**1. Introduction**

**1.1 Purpose**

The purpose of this document is to provide an overview of the project and the planned development specifications, as agreed upon by the client and the development team. This document will outline the tools by which the application will be built, as well as a detailed description of the completed project, to be submitted to the client.

**1.2 Application Summary**

The project is a content aggregator, aimed at presenting articles from predetermined websites provided by the client.

**1.3 Specifications**

The application will present the articles in a format thematic to a classic newspaper, able to be printed out if needed. The user will be able to specify a desired date range, which the application will pull all articles within this range. The application will also provide an “all recent articles” function that will present all articles that have been published since the last time the application had been run.

**2. Design/System Architecture**

**2.1 Frontend**

*How the client will use the application. What platform is required, how the client will run the application.*

**2.2 Backend**

The articles will be pulled from websites using a web scraping script built with Python. The script will use the libraries *requests* and *Beautiful Soup* to scrape the necessary data from the websites.

**2.3 Data Storage**

The project will be developed without a database. Articles will be pulled from the websites directly at the time the application is run. The date the last time the application is run will be saved, used by the “all recent articles” function.

**3. User Design Interface**

**3.1 Presentation**

*What the client will see*

**3.2 Functionality**

*Buttons, Menus, etc.*

**4. Milestones**

**4.1 Scope**

The development of the project will start upon the mutual signing of this document, with a completed form of the application presented to the client by mid/end of April. To the client’s satisfaction after review of the finalized application, the project will be considered complete.

A completed form of the project is one that conforms with what was outlined previously in this document.

**4.2 Development Schedule – Project completion: Mid/End-April**

The web scraping tool and client-side UI will be completed by mid/end of February, and mid/end of March respectively. Combining these two tools in a workable form of the application will be complete by the beginning of April. Testing and bug fixing will take a few weeks, with the project presented to the client for review by mid/end of April.

A close-up of a document

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* Web Scraper Tool Completed: mid/end of February
* Client-Side UI Completed: mid/end of March
* Workable Form of the Application: beginning of April
* Application Tested and Cleared of Bugs: mid/end of April
* Application Presented to Client for Review: mid/end of April