Requirements

REQ-1.1.1 The NLP model will accept a source of text to be analyzed. Ambiguity: what form may the text take (link, tweet, plaintext, news page, etc)?

REQ-1.1.2 The NLP model will identify colonialist language within a given body of text.

REQ-1.1.3 The NLP model will report the results of its analysis to the user. Ambiguity: How does this report occur? What is displayed?

REQ-1.1.4 (Optional) The NLP model will suggest decolonialized alternatives to colonialist language uses within an analyzed body of text.

REQ-1.2.1 The web scraper will collect the requisite data from a given website.

REQ-1.2.2 Requisite data (as described in REQ-1.2.1) may take the form of a news article, peer-reviewed study, or social media post.

REQ-1.2.3 The web scraper will store the data collected from sources for use in training the NLP model.

REQ-1.2.4 The web scraper will pass the data collected from sources for analysis by the trained NLP model.

REQ-1.2.5 The web scraper will accept a target to be scraped. Ambiguity: how flexible must the scraper be in what it can collect data from?

REQ-1.2.6 The web scraper will parse a web page via traversing the displayed HTML to collect requisite text. Ambiguity: should the scraper traverse the DOM or only parse raw HTML? Ambiguity: what tags are relevant to the scraper's collection process?

REQ-1.2.7 The web scraper will collect data from a given web page upon activation from the user interface by a given user.

REQ-1.2.8 The web scraper will complete its collection of data for a given website within 2s of user initiation.

REQ-1.2.9 The web scraper will provide visible feedback to the user upon completion of its processing.

REQ-1.3.1 The NLP model will accept input of text from the web scraper application.

REQ-1.4.1 The web scraper user interface will have no more than [10] interactable points immediately visible on the landing page.

REQ-1.4.2 The web scraper user interface will maintain continuity between all pages by placing common elements across pages in the same location on each page.

REQ-1.4.3 The web scraper user interface will achieve [insert quantifiable measurement of usability here].

REQ-1.4.4 The web scraper user interface will only have interaction points of a minimum size of [10x10px] to ensure ease of use.

REQ-1.4.5 (Optional) The web scraper user interface will implement accessibility features, including keyboard navigation support, screenreader support, and additional language options (French?).

REQ-1.4.6 The web scraper user interface will maintain a consistent color palette across all pages.

REQ-1.4.7 The web scraper user interface will use consistent terminology to refer to various features across all pages.

REQ-1.4.8 The web scraper user interface will provide immediate feedback on all interactable points (ex. slight changes in appearance of the interactable point, or a loading indicator).

REQ-1.4.9 The web scraper user interface will validate any data input into it prior to passing that input to other services.

REQ-1.4.10 The web scraper user interface will indicate to the user when erroneous inputs have been supplied to the user interface.

REQ-1.5.1 The web scraper will provide meaningful responses in the event of internal errors.

REQ-1.5.2 The web scraper will not expose stack traces or similarly detailed error reports to outside users.

REQ-1.6.1 The web scraper will have the following pages: a landing page, a scraper application page, and a page listing notable outside software tools.

REQ-1.7.1 The scraper application page will have the following interactable surfaces: a textbox for inputting a URL to scrape from, a button to scrape the formatted text from the URL, a button to scrape the raw text from the formatted URL, and a button to scrape highlighted text.

REQ-1.7.2 The scraper application page will have a header indicating the purpose of the page as a web scraper tool.

REQ-1.7.3 Once a URL has been input by the user, that URL will be displayed on the page separately from the textbox used to input the URL.

REQ-1.8.1 All clickable surfaces in the web scraper will change their appearance when hovered over.

REQ-1.8.2 All dropdown menus in the web scraper will indicate their purpose with a downward arrow indicator on the right side of the menu.

REQ-1.9.1 The web scraper application will use the following colors for the primary elements of the user interface in Light mode: #212529, #6c757d, #adb5bd, #f8f9fa, #ffffff

REQ-1.9.2 The web scraper application will use the following colors for the primary elements of the user interface in Dark mode: #121212, #1e1e1e, #2c2c2c, #f8f9fa, #ced4da, #495057, #66b2ff

REQ-1.9.3 The web scraper application will use the following colors for the primary elements of the user interface in Blue mode: #e3f2fd, #bbdefb, #90caf9, #0d47a1, #1976d2, #1565c0, #0d47a1

REQ-1.9.4 The web scraper application will use the following colors for the primary elements of the user interface in Disco mode: #ff00ff, #00ced1, #c8bca7, #4b0082, #8d6e63, #6d4c41, #7fff00, #5d40037

Requirements that will likely need to change to reflect changes in our project: 1.2.2, 1.2.8