Textbook Finder Application

Functional Requirements: The application must…

* Have an easy-to-follow layout: search mechanism, filters, display area, locator
* Search for books using web resources such as an external API
* Allow user to enter query into a search mechanism
* Allow user to select filters against the query to limit the number of results
* Display a list of results in a scroll-down or scroll-up fashion
* Allow to select a book to see description and retailer link
* Display the location of a retailer nearby (map)

Non-functional Requirements: The application should be…

* Simple to use with few filtering options
* Accessed through a web-browser
* Able to search thru any category, name or ISBN number
* Available 24/7
* Working in cohesion with an external API to render data to user.
* A one- or two-page application, one: to display results, two: to display a bigger view of the selected result with product description, links and map.

Actors: College student, Professor, Staff and Other users (non-students or faculty or Staff)

**User-Stories**

1. As a college student, I want to be able to search for books by Name or ISBN number so that I can get a list of relevant results and links with option to click and visit the publisher’s/retailer’s website.
2. As a professor, I need to be able to enter the name or ISBN number of a textbook into a search mechanism so that I can see a list of books to choose from to aid in future assignments.
3. As an everyday user, I need to be able to search for any kind of book or publication with links to other resources such as ReadMyBook (Richard Lee’s project) for the visually impaired and/or store locator (using google maps).

**Use Case** – Actor: College Student – Search for assigned textbook

* Given I have a textbook to search for and I have the name and/or ISBN number, when I attempt to search for the name or number of the textbook, a list of results should be displayed with descriptive information, external links for purchasing options and a map to locate nearby retailers.

**Use Case** – Actor: College professor – Search for reference material

* As a professor, given I have a list of required textbooks passed down by the department chair, when I attempt to search for reference material through the use category filters, a list of relevant textbooks is displayed with descriptive information based on the category selected. (this should be a list of results of free material to use as reference)

**Use Case** – Actor: Everyday user (staff) – Searching for a book to share

* Given I have a book in mind to search for, and I search for the title by a specific name or ISBN number, I get a list of results that I can scroll through so that I can select a title and share it with social media such as Facebook, Tweeter or Instagram.

**Use Case** – Actor: Everyday user (non-student) – Search for a book to read

* Given I have a book in mind that I want to find for purchase, and I attempt to search for the book by name or ISBN number, a list of relevant results is displayed in which I can make a selection to display the location of a retailer, or use links to other applications to read the book to me for example.

Requirement List

1. Search for textbooks by entering a query
   1. Allow user to enter query into a search mechanism
   2. Allow user to select filters against the query to limit the number of results
   3. Filter by category, subject or Title
2. Display a list of results in a scroll-down or scroll-up fashion
   1. Click on Description and retailer hyperlinks
   2. Description tab opens a separate popup windows with product description
   3. Allow to select a book to see description and retailer link
   4. Click on the link to redirect to retailers’ site
3. Display the location of a retailer nearby (map)
   1. Show a location icon were the address of the retail store is on the map
   2. Click on the map icon to get directions to retailer store