Team C Project Proposal

Title of the website:

EduStat: Data per Major

Tagline: *"Every stat for every major"*

Website Purpose:

This site allows users to see information about popularity and median salary in five years for any bachelor's degree in the United States of their choosing.

Summary of Dataset:

Exact Name of Dataset:

Number, percentage distribution, unemployment rates, and median earnings of 25- to 29-year-old bachelor's degree holders and percentage of degree holders among all 25- to 29-year-olds, by field of study and science, technology, engineering, or mathematics (STEM) status of field: 2010 and 2017

Authorship:

Posted by the National Center for Education Statistics, but the data is provided by the U.S. Department of Commerce, Census Bureau

URL: https://nces.ed.gov/programs/digest/d18/tables/dt18_505.10.asp

Time Period/Geography/Scope:

Compares the aforementioned variables between 2010 and 2017 in the United States for a variety of fields of study.

Local Copy:

Our copy of the dataset was downloaded from the link provided on January 27th, 2020. The local dataset is available locally in two formats: Excel and CSV. Both copies were downloaded during the same session. The dataset is also hosted on GitHub.

Intended Audience and Goals:

The intended audience of our website is any group of people interested in viewing the data of how many students graduated with certain majors, what are the percentages, and what are the median salaries for those majors. This group includes:

Student:

- Students include any of those who are currently in the midst of determining their future career plans, whether they are in college or not. From this site, students might expect to:
    - *Know the popularity of a certain major*, so that they can determine the available market for students of a particular major
    - *Know the salaries of a certain major*, so that they know what the expected salary is for those with a particular major, ahead of pursuing a career.

Parent:

- Parents with various backgrounds may utilize EduStat to gain more knowledge on college-level education in the US. Whether they are parents from a foreign country considering to send their child to attend college in the US, or parents without any prior college education, they will be able to take advantage of EduStat's site features. Such as:
    - *Look at the various majors around the US and their popularity,* to help their child navigate towards certain subjects.
    - *Average salaries for employees that graduated with certain majors,* to assist their child in planning for their long term goals and future aspirations.

Professor:

- Professors are people who teach and advise college students about choosing their majors. From this site, professors might expect to:
    - *Know the median salary of students graduated with a certain major*, so that they can provide the information to their students
    - *Get the percentages of students graduated with different majors*, so that they can give their students a general idea of the major composition

Admission Officer:

- Admission officers are people who select and enroll students to their colleges in the United States by taking the proportions of people majoring in different areas for reference. From this site, admission officers might expect to:
  - *Obtain the data of the percentage of students graduated with a certain major*, so that they can estimate how many students with an interest in that major should be enrolled.
  - *Know the trend of how the percentage changes over time*, so that they can make the estimation more accurate.

Employer:

- Employers include any company, small or large, within any state in the U.S. From this site, employers can expect to:
  - *Know the average salary of majors*, so that they can pay their employees at a similar or better rate for the employees' major, as compared to their competition.

Side Note:

When we are in the process of making the website, we will add more relevant information about each major into the page, depending on the time and workload. The information might include the popularity of each major by states, median salaries by states, major-related companies, etc.

Requirements:

Functional Requirements:

- The site allows the user to conduct a search using multiple criteria.
- The site allows the user to search by majors
- The site allows the user to search by average salary
- The site displays the popularity of a chosen major
- The site provides the median salary of a certain major
- The site stores the relevant information regarding all majors
- The site will have a comparison feature for users to compare the statistics of a major

Non-functional Requirements:

- Data should be clearly presented for users to easily interpret through proper documentation (i.e Labeling, titles)
- Visual data should have a proper color scheme
- Visual data has proper legends
- External sources/data must be obtained from a reliable, trusted, and professional source
- The site allows users to easily navigate between pages using breadcrumbs
- Contents of the website should be organized with proper spacing
- Layout and design (color scheme, text fonts, etc.) should be consistent throughout the website

Collaboration plan:

We want to make this project collaborative so that everyone can experience the different parts of designing a website. Later on, we might have certain people keeping an eye on specific areas in order to make sure everything is good on time. At the current stage, we are all flexible with our roles.

Every meeting we will set a time for the next one. We will communicate through text messages so that we can keep each other updated with the process of individual work. We will also use Google Drive to work on document work collaboratively, and we will take turns to export and commit them to the repository.