagicDraw tool.
 - Continued research into cybersecurity tools.
 - Continued research into MagicDraw plugins.
 - Continued in coming up with requirements
- **Incomplete Work**
 - Need to begin creating models in MagicDraw once familiarity is gained with the software.

Week 9 (Nov. 7)

- **Completed Work**
 - Continued research into MagicDraw plugins.
 - Continued to learn MagicDraw.
 - Began designing some sample models to understand the software better.
 - Continued helping come up with requirements.
 - Began to work on a gameplan for our project's implementation
- **Incomplete Work**
 - Did not do research into cybersecurity tools this week, prioritized MagicDraw.
 - Need to begin work on SRS Final
 - Need to begin work on SDS Final

- Need to begin work on Test Plan Final.

Week 10 (Nov. 14)

- Completed Work
 - Continued research into MagicDraw plugins
 - Continued learning MagicDraw.
 - Completed sample models to give me an understanding of the software.
 - Continued helping come up with requirements.
- Incomplete Work
 - Need to begin working on models for the project now that I understand the software.
 - Need to complete SRS.
 - Need to complete SDS.
 - Need to complete Test Plan.

Week 11 (Nov. 21)

- Completed Work
 - Completed the Final SRS
 - Completed the Final SDS
 - Completed some Block Definition Diagrams for some of the requirements in MagicDraw.
 - Continued to do research into MagicDraw plugins.
- Incomplete Work
 - Need to begin the Sprint 3 Demo
 - Need to complete the final test plan.

Week 12 (Nov. 28)

- Completed Work
 - Continued designing diagrams in MagicDraw.
 - Continued doing research into MagicDraw plugins.
 - Continued helping come up with requirements.
- Incomplete Work
 - Need to complete the Final Demo.
 - Need to complete the Final Test Plan.
 - Need to complete the 3 minute video.
 - Need to complete the Engineering Notebook.

Week 13 (Dec. 5)

- Completed Work

- Completed a few more diagrams in MagicDraw (Use Case Diagram, Requirements Diagram, etc.)
- Continued research into MagicDraw plugins.
- Completed the Final Demo.
- Completed the Final Test Plan.
- Completed the 3 minute video.
- Completed the Engineering Notebook.

- Incomplete Work

- Nothing at this time. Onto next semester 😊