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## 11/14/2022 Progress Report

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In this progress report, we will answer the following three questions:

- 1. Which tasks have been completed?
- 2. Which tasks are pending?
- 3. Are you facing any challenges?

## Which tasks have been completed?

So far, the team has successfully implemented the following features:

- Set up local deployment infrastructure required to run the solution and load data into server memory as a Pandas dataframe
- Prototyped a simple html user interface page with search controls
- · Connected the user interface to the flask server backend
- Integrated the datasloth package, which leverages NLP capabilities of GPT-3 to query our Pandas dataframes
- Integrated the google and bs4 packages to make HTTP search requests to IMDB and Google and scrape the HTML responses

The datasloth project significantly reduced the amount of code that was needed to integrate with GPT-3, and also prevented us from having to set up a SQLite database.

## Which tasks are still pending?

The following tasks are still pending:

- Refactor the UI to have a single search control
- Combine the search functionality on the backend to compile information across all target search engines and present it in a compelling way to the user
- Measure success against our evaluation queries and tune the GPT-3 integration to produce more compelling/relevant results
- Harden the query experience to work around edge cases

## Are you facing any challenges?

We have not faced any significant challenges in developing this project outside of the normal learning curve of working with new tools and technologies. We are approximately 50% complete, making adequate progress and are expected to finish the whole scope of the project having put in the recommended levels of effort.