

## **Product Backlog**

### **KU Varsity Hackers**

The features that we would most want to implement going forward include:

- A login system - A general way to enter the app and more deeply pull users in.
- A profile page - A way to see and take pride in everything that is on your shelf.  
We believe that this would encourage more active usership.
- More robust checkout tracking - Not that we don't trust our users, but we would like for those lending books to be able to let others borrow with the peace of mind that they would be able to track down any users who might happen to lose their books while using the service.
- Dynamic interface for viewing books - Likely implemented through a framework like Vue, we would like the borrowing page to show cards with each book's information instead of just an alert. We also would like to implement a map showing the locations of the books relative to the user.
- More search features - We would like to broaden the user's ability to find books by including search by author, genre, or topic features. This would make shelf more of a discovery service for those that do not already know which exact books they would want to read.
- Book due dates - Implementing a way for lenders to set a date by which they would like the books returned would allow for books, especially those in high demand, to reach more people than if a single person were to hold onto it for an extended period.

- Expanding beyond books - Modern libraries offer many services beyond just loaning books. We believe that shelf could step into something of this role for those communities we'd reach, with possibilities like DVDs and CDs.
- Ratings and feedback - We would love to implement a system to have users rate books and their experiences with certain lenders or borrowers. This would reward proper use of the system and increase the quality of service.
- Discussion forums - One of the things that book-lovers love to do is talk to others about the books they have read. If we can either provide a forum for them to discuss or a channel for them to meet others with the similar passion, then we would love to help.
- Book suggestions - We could leverage machine learning technology to recommend books that are on the shelf in a user's area based on the books that they have either already read or expressed interest in. This can help keep users engaged.

The features that have already been completed include:

- Pleasing and intuitive user interface
- Book posting to database
- Barcode scanning of books
- Search by title or isbn
- Search restriction by distance from user's current location
- Connecting lenders and borrowers by providing contact info