Open Library

An online platform for your books!

Team Algorithm | 641 Final Presentation

About the application

Online Book Repository

Contains many books that can be searched and stored

Easy and simple UI

Focuses on having a user friendly UI that users can easily understand!

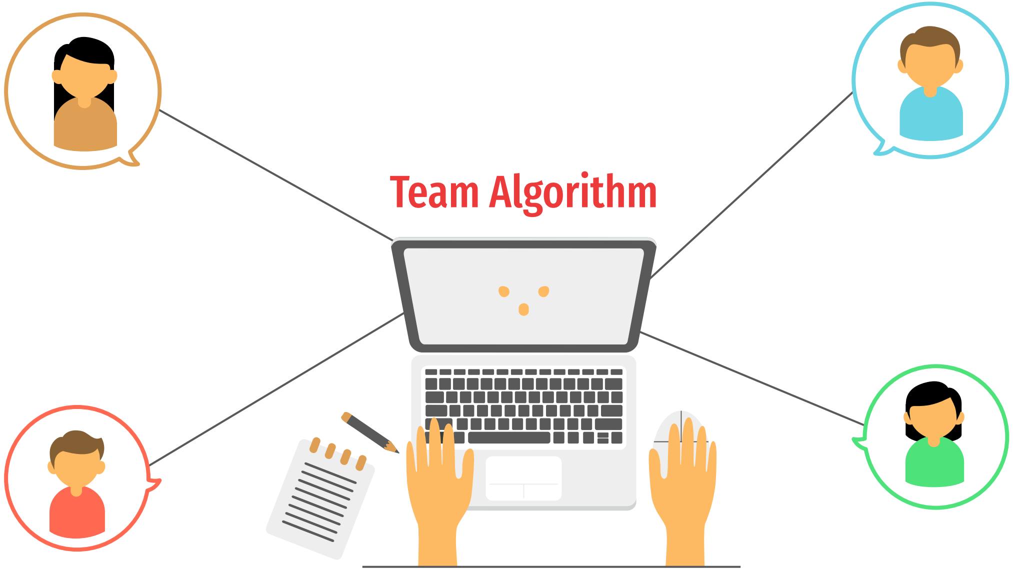
Tools Used

1. Jquery and Bootstrap
2. Groovy and Grails
3. MySql for database

Cost-saving for books!

Cost-saving compared to getting a physical book

About the team



Team Algorithm

Esther Ashade

- Documentation
- Design Diagrams
- Beta Testing

Zhen Lu

- Documenting
- Design Diagrams
- Front-end development and testing

Charles O. Okoruwa

- Documentation
- Design diagram
- Beta testing

Astha Thapa

- Project Planning
- Front-end and backend development and bug fixes
- Database design and implementation

Functional Requirements

Functional Requirements

1. User Account Management
   - User shall create a account
   - User shall retrieve an account
   - The system shall have a sign up page
   - The system shall have a login page
   - User shall be able to click sign up button
2. Search
   - The system shall allow user to search
   - User shall search through search bar
   - the system shall using Open Library API
   - The user shall click search or press enter
   - The search bar shall be in the center of page
3. Search List
   - The user shall get a list of book abstract if results found
   - The system shall render all the book abstract information if applicable
4. Personal List
   - User shall create a personal list
   - User shall give reviews when logged in
   - User shall delete his own review
   - The system shall display others review
   - The review text field shall be visible when user logged in
5. Search Result
   - User shall click to see book details
   - The system shall render book details
   - User shall see the book reviews
   - User shall preview the book

NonFunctional Requirements

NonFunctional Requirements

1. Security
2. Performance
3. Compatibility

4. Usability

- The application should have readable text ranging from 12px font size and above
- The application shall use different button color such as green or blue to indicate different activities
- The application shall provide users with subtle information regarding how to use the application. For example: Usage of placeholder to indicate what to type.
- The application shall not use contrasting color combination to negatively impact visually sensitive audience

5. Reliability

- The application shall provide book results 98% of the time
- The application should provide users with information incase of a failure of action
- The application shall derive it’s data from an authenticated source
- The application shall perform one level of server side validation to prevent failure of actions
- The application should not store incorrect or half correct values while saving data even in cases of external system failure

Software Method and Artifacts used!

Agile

Diagrams

Diagrams

Gantt Chart

Gantt Chart

Trello

Trello

High-level workflow of the application

Workflow Diagram

Retrospective conclusions

What went well ?

1. Quick Identification and fixing of bugs
2. Good research and implementation on UI

What went badly ?

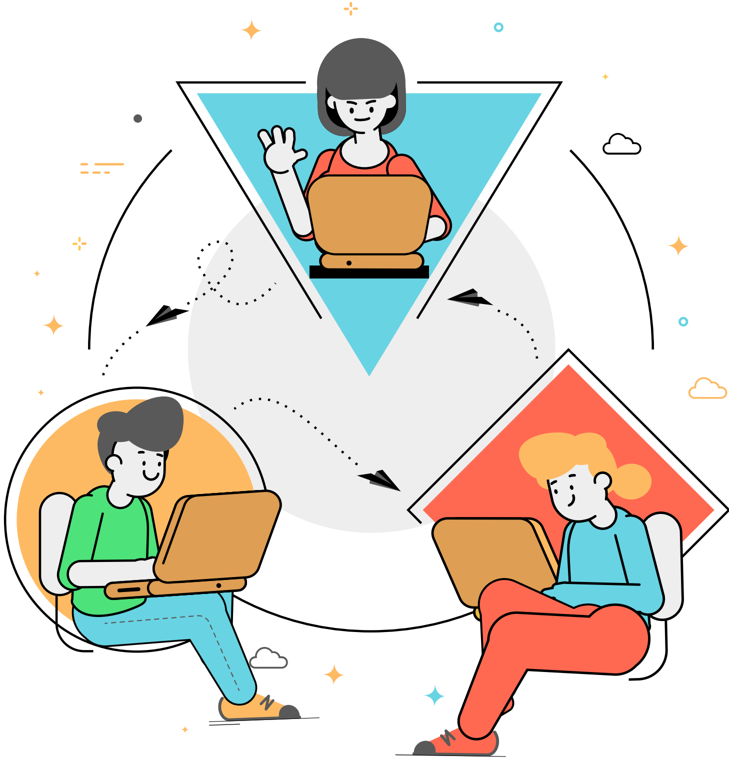
1. Time allocation for learning new technology
2. Timeline set for the application

What could be improved

1. Research on the API
2. A more reactive form of communication

Focus for next period/sprint

1. Expand on the API capabilities
2. Use of more secure database technologies



Demo Time!

1. Requirements to run the application
2. Integrating the database
3. Run the application!

References:

1. API: Open Library - https://openlibrary.org/developers/api
2. Slide template: https://slidesgo.com/
3. Icons: https://icons8.com/
4. UI template: https://themefisher.com/products/classimax
5. GIF: https://tenor.com/view/youtube-superchat-thank-you-gif-26410621

Let us know if you have any questions!