**Sprint Review Report – Team Portion**

**IOWR-NIDS**

**Sprint dates: 10/11 – 10/25**

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

Priority letter grade A-F that identifies what priority we feel should be assigned to each user story. Where A is the highest priority that needs to be done soon and F is the lowest priority for tasks that should be put on the backburner.

Expected time number grade is the roughly estimated number 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**

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

**Task 6:** Provide a way to retrain model from re-identified packets

**Points:** C2

**Members assigned:** Alex

**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

**New/Pending**

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

**Task 1:** Save Models as pth files.

**Points:** C3

**Members assigned:** Alex

**Task 2:** Select Model version using Dash

**Points:** C?

**Members assigned:** Joe

**Task 3:** Load Model from pth file

**Points:** B2

**Members assigned:** Alex

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

**Points:** A3

**Members assigned:** Joe, Alex

**Ready**

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

**Task 4:** Populate inputs and outputs with data from a middleman between itself and the model.

**Points:** C4

**Due Date:** 11/16

**Members assigned:** Joe, Alex

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

**Task 1:** Find Packets from network sniffer

**Points:** B

**Due Date:** 11/1

**Members assigned:** Andrew

**Task 2:** Identify packets using machine learning

**Points:** C3

**Due Date:** 10/27

**Members assigned:** Alex

**Task 3:** Classify packets as unknown if no classification exists

**Points:** C2

**Due Date:** 10/31

**Members assigned:** Alex

**Task 4:** Provide a way to view packet data

**Points:** B2

**Due Date:**

**Members assigned:** Joe

**Active/Ready for review/Complete**

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

**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 2:** Create Wireframes

**Points:** A1

**Due Date:** 10/25

**Status:** Ready for review

**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

**Task 5:** UML Diagrams

**Points**: B3

**Due Date**: 11/8

**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 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

**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 1:** Create a machine learning model

**Points:** A

**Due Date:** Undecided

**Status:** Active

**Members assigned:** Alex

**Story 5:** As a developer I want to get immediate feedback on the quality of my code so I can tell when I break something or new changes I make don’t work as expected.

**Task 1:** Implement automated unit testing

**Points:** A

**Due Date:** 10/11

**Status:** Complete

**Members originally assigned:** Andrew

**Members Completed:** Andrew

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

**Task 1:** Research Dash to understand its capabilities

**Points:** B2

**Due Date:** Continuous

**Status:** Active

**Members originally assigned:** Joe

**Members Completed:**

**Task 2:** Design Wireframes

**Points:** A1

**Due Date:** 10/19

**Status:** Complete

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

**Members Completed:** Andrew, Alex, Joe

**Task 3:** Implement the finalized wireframe using Dash

**Points:** B4

**Due Date:** 10/27

**Status:** Active

**Members assigned:** Joe

**Backburner**

**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**

**Scrum Meetings**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Date** | **Members Present** | **Progress** | **Challenges** | |
| October 11th | Andrew  Alex  Joe | Completed Sprint Report 1  Plans for Friday:  Wireframes (Andrew/Joe)  Model code (Alex) |  | |
| October 13th | Andrew  Alex  Joe | Worked on wireframes and code  Plans for Monday:  Implement wireframe (Joe)  Continuous logging of network/ Set up nice computer (Andrew)  Model code tests (Alex) | IP questions | |
| October 16th | Andrew  Alex  Joe | Plans incomplete  Plans for Wednesday:  Implement wireframe (Joe)  Continuous logging of network/ Set up nice computer (Andrew)  Model code tests (Alex) | Did not complete plans from monday |
| October 18th | Andrew  Alex  Joe | Plans incomplete.  Plans for Friday:  Finalize wireframe(joe) Network packet stuff (Andrew)  Format data output (Alex) | Other problems got in the way of doing the SDP document |
| October 20th | Andrew  Alex  Joe | Plans for next meeting:  Format data output (Alex)  New wireframe iteration(joe)  ???(Andrew) | Other classes took too long |
| October 23rd | Andrew  Alex  Joe | Not all goals accomplished. No goals assigned for next week | Failure to meet Scrum Goals |
| October 25th | Andrew  Alex  Joe | All goals accomplished | Need to complete Sprint Report  Midterms |

**Other Team Meetings (longer than scrum)**

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| --- | --- | --- | --- | --- |
| **Date** | **Platform (in person, Zoom, Slack, Discord, MS Teams..)** | **Members Present** | **Progress** | **Challenges** |
| 10/11 | In-Person | Andrew  Alex  Joe | Completed Sprint report 1 |  |
| 10/13 | In-Person | Andrew  Alex  Joe | Received IP file, reading it. | IP questions  What even is the SDP template. It looks insane. |
| 10/16 | In-Person | Andrew  Alex  Joe | Started work on SDP Document | SDP document is long |
| 10/18 | In-Person | Andrew  Alex  Joe | Finished SDP Document Draft |  |
| 10/25 | Discord | Andrew  Alex  Joe | Completed Sprint report review 2  Unified User Stories and GitHub Projects | Different user stories on Github, need to update  Midterms |

**Client Meetings**

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| **Date** | **Members Present** | **Challenges/issues by the client** |
| October 20th | Andrew  Alex  Joe | Multiple versions of the model to select.  Model integrity visualizations |
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**Retrospective (***At the end of the sprint a* ***Retrospective*** *should be held to see how the team is performing.* ***Psychological Safety*** *needs to be upheld at a Retrospective to ensure best results (hence no names in the table below.* ***Psychological Safety*** *occurs when everyone feels comfortable with speaking to everyone in the room. A study on Psychological Safety can be found with Google’s Project Aristotle. Go-to schedule for a Retrospective:*

*Check-in activity*

*Energizer*

*Review goals from last retrospective*

*Gather data*

*Determine goals for the next sprint*

*Check-out*

*Examples of each activity can be found at funretrospectives.com.*)

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| --- | --- | --- |
| **Challenge** | **Resolution** | **Impact/Result** |
| Midterms | Resolving to plan as much as possible | Delayed progress |
| Lack of presentable wireframe | Combine sketches into a presentable wireframe using Figma | Positive review of wireframe with more changes than fixes |
| Discrepancy between user stories and project management software | Copying user stories to GitHub Projects | Better overview of tasks to be completed and how they fit into the SRR |
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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).**

We completed our wireframe and had the client give us direction.

We achieved minimal model function in test cases. The code ran without breaking.

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

Our goals for next sprint are to develop UML diagrams to better understand how different parts of the project will interact with each other.