

1. What are the names and NetIDs of all your team members? Who is the captain? The captain will have more administrative duties than team members.
 - a. Justin Michal, jmichal3
2. What is your free topic? Please give a detailed description. What is the task? Why is it important or interesting? What is your planned approach? What tools, systems or datasets are involved? What is the expected outcome? How are you going to evaluate your work?
 - a. My topic is a search engine and recommendation system for movies for users based on different genres. Users will be able to find movie recommendations of a genre based on popularity and ratings by various websites. In addition, you can search the database for movies by name, and relevant information regarding the movie will show up. The goal of this project is to create a website similar to IMDB in order to get a better understanding of how it works.
 - b. My planned approach is to build a website connected to a movie database API that will give me relevant information to display to a user. IMDB, rotten tomatoes, and TVDB are all popular movie database APIs that are free to use. I will have a webpage that has various genres that a user can filter by, as well as a search bar allowing users to find specific movies that they're interested in learning more about. I will evaluate my work based on how effective and useful it is to a given user.
3. Which programming language do you plan to use?
 - a. python
4. Please justify that the workload of your topic is at least $20 \times N$ hours, N being the total number of students in your team. You may list the main tasks to be completed, and the estimated time cost for each task.
 - a. Build front end UI webpage 8hr
 - b. Connect UI to movie database 2hr
 - c. Build search engine for movies and figure out how/what to display to users 10hr
 - d. Filter and display movies based on categories and user input 5hr