**Instructions:**

Evaluate the homework against the outlined criteria in the below rubric, assigning a rating to each criterion. Add points earned across all criteria and convert the total points to a letter grade, assigning a “+” or “-” letter grade designation at your discretion.

| | | | | | |
|---|---|---|---|---|---|
| A (+/-) | 55+ | C (+/-) | 25-39 | F (+/-) | <10 |
| B (+/-) | 40-54 | D (+/-) | 10-24 | | |

**Notes:**

The assignment utilizes **Flask, BeautifulSoup,** and **MongoDB** to complete the challenge. The source code should also be deployed to Github or Gitlab.

**Rubric for Mission To Mars:**

| | **Mastery<br>20 points** | **Approaching Mastery<br>15 points** | **Progressing<br>10 points** | **Emerging<br>5-0 points** | **Incomplete** |
|---|---|---|---|---|---|
| **Web Scraping in Jupyter Notebook** | The Jupyter notebook does all of the following:<br><br>✓ Scrapes the most recent NASA news<br>✓ Scrapes the URL for the featured image<br>✓ Scrapes the latest weather from twitter<br>✓ Scrapes all 4 hemisphere image urls<br>✓ Scrapes the Mars facts HTML table | The Jupyter notebook does 4 of the following:<br><br>✓ Scrapes the most recent NASA news<br>✓ Scrapes the URL for the featured image<br>✓ Scrapes the latest weather from twitter<br>✓ Scrapes all 4 hemisphere image urls<br>✓ Scrapes the Mars facts HTML table | The Jupyter notebook does 2-3 of the following:<br><br>✓ Scrapes the most recent NASA news<br>✓ Scrapes the URL for the featured image<br>✓ Scrapes the latest weather from twitter<br>✓ Scrapes all 4 hemisphere image urls<br>✓ Scrapes the Mars facts HTML table | The Jupyter notebook does 0-1 of the following:<br><br>✓ Scrapes the most recent NASA news<br>✓ Scrapes the URL for the featured image<br>✓ Scrapes the latest weather from twitter<br>✓ Scrapes all 4 hemisphere image urls<br>✓ Scrapes the Mars facts HTML table | No submission was received<br><br>-OR-<br><br>Submission was empty or blank<br><br>-OR-<br><br>Submission contains evidence of academic dishonesty |
| **Flask App** | Flask app does all of the following:<br><br>✓ Has Routes for loading the webpage and scraping the content<br>✓ Connects, fetches, and inserts data to and from a mongoDB without error<br>✓ Correctly returns a rendered template and passes it a variable of the scraped data<br>✓ Calls scrape method from an external python module | Flask app does 3 of the following:<br><br>✓ Has Routes for loading the webpage and scraping the content<br>✓ Connects, fetches, and inserts data to and from a mongoDB without error<br>✓ Correctly returns a rendered template and passes it a variable of the scraped data<br>✓ Calls scrape method from an external python module | Flask app does 2 of the following:<br><br>✓ Has Routes for loading the webpage and scraping the content<br>✓ Connects, fetches, and inserts data to and from a mongoDB without error<br>✓ Correctly returns a rendered template and passes it a variable of the scraped data<br>✓ Calls scrape method from an external python module | Flask app does 0-1 of the following:<br><br>✓ Has Routes for loading the webpage and scraping the content<br>✓ Connects, fetches, and inserts data to and from a mongoDB without error<br>✓ Correctly returns a rendered template and passes it a variable of the scraped data<br>✓ Calls scrape method from an external python module | |
| **Web** | Web page does all of the | Web page does 4 of the following: | Web page does 2-3 of the following: | Web page does 0-1 of the following: | |

| | | | | | |
|---|---|---|---|---|---|
| **Design/Jinja** | following:<br><br>✓ Landing page loads even before scraping<br>✓ `index.html` includes a button to the scrape route<br>✓ Uses jinja to load data from the variable passed by flask<br>✓ Uses bootstrap to style the webpage<br>✓ Facts table renders correctly | ✓ Landing page loads even before scraping<br>✓ `index.html` includes a button to the scrape route<br>✓ Uses jinja to load data from the variable passed by flask<br>✓ Uses bootstrap to style the webpage<br>✓ Facts table renders correctly | ✓ Landing page loads even before scraping<br>✓ `index.html` includes a button to the scrape route<br>✓ Uses jinja to load data from the variable passed by flask<br>✓ Uses bootstrap to style the webpage<br>✓ Facts table renders correctly | ✓ Landing page loads even before scraping<br>✓ `index.html` includes a button to the scrape route<br>✓ Uses jinja to load data from the variable passed by flask<br>✓ Uses bootstrap to style the webpage<br>✓ Facts table renders correctly | |