**Sprint Review Report – Team Portion**

**IOWR-NIDS**

**Sprint dates: 2/5 – 2/16**

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| **Team Member** | **Role** |
| Andrew | Team Leader |
| Alex | Machine learning development, Scrum logger |
| Joe | Front end development |

**Point Scale:**

The priority letter (A-F) identifies what priority we assign to each user story. A is the highest priority; tasks with it need to be done soon, and F is the lowest priority, such as for tasks on the backburner.

The number aspect is the expected time. It’s a rough estimate of weeks that we expect the task to take.

Points should be written in the form A3, where it is priority “A”, and we expect the task to take 3 weeks to complete. A dash “-” is used for the expected time when a task is continuous.

**Backlog**

The backlog of user stories that we are not currently working on.

**Story 3:** As a network administrator, I want to see the unknown network packets so that I can improve the model training.

**Task 5:** Provide a way to save re-identified packets.

**Points:** D

**Members assigned:** Joe, Andrew

**Story 4:** As a network administrator, I want see how well the model is working so that I can tell when it needs to be re-trained.

**Task 2:** Identify a method of finding model reliability.

**Points:** D4

**Members assigned:** Alex, Andrew

**Task 3:** Display model reliability on UI.

**Points:** C2

**Members assigned:** Joe

**Story 11:** As a developer, I want to make sure it is clear how to run the program so that it is useful to others.

**Task 1:** Write a usage manual.

**Points:** A4

**Due date:** 3/??/2024

**Members assigned:** None

**Task 2:** Write a technical report on the capabilities of the system.

**Points:** A4

**Due date:** 3/??/2024

**Members assigned:** None

**Task 3:** Determine the scale of the expected network in deployment.

**Points:** B2

**Due date:** 3/??/2024

**Members assigned:** None

**Task 8:** Write and create a user video.

**Points:** A2

**Due date:** 3/??/2024

**Members assigned:** None

**New/Pending**

**Story 11:** As a developer I want to make sure it is clear how to run the program so that it is useful to others.

**Task 8:** Write and create a user video.

**Points:** A2

**Due date:** 3/??/2024

**Members assigned:** None

**Ready/In-Progress**

**Story 2:** As a network administrator, I want to utilize a graphical user interface so that I can easily monitor the network.

**Task 5:** Implement the model page with Dash.

**Points:** C2

**Due Date:** 2/24/2024

**Due Date:** In-progress

**Members assigned**: Joe

**Task 6:** Implement timeline filter functionality.

**Points:** C2

**Due Date:** 2/10/2024 (overdue)

**Status:** In progress

**Members assigned**: Joe

**Task 8:** Store model information data in the database.

**Points:** B2

**Due Date:** 2/23/2024

**Status:** In-progress

**Members assigned**: Joe, Alex

**Story 7:** As a network manager, I want to select old models so that we can revert problems if they occur.

**Task 4:** Update Dash for new model.

**Points:** A3

**Due Date:** 2/23/2024

**Status:** In-progress

**Members assigned:** Joe, Alex

**Story 11:** As a developer, I want to make sure it is clear how to run the program so that it is useful to others.

**Task 5:** Encapsulate program in Docker container.

**Points:** A3

**Due date:** 3/1/2024

**Status:** In Progress

**Members assigned:** Andrew

**Task 6:** Create a good base model to include.

**Points:** A2

**Due date:** 2/16/2024 (overdue)

**Status:** In Progress

**Members assigned:** Andrew, Alex

**Active/Ready for review/Complete**

**Make sure to put the Complete stories/tasks before the Ready for review and before Active.**

**Story 11:** As a developer, I want to make sure it is clear how to run the program so that it is useful to others.

**Task 7:** Create a temporary launching script.

**Points:** D1

**Due date:** 2/4/2024

**Status:** Complete

**Members assigned:** Alex, Andrew

**Story 2:** As a network administrator, I want to utilize a graphical user interface so that I can easily monitor the network.

**Task 7:** Implement Network graph.

**Points:** C2

**Due Date:** 2/8/2024

**Status:** Complete

**Members assigned**: Joe

**Backburner**

**Story 1:** As a practitioner, I want to understand the project so that I can complete the project.

**Task 1:** Attend meetings.

**Points:** A-

**Due Date:** Continuous

**Status:** Active

**Members assigned:** Andrew, Alex, Joe

**Task 3:** Discuss with team.

**Points:** A-

**Due Date:** Continuous

**Status:** Active

**Members assigned:** Andrew, Alex, Joe

**Task 4:** Complete documentation.

**Points:** A-

**Due Date:** Continuous

**Status:** Active

**Members:** Andrew, Alex, Joe

**Story 6:** As a developer, I want to define more user stories so that we have better documentation.

**Task 1:** Define more user stories.

**Points: D-**

**Members assigned:** Andrew, Alex, Joe

**Task 2:** Update GitHub with new stories.

**Points:** C1

**Due Date**: Continuous

**Status**: Active

**Members assigned:** Andrew, Alex, Joe

**Task 3**: Keep sprint report up-to-date.

**Points**: C1

**Due Date**: Continuous

**Status**: Active

**Members assigned**: Andrew, Alex, Joe

**Scrum Meetings**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Date** | **Members Present** | **Progress** | **Challenges** | |
| February 5th | Andrew  Alex  Joe | Andrew – Docker stuff.  Joe – Model page.  Alex – Confusion matrix file save, model trained. Send email. |  | |
| February 7th | Andrew  Alex  Joe | Joe – Edited sprint report 6.  Andrew – Docker Progress minimal.  Alex – Working on viewing confusion matrix to help with training.  Plans for Friday:  Alex – Confusion matrix and model info for model page.  Andrew – Docker & Model training.  Joe – Model page. | Prior sprint reports were more informal.  Other schoolwork has gotten in the way. | |
| February 9th | Andrew  Alex  Joe | Alex – Got model info function done.  Andrew – Model trained.  Plans for Monday:  Make sure that the testing document is up to date –Everyone. |  |
| February 12th | Andrew  Alex  Joe | Model training in docker – Andrew.  Updated testing doc – Alex.  Plans for Wednesdays:  Alex – Find something to work on.  Andrew – Look at creating the rest of the docker files.  Joe – Populate model page. | Loss of sleep due to classes. |
| February 14th | Andrew  Alex  Joe | Working on the PowerPoint – Alex.  Python environment problems – Andrew.  Model page work – Joe.  Plans for Friday:  Andrew – Docker Database.  Joe – Model page run button.  Alex – Update the PowerPoint and model parameter structure update. | We have now reached the point where all the remaining tasks are difficult so progress may be slow. |
| February 16th | Andrew  Alex  Joe | Updated model config access method – Alex.  Docker for database – Andrew. |  |
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**Other Team Meetings (longer than scrum)**

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| --- | --- | --- | --- | --- |
| **Date** | **Platform (in person, Zoom, Slack, Discord, MS Teams..)** | **Members Present** | **Progress** | **Challenges** |
| 2/7 | In-Person | Andrew  Alex  Joe | Fixing last sprint report.  Discussion of how model training can be improved. | Other schoolwork has been difficult. |
| 2/14 | In-Person | Andrew  Alex  Joe | Discussion of future work and how model parameter information will be passed from the Dash model page to model training. | We are not sure which direction we should progress.  That made discussion difficult as the meeting was not able to be directed. |
| 2/16 | In-Person | Alex  Joe  Andrew | Planning for meeting. |  |

**Client Meetings**

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| --- | --- | --- |
| **Date** | **Members Present** | **Challenges/issues by the client** |
| February 16th | Andrew  Alex  Joe | Work on getting the program deployable in Docker.  We need to make a documentation guide and a video to walk user through running the program. |
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**Retrospective**

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| **Challenge** | **Resolution** | **Impact/Result** |
| School work. | Organize and communicate more. | Progress continues. |
| MVP model broke on Joe’s laptop minutes before the client meeting. | Present with a fairly-untrained model. | The model was sufficient for the purposes of demonstrating what we currently have. |
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**Retrospective – continuous improvement**

**State any completed goals for the current sprint (not only project goals, but team dynamics, issues resolved within the team or team/client work).**

The process of applying Docker continued, and we’re continuing to train the model on the more advanced hardware. The model page’s wireframe has been implemented with listing functionality.

**State any future goals for the next sprint (not only project goals, but team dynamics, issues resolved within the team or team/client work).**

We hope to make more progress on the Docker application. The model page should also see further implementation.