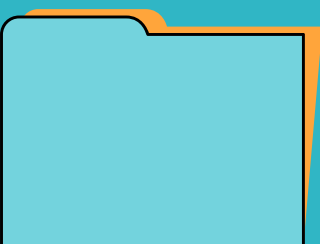


CONCORDIA COLLEGE
MOORHEAD, MN 56562

PSS PROJECT

Personal Screen Share



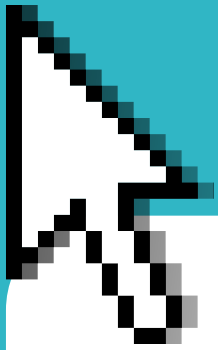
Aaron Noble
CSC 345

What is PSS?

PSS stands for "Personal Screen Share." It is designed to allow users to request sharing their screen to other devices via either Bluetooth or LAN.

The goal for the creation of this software is to utilize the network capabilities of various devices and allow them to connect with each other, even when a LAN connection may not be present or possible.





Why PSS?

Screen sharing has impacted both the academic and professional lifestyle. Many screen sharing applications however require the use of internet, which makes sense for those who want to share their screen with others who may not have the option to be in the same room.

What about situations where a group of people are all trying to observe one small screen, and there is no access to a larger screen? PSS allows you to broadcast your screen to other devices, even without Wi-Fi.





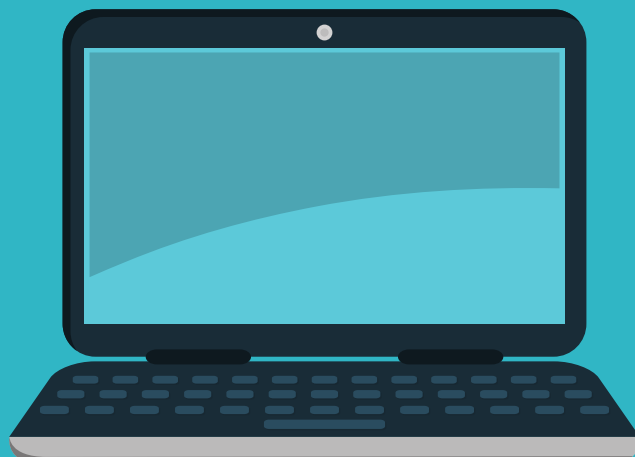
Features

When a user uses the PSS software, they should have the following capabilities:

- Send a request to share their computer screen with another PSS user via a list of devices on the network
- Select the network/sharing mode (Bluetooth or LAN)
- Allow or deny requests from other users
- Run the process in the background so requests can come in at any time while user can continue their work



MAJOR MILESTONES



Milestone 1:

Project Planning

The purpose of Milestone 1 is to lay out the project plan and to create this current document. The following are established:

- Project requirements and milestones
- A project document that summarizes the project and expectations
- Set up a GitHub repository for the project

Due 9/9/2021

Milestone 2:

Project Mockups

The purpose of Milestone 2 is to draw out and model the flow of project. This will be achieved by:

- Creating thumbnails/wireframes
- Creating flowcharts to represent the main project flow
- Begin coding using Python and its networking libraries

Due 9/23/2021

Milestone 3:

Implementation

In Milestone 3, I will begin constructing the project using Python 3.9. The implementation process includes:

- Implementing the expectations and requirements from previous Milestones
- Have a working user interface, even if only a basic prototype

Due 10/21/2021

Milestone 4:

Network Implementation

Milestone 4 is a continuation of Milestone 3, but with the goal of using Python networking modules to implement the networking features of PSS, such as Bluetooth and LAN connections. This will be done by:

- Finding appropriate modules that can be imported and used
- Setting up a virtual machine to test network connections
- Continuing implementation

Due 11/11/2021

Milestone 5:

GUI and Testing

Milestone 5 is when presentation comes into play. The goal is to create a presentable GUI for the software and create unit tests to verify PSS. At the end of the Milestone, I will:

- Update the GUI to make it appear more professional
- Implement final features or additional features if time allows
- Create unit tests to test project

Due 12/2/2021

Milestone 6:

Final Presentation

For the final Milestone, I will create a recording of the final project presentation. The presentation will include all work done over the course. I will be:

- Finalizing the project
- Creating a professional PowerPoint presentation demonstrating my work
- Record the presentation, including a demo of the final application

Due 12/13/2021