

Project Sprint Planning Notes

Team: Moving Houses

Sprint: 3

Date: 21/09/2021

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Scrum Master: Jared Song

Product Owner: Redowan Mahmud

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1. Goal

This sprint will cover user stories largely related to admin functionality such as changing user types through requests, shutting down accounts and sort registrations. For other users, regular users will have additional filters available in their searches, while business users can control and view their inventory and transactions. All users will be able to leave reviews for sellers and books once they have made a valid transaction.

Another major goal is to refactor our current code so that we have multiple microservices rather than the original monolithic code architecture. Each service will operate on a different port and will be integrated with the Amazon RDS, so they connect to the same database. Each service will also have their own docker files and individual tests which can be added to CircleCI.

2. Duration of the sprint

2 weeks

3. What is the team's vision for this sprint?

Our vision this sprint is to prioritise refactoring our current codebase into a microservice style architecture rather than a monolithic design. Each service will be able to run independently without being dependent on other services. Our database will also be fully integrated with Amazon RDS, with a seeded database so we do not need to keep creating new test users or items during testing cycles.

User stories to be committed to the backlog include stories relating to each current service, such as requests, transactions and browsing. The new stories for admins will cover their functionality in approving requests to change account types, shut down accounts and sort registrations. Additional filtering be used, or new books will also be implemented for users, and business users will be able to

view and update their inventory for stock and check any previous transactions they have made.

4. Estimation in story points

As an admin:

I want to sort all pending registrations from business users so I can view the oldest one first. - 3 points as this story only needs an extra query for sorting.

As a customer:

I want to be able to shut down my account, so that I cannot worry about my data being stolen – 3 points as the relations with transactions and books must also be managed and deleted.

I want to be able to filter my search results so that I can view only new books for sale. - 3 points as it requires an extra query for filtering

I want to be able to filter my search results so that I can view only used books for sale. - 3 points as it requires an extra query for filtering

I want to be able to filter my search, so I can find the items I am interested in more easily. - 3 points as it requires other queries to be joined or combined in cases where multiple filters are used together.

I want to change my account type to a business account, so that I can add my business' name and ABN to my account details. - 3 points for integrating the business model with the user model and its one-to-one relation.

I want to add a review to a user who sold an item to me, so I can rate the seller. - 5 points as it is an entirely new service, repository and controller.

I want to add a review to a book I purchased, so I can share my opinion. - 5 points as it is an entirely new service, repository and controller.

As a business user:

I want to see the current transactions being processed, so I know if there is a large amount of orders going through. - 8 points as the transactions need to be fully integrated with relations to users, books and status.

I want to see the total amount of transactions, so I know if I am selling a large amount of books. - 8 points as the transactions need to be fully integrated with relations to users, books and status.

I want to know how much inventory I have left on an item, so I can decide if I need to print more books. - 5 points

I want to adjust the amount of stock for an item, so that item stock can be increased or decreased. - 2 points

I want to change my account type to a regular user account, so that I can remove my business' details from my account. - 3 points for integrating the business model with the user model and its one-to-one relation.

Architecture and Design:

Refactoring code into smaller microservices – 21 points as we need to ensure that each microservice works independently, can access the same database and be fully operational. Each microservice also needs their own docker files, pom.xml files and classes need to be cleaned up so there is no unused or smelly code.

Fully integrate AWS RDS database to application – 5 points as we do need to change our relational database type, we only need to configure an AWS account and link it to our current default h2 database.