

# Project proposal

**Team member:**

Name: Xingyu Qiu

NetID: xingyuq2

**Captain:**

Xingyu Qiu

**Theme:**

Free topic

**Topic:**

Web application with recommender system

**Description:**

Web applications that shows list of TV shows and movies from Netflix. User can click the item to see the detailed information including video name, description, genres, release year, cast, creators. When user select a item, recommended videos will also show in the page using content based filtering.

**Motivation:**

People always don't know what kind of movies or TV shows they may like to watch due to the large number of choices. I want to build a web application for users to first browse what they like to watch, and then recommend them with similar videos using content based filtering.

**Task:**

Scraper for Netflix to retrieve all the information and store them in csv file. Build web API using flask for GET operations. Build web page using HTML, JavaScript, CSS. Build recommender system based on the content of videos.

**Tools:**

Flask, BeautifulSoup, pandas

**Programming languages:**

Python, HTML, JavaScript, CSS

**Main tasks and estimated time:**

Scraper 4hrs

API 4hrs

Web page structure 4hrs

Content render 4hrs

Recommender system 4hrs