SI 206 Final Project Plan

a. What is your group's name?

Shebotchoi

b. Who are the people in the group (first name, last name, umich email)?

Jonah Botkin [jonahbot@umich.edu](mailto:jonahbot@umich.edu)

Irene Choi [ireneyc@umich.edu](mailto:ireneyc@umich.edu)

Anthony Shephard [antshep@umich.edu](mailto:antshep@umich.edu)

c. What APIs/websites will you be gathering data from? The base URLs for the APIs/websites must be different for them to count as different APIs.

[https://www.spotrac.com/nhl/](https://www.spotrac.com/nhl/detroit-red-wings/yearly)

<https://pypi.org/project/nhl-api-py/>

<https://developer.sportradar.com/ice-hockey/reference/ncaamh-overview#api-map>

d. What data will you collect from each API/website and store in a database? Be specific.

NHL Player names, Player points, player penalty minutes, salary, time on ice: grouped by team

NCAA Player names, player points, player penalty minutes, time on ice (from ranked teams)

NCAA/NHL standings

e. What data will you be calculating from the data in the database? Be specific.

Salary/points – how much players are paid for their ‘production’,

points/penalty minute – players production vs. their time in the penalty box,

salary/(point/penalty minutes) – relationship between points/penalty minute and salary

f. What visualization package will you be using (Matplotlib, Plotly, Seaborn, etc)?

Matplotlib/Seaborn

g. What graphs/charts will you be creating?

1. Teams ranked by average player points/salary
   1. points/penalty minutes
2. Players ranked by points/penalty minutes/salary
3. One team with roster ranked by points/salary

h. Who is responsible for what? Please note that all team members should do an equal amount of programming and total work.

Anthony: Web scraper for spotrac.com for contract/salary data

PyPi NHL API wrapper data collection

Irene: Sportradar.com data collection/cleaning

Jonah: Data cleaning/visualizations

A diagram of a team

Description automatically generated