



Scope of work for the development of a b2b elibrary portal

Context

Indy Technologies wants to develop an online library portal (eBooks portal) with ereader capabilities to provide an easy to use platforms to institutions of higher learning and book publishers to serve their content to users. We have run a succesful pilot with 1800 users off an opensource platform and have thus validated a need for a portal with an ebooks reader functionality to enable more users to access a wide library of relevant titles. Below is a detailed description of the scope of work and functionalities.

Who are the users

The ebooks portal has 3 core users or segments

1. **Publishers:** These are entities that publish books and journal and own rights to the publications. They are interested in distributing their content to as a wide a base as possible. All listed titles will be from accredited publishers.
2. **Business users:** These are institutions or organizations that want to serve different book titles to their users. They want the ability to whitelable the solution and customize according to their brand (including custom domain) and serve content exclusively to their users e.g a college serving its library of titles to registered students.
3. **Consumers users:** These are members of the public that want to access the books at anytime. They may or may not have any affiliation to any business users.

Key features

1. **Multi-device synchronization:** Users will have the ability to synchronize books across devices. Start by reading in our device and continue from where you left in a different device e.g web and mobile
2. **Payment gateways:** Provide ability for users to pay seamlessly with mobile money and cards.
3. **Web interface:** an intuitive web design with a choice of different themes for business users to apply to their customization.
4. **Recommendation feature:** Ability for users, experts to recommend books and titles to individual users or a group of users.
5. **Customization:** Business users need to be able to customize according to their needs.
6. **Multiple file formats:** Ability to support multiple file formats.

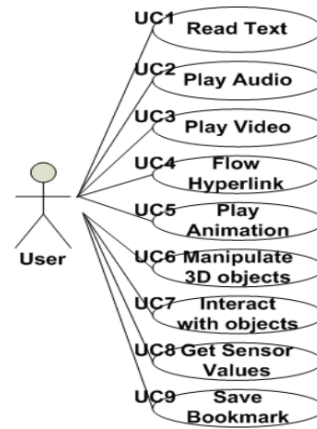


Figure 1.0 Proposed use case and functional requirements

7. **Multiple themes:** Ability for business users to pre-select preferred themes and apply brand to their customization. At least 3 themes to start with.
8. **Screen-time tracker:** Ability to notify users of time spent on screen and make screen time recommendations.
9. **User profile:** Ability to create a profile for individual users and business account / profile for business users.
10. **Access levels:** Provide access level features to different users depending on their user profiles. User levels include admin, internal users, portal users and public users.
11. **Advanced book search:** Ability to apply filters to improve search results. Ajax search capabilities.
12. **Notes, bookmarks and highlighting capabilities:** Ability for users to bookmark text, page or section of text, highlight and write brief notes.
13. **Social media integration:** Especially for consumer users to provide the ability for social logins and also social sharing.
14. **Push notifications:** Notifications to different users when a book is added, comments, notes etc
15. **Gamification:** Ability to setup a bonus or a reward system to encourage users to engage more frequently with content. Provide a points leader-board.
16. **Personalization:** Ability to personalise page / app to fit individual tastes, especially for consumer users.
17. **Design features:** Stunning design features with an exceptional user experience both for web and mobile apps. Below are some proposed design inspiration to pick from:
 - a. <https://www.jstor.org/>

- b. <https://openlibrary.org/>
 - c. https://archive.org/details/additional_collections
 - d. <https://babel.hathitrust.org/cgi/mb>
18. **Analytics:** Ability for business users to produce detailed usage analytics. Specific metrics can be proposed by the consultant.
 19. **Offline features:** Ability for users to consume content while offline
 20. **Security features:** Users will not be able to download the content or screen shot the content to protect publishers' rights. Users can however share book titles and excerpts to non-users who will only be able to access content once they register and pay for any content that is paywalled.
 21. Scorm and LTI features
 22. API ready

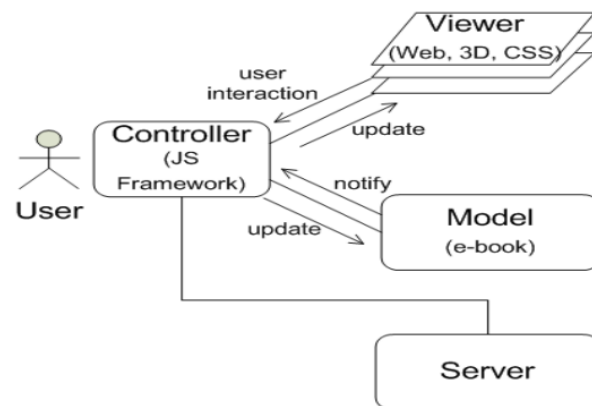


Figure 1.1 Proposed model-view-controller architecture for the ebooks reader

Other requirements

1. Hosting: cloud based hosting, preferably a managed service on AWS, digital ocean or GCP
2. Free support for 3 months after deployment
3. App optimization, faster load time and uptime
4. CDN features
5. Google analytics
- 6.