**Sprint Review Report – Team Portion**

**IOWR-NIDS**

**Sprint dates: 11/22 – 12/11**

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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 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:** F2

**Due Date:** Beyond MVP

**Members assigned**: Joe

**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 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

**Members assigned:** Joe, Alex

**New/Pending**

**Story 10:** As a practitioner, I want to show what we have done at the MVP presentations.

**Task 1:** Create PowerPoint

**Points:** A1

**Due date:** 12/3

**Status:** Complete

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

**Task 2:** Verify MVP works

**Points:** A2

**Due date:** 11/29

**Status:** Complete

**Members assigned:** Alex, Joe

**Task 3:** Record Demo

**Points:** A1

**Due date:** 12/3

**Status:** Complete

**Members assigned:** Joe

**Task 4:** Practice Presentation

**Points:** A1

**Due date:** 12/8

**Status:** Complete

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

**Task 5:** Practice Live Demo

**Points:** A1

**Due date:** 12/8

**Status:** Complete

**Members assigned:** Joe

**Task 6:** Present Work

**Points:** A1

**Due date:** 12/8

**Status:** Complete

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

**Ready**

**Active/Ready for review/Complete**

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

**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

**Status:** Complete

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

**Points:** B2

**Due Date:** 11/29

**Status:** Complete

**Members assigned:** Joe

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

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

**Points:** C?

**Due Date:** 12/8

**Status:** Complete

**Members assigned:** Joe

**Story 8:** As a practitioner I want to define packet structure and storage so that we can deliver data to project subsystems.

**Task 2: Store packets in Database**

**Points:** A2

**Due Date:** 11/29

**Status:** Complete

**Members assigned:** Andrew, Joe

**Task 4: Send packets to model**

**Points:** B2

**Due Date:** 12/1

**Status:** Complete

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

**Task 5: Store returned packets from model**

**Points:** B1

**Due Date:** 12/3

**Status:** Complete

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

**Story 9:** As a practitioner, I want to connect all of the independent components to make a whole system.

**Task 4:** Insert packets from the feed into the PACKET table

**Points:** B2

**Due date:** 11/29

**Status:** Complete

**Members assigned:** Andrew

**Task 5:** Instantiate a model for each connection.

**Points**: B2

**Due date:** 11/29

**Status:** Complete

**Members assigned:** Alex, Joe

**Task 6:** Run the packet feed through the model, inserting results into the PACK\_LABEL table

**Points:** B2

**Due date:** 11/29

**Status:** Complete

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

**Task 7:** Run through the entire pipeline to verify success

**Points:** A2

**Due date:** 11/29

**Status**: Complete

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

**Story 10:** As a practitioner, I want to show what we have done at the MVP presentations.

**Task 1:** Create PowerPoint

**Points:** A1

**Due date:** 12/3

**Status:** Complete

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

**Task 2:** Verify MVP works

**Points:** A2

**Due date:** 11/29

**Status:** Complete

**Members assigned:** Alex, Joe

**Task 3:** Record Demo

**Points:** A1

**Due date:** 12/3

**Status:** Complete

**Members assigned:** Joe

**Task 4:** Practice Presentation

**Points:** A1

**Due date:** 12/8

**Status:** Complete

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

**Task 5:** Practice Live Demo

**Points:** A1

**Due date:** 12/8

**Status:** Complete

**Members assigned:** Joe

**Task 6:** Present Work

**Points:** A1

**Due date:** 12/8

**Status:** Complete

**Members assigned:** Andrew, Alex, 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** | |
| November 22nd | Alex  Joe | Completed Sprint Report 4  Plans for Friday:  WORK ON DATABASE | Database not working yet | |
| November 27th | Andrew  Alex  Joe | Database working!  Time packet received (Andrew)  Start powerpoint (Alex)  Work on database (Joe) |  | |
| November 29th | Andrew  Alex  Joe | Powerpoint (Everyone)  More presentation stuff and automated start process(andrew) |  |
| December 1st | Andrew  Alex  Joe | Work on each person’s specific slides. | Powerpoint still does not look good  Looks better after meeting |
| December 4th | Andrew  Alex  Joe | Powerpoint done  Work on testing document |  |
| December 8th | Andrew  Alex  Joe | Prepare for presentation |  |
| December 11th | Andrew Alex  Joe | Final meeting this semester |  |

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Date** | **Platform (in person, Zoom, Slack, Discord, MS Teams..)** | **Members Present** | **Progress** | **Challenges** |
| 11/22 | In-Person | Alex  Joe | Finished Sprint report 4  Database work |  |
| 11/27 | In-Person | Andrew  Alex  Joe | Checkback that everything is working and decide on presentation format. |  |
| 11/29 | In-Person | Alex  Joe  Andrew (half meeting) | MVP works on Joe’s computer | Client not working on Alex’s computer  Model loading not working on Joe’s computer |
| 12/1 | In-Person | Andrew  Alex  Joe | Work on Powerpoint and powerpoint slide selection | Worry over upcoming presentation. |
| 12/4 | In-Person | Andrew  Alex  Joe | Talk about using C++ to speed things up. |  |
| 12/8 | In-Person | Andrew  Alex  Joe | Practice Presentation | Worry over presentation. |

**Client Meetings**

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| --- | --- | --- |
| **Date** | **Members Present** | **Challenges/issues by the client** |
| November 28th | Andrew  Alex  Joe | Option to set the Threshold  Source and destination Port  Payload data  Packet trends -> Classification Packet trends  Hex as binary  Origin -> Source |
| December 8th | Andrew  Alex  Joe | MVP presentation |
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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** |
| Code integration | Lots of communication outside meetings | Slower progress |
| Memory leak | Extra time debugging | No memory leak |
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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 presentation went well. We tightened the project integration and fixed several bugs regarding both the model and interface.

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

The next few weeks will see finals and the winter break, so not much work will be done for a while.