# Goal:

Create a software-based psychology experiment solution to capture data and study auditory recognition memory.

# Frameworks:

**jsPysch:** A JavaScript library for running behavioral experiments in a web browser.

# Scope:

Currently, most of the infrastructure to complete this experiment is contained and included in the jsPysch Javascript framework. Things that are not included, and that are required, must be custom designed and built for the project. These things include:

1. Custom jsPysch plugin.
2. Linear SIN wave audio generator w/ expandability for filters and other audio modulation.
3. Interface with data storage for experiment data. (AJAX request to RESTFul API)

# Projected Timeframe:

**Estimated total completion time:** approx. 10 – 15 hours

**Time Breakdown:**

1. Custom jsPysch plugin – approx. 4-6 hours
2. Linear SIN wave audio generator – approx. 4-6 hours
3. Interface with data storage – approx. 2-3 hours

# Potential Issues/Uncertainties:

When completing any software project issues are inevitable. Some issues that I potentially see happening are:

1. Interfacing with a data storage solution may require firewall rules and/or new credentials.
2. Security concerns surrounding transit of experiment data.
3. Browser compatibility issues with JS websites on lab computers

# Questions to be answered:

1. What data store is going to be used to store outputted experiment data?
2. Where is this code going to be running?

There will be more questions while progressing through the development and integration phases.