

INFO 6250 Web Development Tools & Methods

Project Report

Bookshelf

Naman Bhargava 1204126

Short summary of the project

- Bookshelf is an online portal for buying and selling of used books
- Owners (registered student) can put his/her book for sell
- The advertisement goes through a screening process to ensure the quality of book(s) before being visible to buyers
- Buyer can browse through "Bookshelf" or can quickly find the required book using the search option
- Using google books api, user can perform certain keyword searches and retrieve book information and viewability

Summary of the Functionality Performed

- Hibernate and Spring MVC Architecture
- Hashing is used to store password of registered users
- Email to user if registered successfully
- Programmatic security has been used
- Filters
- AbstractXlsView and AbstractPdfView
- Pagination
- multipart/form-data to upload images
- Ajax and rest API calls (Google Books api)
- SimpleFormController with validations
- Angular JS
- JQuery for search functionality

Summary of the technologies used

Development tools

- STS
- MySQL database

Techniques used

- Spring MVC
- Hibernate
- Angular JS
- REST API
- JQuery
- AJAX

Brief list and description of the roles, and tasks each role could perform

Customer/Seller

- Register and login to the website
- Receive email upon successful registration
- Post and buy books
- · Generate pdf receipts and list of order books as excel sheets
- search more books through Google books api

Admin

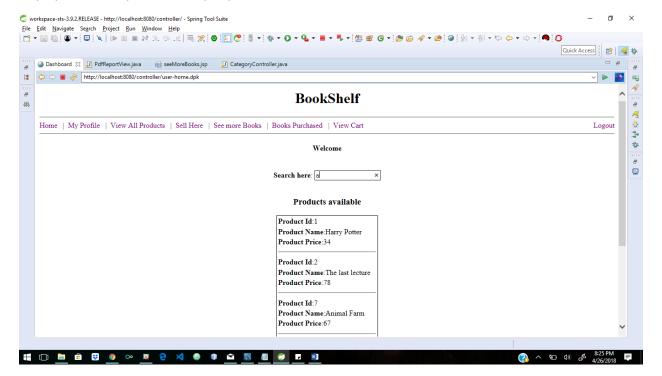
Add new categories of the books.

Quality Assurance

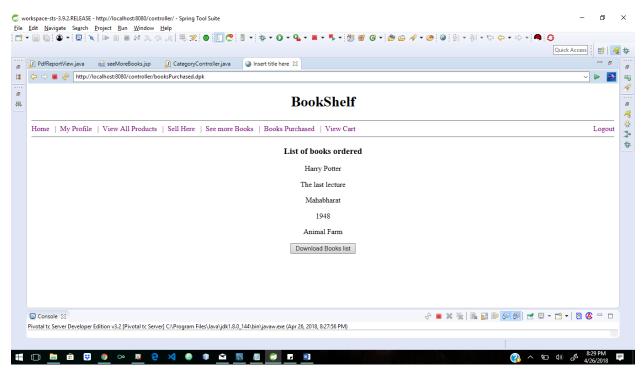
• Approve or reject the request of the seller to add new books to the website

Screenshots of key screens

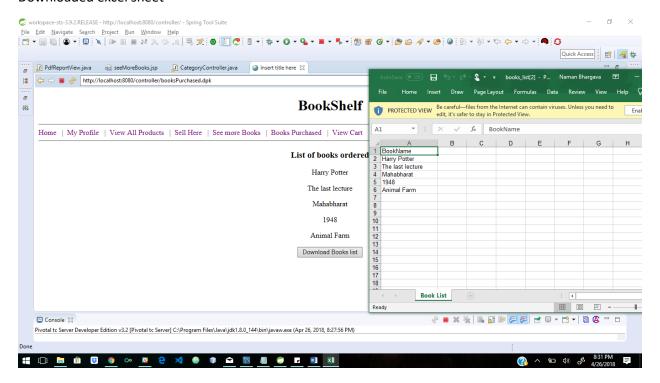
Home Page of the user with ability to search for books available in the database. This uses jquery to display results on press of every key



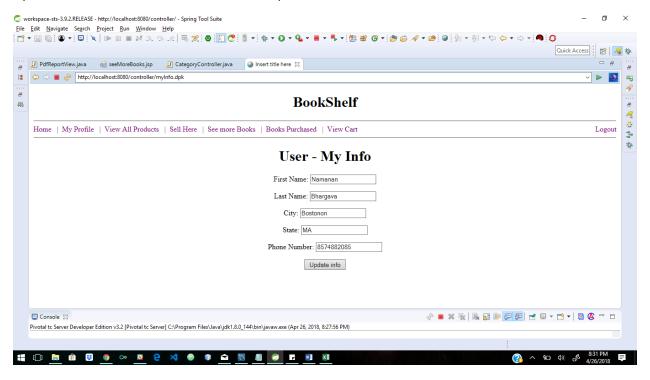
List of books that have been ordered by the user from the website. They can also download the list of books as excel workbook.



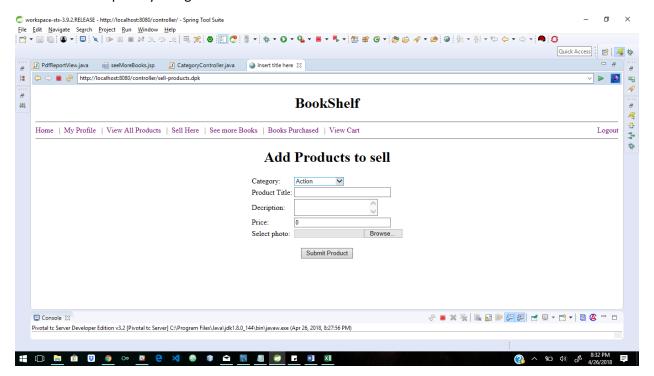
Downloaded excel sheet



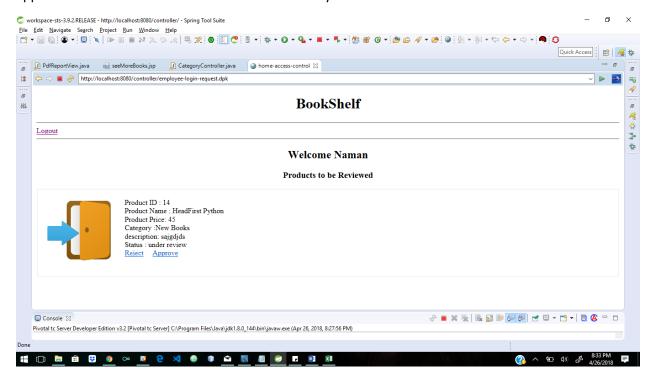
Update user details. This uses filter to add updated values to database.



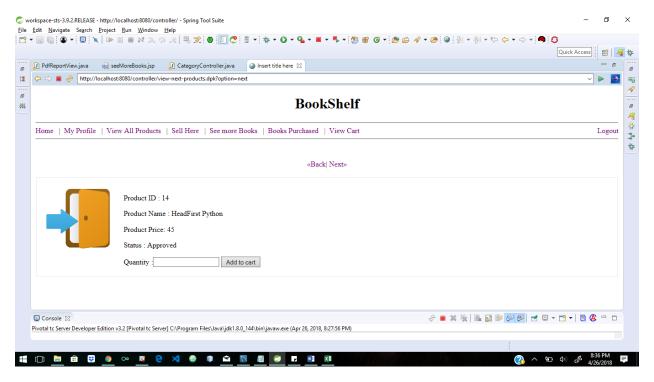
Seller can add a post by filling the below form



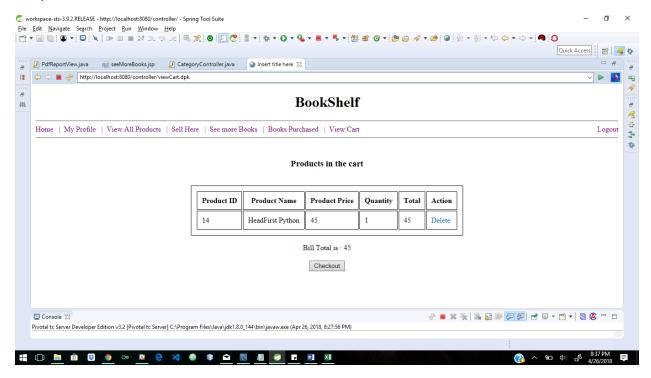
Quality assurance team approves/ rejects the request made by the seller. If the request is approved it appears in the books list available for the user to buy



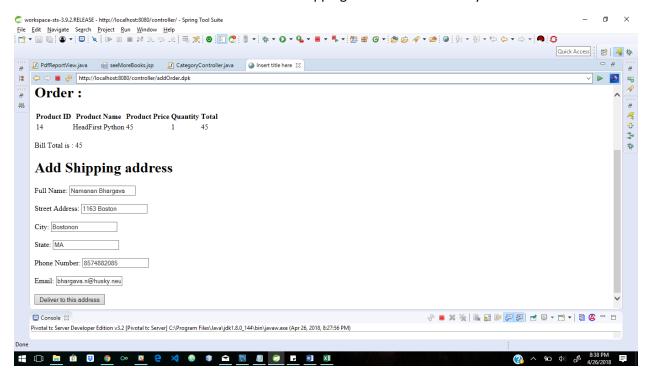
The product approved by Quality assuarance is visible in the list of books available for the user to buy in View All Products tab.



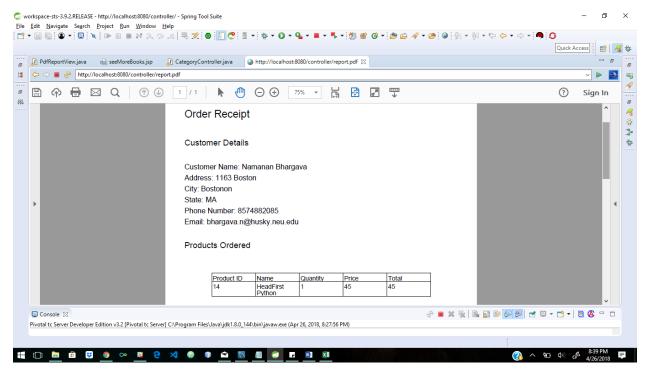
The products added to cart



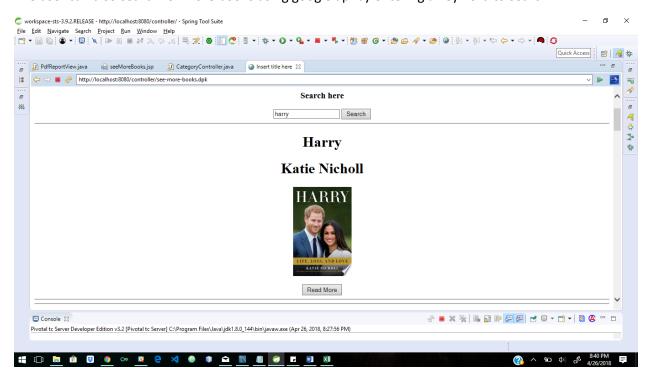
On checkout the user is asked for details about shipping address and summary of the order.



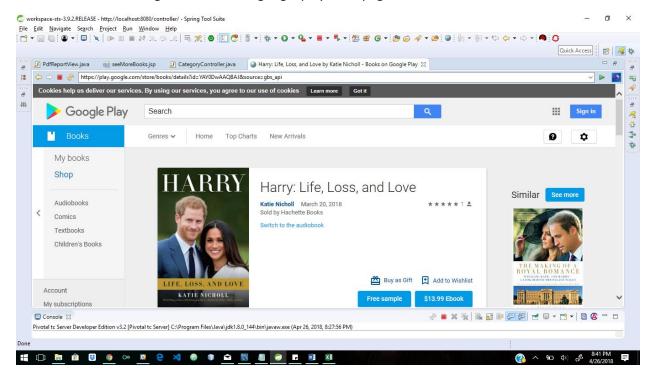
The order is finalized once the user clicks on "Deliver to this address". Here the user has the option to download the receipt in pdf format



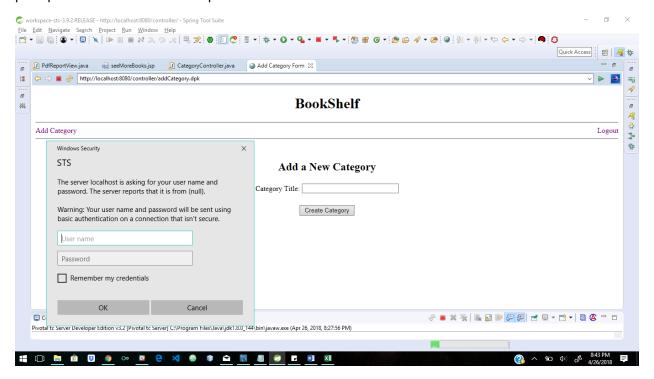
The user can also search for more books using google api by entering a keyword to search



Read More button navigates the user to google play book page.



The programmatic security is added here. So when the admin user clicks on create Category button it is prompted to enter the user and password.



The simple controller validator is used here. Once the category is added is by admin, the same will be visible to seller.

