

DATE: March 1st, 2019
TO: Dr. Mary Eberlein
FROM: Team Eagle - Hiep Nguyen, Michael Flanders, Kunpeng Qin, Nabil Khan, Nelson Levy, Wesley Klock
SUBJECT: Team Eagles' BookBrain Phase 1 Report

Github repo link:

<https://github.com/Flandini/461L-Eagles>

Team information:

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Team Canvas: Eagles

Project Name: Book Brain

Project Lead: <https://goo.gl/forms/vCfwe8UcPILkVZdN2>

Website URL: http://35.193.196.53/

Tasks completed:

- Front end:
 - 1 Static homepage with search functionality by title and author of a book
 - 1 Search results page listing the results from the above search in a basic white HTML document. This was not included in the deliverables for Phase 1, but we thought it might make grading/viewing our prototype UI a little easier.
 - Each title on the search results page is a link to an individual book's page
 - 1 Login page
 - 1 Registration page
 - 13 Static web pages for different books

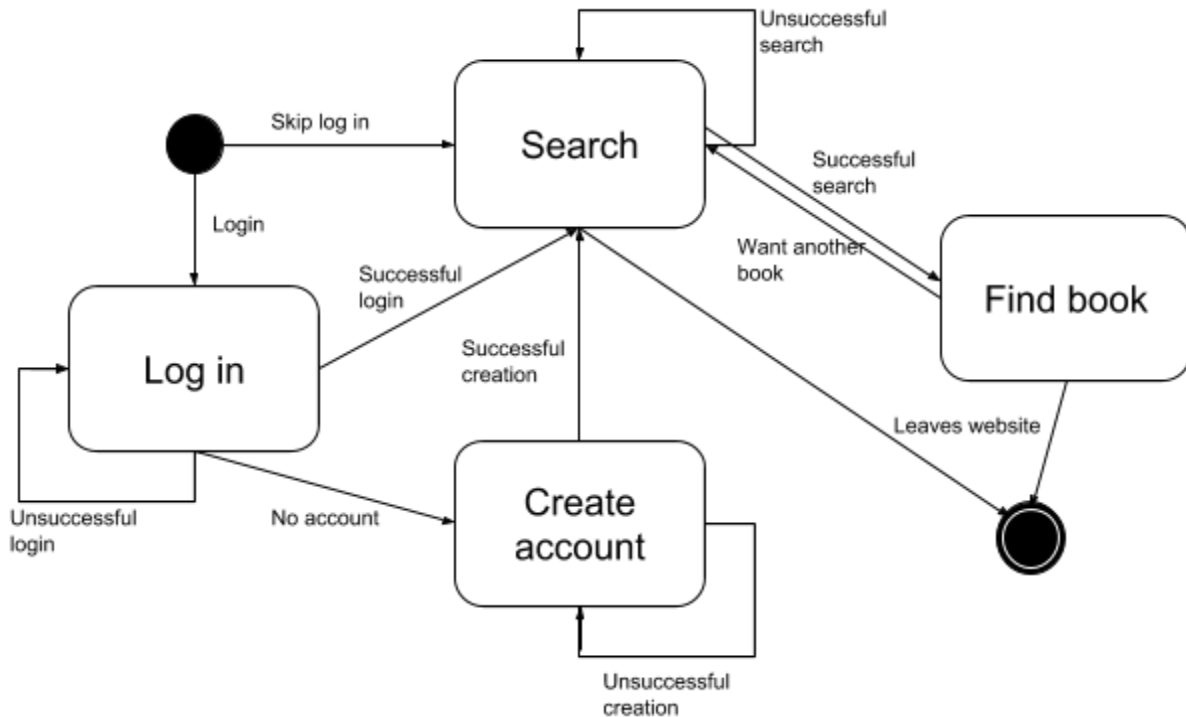
- Each page has:
 - Book cover
 - Author
 - Title
 - A brief description/summary
 - One link to purchase
 - One basic review (not yet based on overall internet sentiment/rating)
- Back end:
 - 1 Flask server integrated with MySQL
- Scraper:
 - One scraper that pulls data only from Goodreads with documentation
 - Documentation is available here:
<https://github.com/Flandini/461L-Eagles/tree/master/scraping>

Features and functionalities produced in this phase:

- Website with about page
- A few static pages with various books with information and reviews about them.

Design: Describe the design of your application. Use UML diagrams.

Actor	Goal
Reader	Search for a book
	Get information about a book
	Get reviews about a book
	Buy a book
-people maintaining website-	Add a book to the list
	Change values related to a book
	Add more sources for reviews

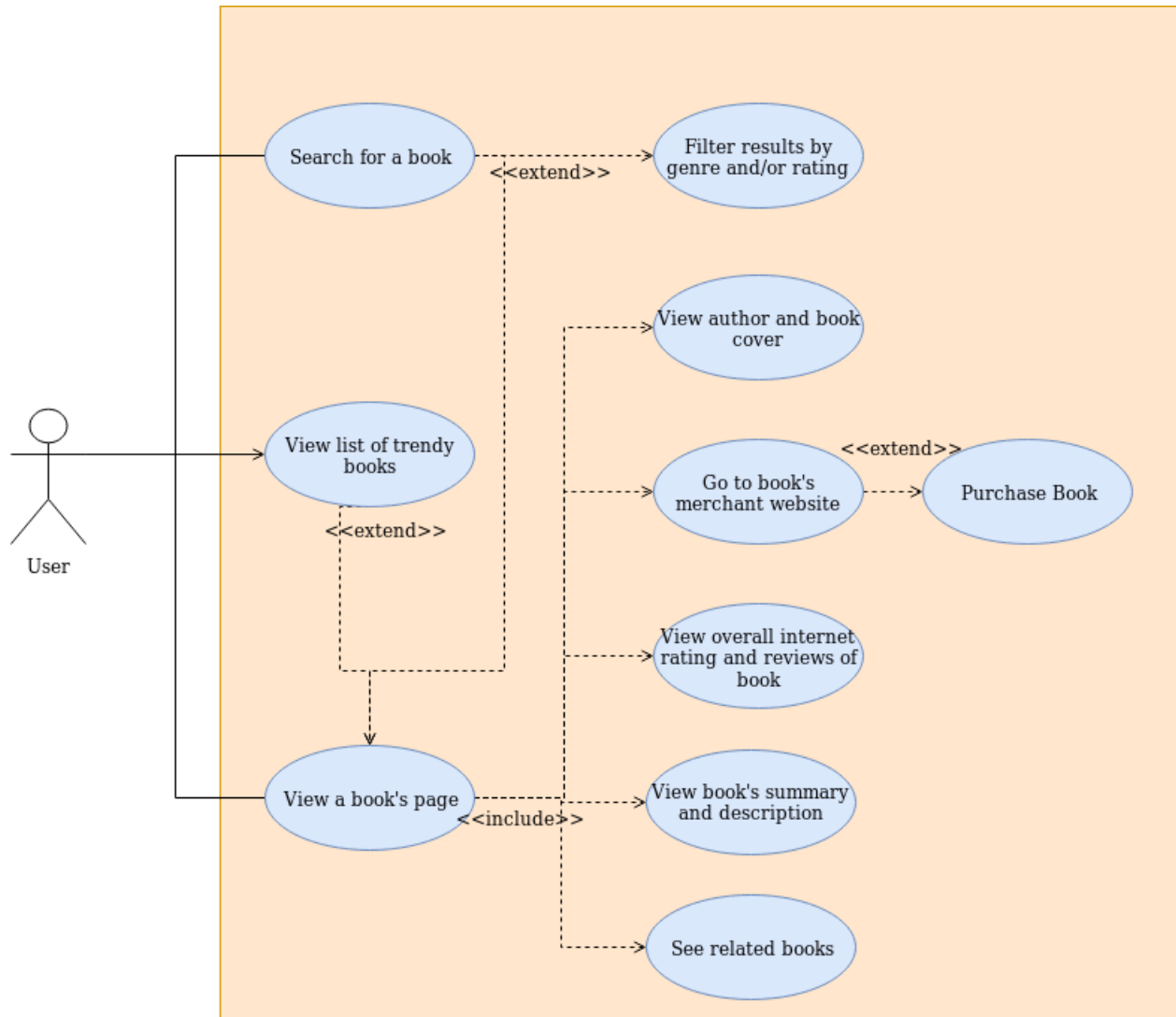


Requirements:

- **User Stories**

- As a person trying to determine whether or not I will like a certain book, I want to be able to search for a book and view a holistic review of the book based on internet ratings and reviews without visiting multiple pages.
- As a person trying to determine whether or not I will like a certain book, I want to be given a short description or summary of the book as a preview.
- As a person trying to find a new book to read, I want to be shown related books based on genre and an overall internet score of the book.
- As a person looking to purchase a book, I want to be provided links to purchase the book.
- As a person looking for book reviews, I want to be able to filter books based on genre and ratings
- As a person looking for book reviews, I want to be able to search for a specific book.

- **Use Case Diagram**



In Phase 1, we have implemented most of these use cases; however, we do not have the use cases of 'View list of trendy books', 'See related books', or 'Filter results by genre and/or rating'. We also do not have a 'overall internet rating' of each book as we need to scale our scraper (which is done in phase 2) to pull reviews from several other sources.

Tools, software, frameworks: what did you use in this phase?

- Frontend
 - HTML/CSS
 - Some React.js
- Backend
 - Python
 - Flask for the webapp

- Pytests
- MySQL for our database
- Google Cloud Platform
 - Firebase for the DB
 - VM's for hosting the actual web application
- Scraper
 - Python
 - Selenium
 - python-pandas
- Team Coordination
 - Communications
 - GroupMe
 - Slack
 - Versioning/Code Repository
 - Github
 - Google Docs

Testing

We have done basic testing of the functionality of what was added, such as making sure data is able to be stored in a database and being able to get information on the books provided.

We have 10 total unit tests that test our login functionality and database operations.

About Page

- Group member: Hiep Nguyen

Bio: My name is Hiep Nguyen, i am currently Junior major in ECE student at University of Texas at Austin.

