**Author:** Morris LaGrand

**Part 1: Web App Architecture**

***Backend and Data:***

The data for this project is small and will be stored as a CSV file in the application container. On the backend, I will leverage Python Flask to create a REST service that will be responsible for interfacing with the frontend and processing requests from end users.

***Frontend:***

The frontend will be developed with Python Streamlit. Streamlit abstracts away the details of frontend development and allows for easy, function-based application creation. The app will be hosted on a Jetstream instance and deployed with docker.

***Frontend Interactivity:***

The interactivity of the frontend will be extremely simple. Users will be presented with an Office quote and will select which character they believe said it. Upon submitting their answer, the model’s answer and the correct answer will be shown.

***Diagram:***

Diagram

Description automatically generated

**Part 2: Web App Layout**

This will be a single page web application. The “Home” page will serve as the starting page and game play page. Users will be presented with a quote from an episode of The Office. They will then need to select which character they believe said the quote. Once their answer is submitted, the model’s selection and correct answer, along with a picture of the character, will be revealed.

Graphical user interface, text, application

Description automatically generated

**Individual and Teamwork Assessment:**

Overall, I’m pleased with the work I’ve accomplished (9/10). The time commitment has been acceptable so far. Now that we’re approaching the implementation phase, I will need to be more proactive about getting the code written and operational. One point of improvement is learning how to develop frontend code. Frontend development is my least favorite part of software development so this simple project will be quite challenging for me.