**CS411**

**Prototype Process & Technology Stack**

Process:

* The initial decision that we took was to use agile process to have greater flexibility in process. The flexibility will allow us to adapt to future unseen requirements. Further, it will also increase team efficiency. As work will be done in phases, giving the team to focus on important aspects of the phase.
* We split the team in two parts back-end and front-end. Both the sub-teams considered various factors while deciding the technology stack such as developer experience with tools and integration with other tools for future development purposes.
* Thus, we narrowed the list to HTML, CSS, and Python for front-end and Flask and Python for back-end.
* HTML, CSS, and Python are used for front-end web application development. The application will use Python to execute HTML form commands. HTML and CSS will be used for website development.
* Flask is used for back-end web application development. Flask is used for API refining and integrating it with the rest of the code.
* After deciding the tools processed our API for YouTube and refined it for integration.
* We used open source for developing our website and API. This was beneficial for the team as it increased the efficiency and provided space to focus on crucial elements.
* We used GitHub to collaborate whole project. This allowed us to track our changes and provided more integration options.

GitHub

(for Integration & Collaboration)