Manual Test Plan

Project Name: sp2020-cs242-assignment2

Version: 2.0

Plan Version: 1.0
Date: 03/01/2020
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Introduction:

Project Overview:

The goal of this project is to produce a program that builds and manages a Digital Library. The first stage of the project consisted of web scraping, processing the scrapped data, and storing the scrapped data in various forms. The program should also have a comprehensive command line interface, interface with an external database, and handle input and output using the JSON format. In addition, the code itself should follow proper style guidelines, specifically pep8 since this project is being done in Python.

Project Plan (so far):

- 1.0: Implement Basic functionality:
  - Web Scraper using Beautiful Soap and requests
  - JSON storage and retrieval of books and authors
  - Interface with external database (used MongoDB); store and retrieve data from the database
  - Fully-featured command-line interface using argparse (not completed yet)

Prerequisites:

- Python 3.7.3
- Packages
  - sys
  - os
  - uuid
  - json
  - copy
  - pprint
  - random
  - bs4 (BeautifulSoup)
  - validators
  - requests
  - pymongo
  - dotenv
- .env file with the corresponding username and password
- VS Code or any other Python editor/IDE

Environment Setup and Configurations:
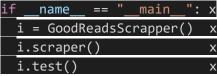
<u>Standard Configuration Setup:</u>

Ensure that Python 3.7+ is installed on your computer. If not, download and install the Python interpreter, preferably using the Anaconda distribution. If a package manager is installed, ensure that the packages listed in the "Prerequisites" section is installed. Ensure that a .env file with your corresponding username and password for the MongoDB database is present within the same directory as the source code.

You can run the code using the second command in the "Useful_Commands.txt" file

Tests/Operations and Results:

<u>Basic Tests:</u>

In order to run the basic tests make sure the your main function consists of the following:

```
if __name__ == "__main__":
    i = GoodReadsScrapper()
    i.scraper()
    i.test()
```

The output should consist of 6 "True"s indicating that basic database and json functionality is working.

<u>Other Tests:</u>