Digital Library

Stage 1 (3 developers)

Your task is to develop Digital Library that can store electronic books in EPUB or PDF format.

The system should have following features:

- Adding book to the library and indexing it for future searches
- Searching for books by title, by author, by genre, by citations (i.e., by book's content)
- Rendering books' info: Title, Author, Table of Content and Abstract without downloading it.
- Semantic search (such as 'find books about sea animals' that should include books about whales, seals, etc.)
- Downloading books

You could use collections of free e-books like https://www.freebookcentre.net/ (mainly PDF)

To obtain data for semantic search (hierarchical) classifiers, you could make use of WikiData project

Stage 2 clues

Multirole environment with sophisticated access control. For example, user could have access only to specific set of books.

Online book reader.

Social features such as book rating that could affect ranking of search results.