

RMIT SEPT Major Project Report – Folie a Deux

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Vision Statement:

Our vision for this project was to create a fully functional web app, meeting all the desired specifications of our product owner. All of us were inexperienced with React and Springboot, thus we understood from the beginning that we would need to rapidly learn these frameworks and design a product that would meet the requirements. As such the focus was definitely on completing user stories and functionality compared to usability and aesthetics, although we did keep those in mind and apply as much time as possible to optimizing those aspects.

We wanted to ensure users of all classifications (shop owners, publishers, customers and admins) have a full range of functionality which ensures their use of Bookeroo is a positive experience. We wanted to make the act of purchasing and listing books as easy as possible, whilst creating a community within the store through interactions such as reviewing a particular book. An example of our prioritization of ease of use was the decision to use openlibraries API to auto-fill the details of a particular book when a user creates a listing, rather than have to add it in manually.

As such our end product is a functional web-store specializing in the selling of new and used books. Shop owners, publishers and customers are able to post listings of books based of their corresponding ISBN number. The details of a particular book are then accessed through the openlibraries API, and thus can be purchased via PayPal. Furthermore, we utilized various AWS services for deployment including ECS clusters, RDS database and S3 bucket for our front-end.

System Architecture and Design:

Deployment Architecture

Purpose

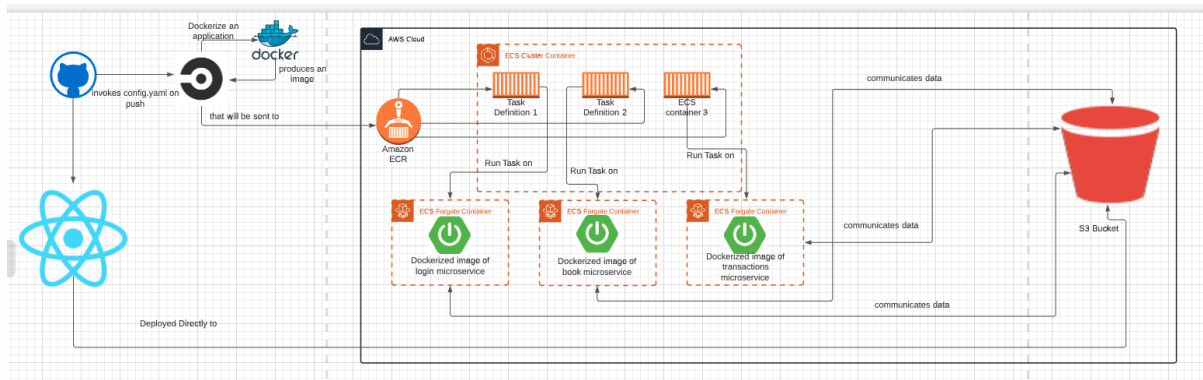
The purpose of this document is to explain in detail the deployment architecture of Bookeroo. The deployment architecture is running on AWS cloud services. We have used Docker for easier deployment solutions of the Springboot API while we opted for a simple service to deploy the React application.

Overview

The application is built using a microservice architecture. There are currently 4 microservice applications that makes up Bookeroo. There are 3 microservices built with Springboot which facilitates data management and communication with the database. These microservices are invoked completely from a UI application built with React which is our 4th microservice. These microservices interact together as a standalone application providing a seamless experience for buying and selling books.

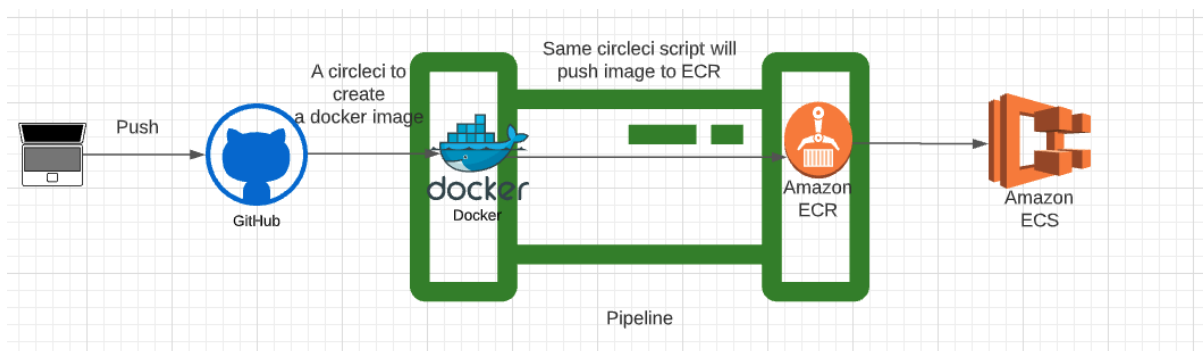
Deployment Architecture

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A high-level overview of the current deployment architecture

Deployment Pipeline



Bookeroo deployment pipeline

Docker

The springboot API runs on java and requires several dependencies to be installed for it to be functioning properly and all the process of setting up a VM can be both time consuming and very tedious process to do. Docker offers a great tool where we can simply create a docker container aka docker image where all the necessary dependencies and libraries are installed and configured to run the java application. Currently we have 3 dockerized applications for each of the springboot microservices. To Dockerize an application, we need to build a docker file to specify what will be dockerized.

```
15 lines (14 sloc) | 363 Bytes
1 #
2 # Build stage
3 #
4 FROM maven:3.8.2-openjdk-16 AS build
5 COPY src /home/app/src
6 COPY pom.xml /home/app
7 RUN mvn -f /home/app/pom.xml clean package
8
9 #
10 # Package stage
11 #
12 FROM openjdk:16-oracle
13 COPY --from=build /home/app/target/booksmicroservices-V1.jar /usr/local/lib/Book-Microservice.jar
14 EXPOSE 2000
15 ENTRYPOINT ["java","-jar","/usr/local/lib/Book-Microservice.jar"]
```

Docker file for application

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CircleCi

The task performed by docker would be repeated every single time a change or update is made to the back-end code which, again, can be time consuming and there is a high change or errors and bugs occurring. To solve this, we have incorporated a CI/CD tool where we have written a config.yaml file that detects pushes to the main branch and every time there is a push to main aka major update, the circleci will run the script which in turn will install all the springboot dependencies, the AWS dependencies, convert the code files into a .jar file which will be dockerized by docker command, and then pushed into ECR on AWS using commands supplied by AWS itself.

```
1 version: 2.1
2
3 # Build
4
5 # Build Docker image and deploy to AWS bookmicroservice
6 build:bookmicroservice
7
8 # Build Docker image and deploy to AWS bookmicroservice
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93 build:bookmicroservice
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95 # Build Docker image and deploy to AWS bookmicroservice
96 build:bookmicroservice
97
98 # Build Docker image and deploy to AWS bookmicroservice
99 build:bookmicroservice
100
```

CircleCi Script

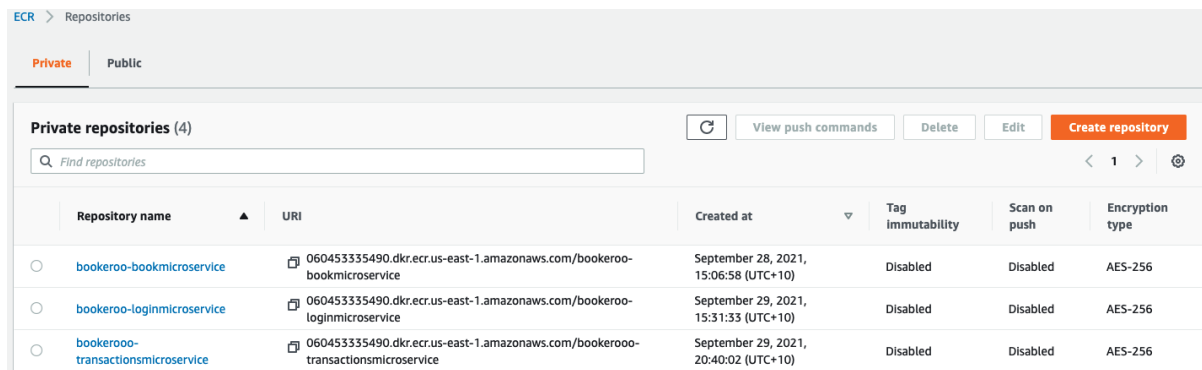
Elastic Container Service

Now that we have our docker image pushed into ECR, now we can actually use the container service on AWS to launch the APIs. We first need to create a cluster. This cluster will host a set of tasks that we can run aka our APIs. So we first proceed to create 3 task definitions, one for each service. These task definitions will have the ECR link for each corresponding docker image, that will sit there. This link will always contain the latest code when there is a new push into the main branch on GitHub. Then we proceed by running a new task. We will choose Fargate because it's light weight and doesn't need many configurations to get it running. We need to repeat this step for each task definitions we have in our cluster. After every push to the main, we need to restart these tasks. Re-running these tasks is equivalent to restarting the springboot application after a major update in the code.

Task	Task definition	Container inst.	Last status	Desired status	Started at	Started by	Group	Launch type	Platform vers...
bookeroo-bookmicroservice-1	bookeroo-bookmicroservice-1	bookeroo-bookmicroservice-1	RUNNING	RUNNING	2021-10-07 18:...	family:bookeroo...	family:bookeroo...	FARGATE	1.4.0
bookeroo-bookmicroservice-2	bookeroo-bookmicroservice-2	bookeroo-bookmicroservice-2	RUNNING	RUNNING	2021-10-07 18:...	family:bookeroo...	family:bookeroo...	FARGATE	1.4.0
bookeroo-bookmicroservice-3	bookeroo-bookmicroservice-3	bookeroo-bookmicroservice-3	RUNNING	RUNNING	2021-10-07 18:...	family:bookeroo...	family:bookeroo...	FARGATE	1.4.0

ECS cluster with 3 tasks running from 3 task definitions

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ECR > Repositories

Private Public

Private repositories (4)

Find repositories

View push commands Delete Edit Create repository

	Repository name ▲	URI	Created at ▼	Tag immutability	Scan on push	Encryption type
<input type="radio"/>	bookeroo-bookmicroservice	060453335490.dkr.ecr.us-east-1.amazonaws.com/bookeroo-bookmicroservice	September 28, 2021, 15:06:58 (UTC+10)	Disabled	Disabled	AES-256
<input type="radio"/>	bookeroo-loginmicroservice	060453335490.dkr.ecr.us-east-1.amazonaws.com/bookeroo-loginmicroservice	September 29, 2021, 15:31:33 (UTC+10)	Disabled	Disabled	AES-256
<input type="radio"/>	bookeroo-transactionsmicroservice	060453335490.dkr.ecr.us-east-1.amazonaws.com/bookeroo-transactionsmicroservice	September 29, 2021, 20:40:02 (UTC+10)	Disabled	Disabled	AES-256

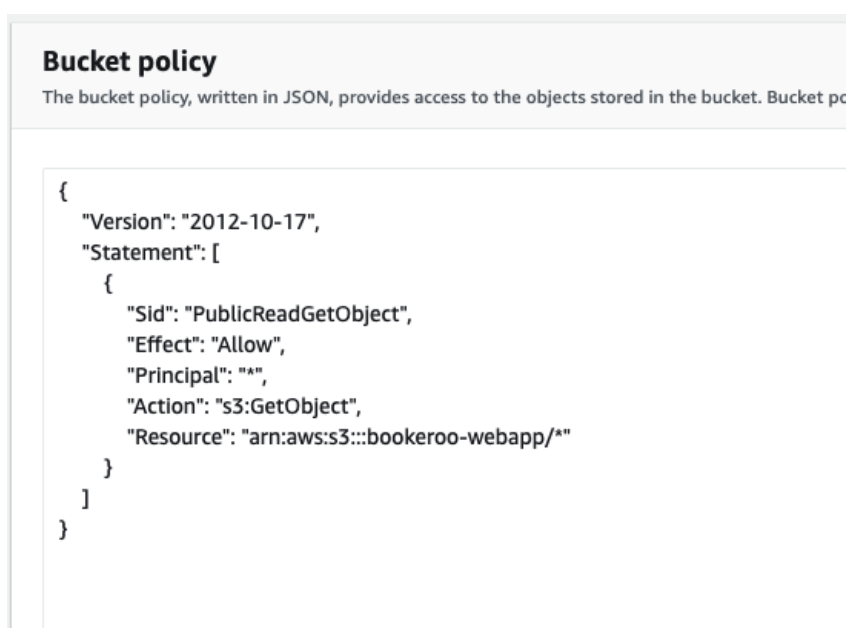
Docker images for 3 microservices on ECR

S3 Bucket

We decided to host the front-end app on S3 bucket due to its simplicity and static webhosting service it provides. We simply need to create a bucket on s3, allow public access, configure the entry point and error point. We then need to set permissions on the s3 bucket to allow accessing the bucket through a DNS made by the bucket. Next step is to include a script in package.json file that will automatically deploy the app after building it.

```
"yarn": "^1.22.11",
},
"scripts": {
  "start": "react-scripts start",
  "build": "react-scripts build",
  "deploy": "aws s3 sync build/ s3://bookeroo-webapp",
  "test": "react-scripts test",
  "eject": "react-scripts eject"
}
```

package.json file with a deploy script.



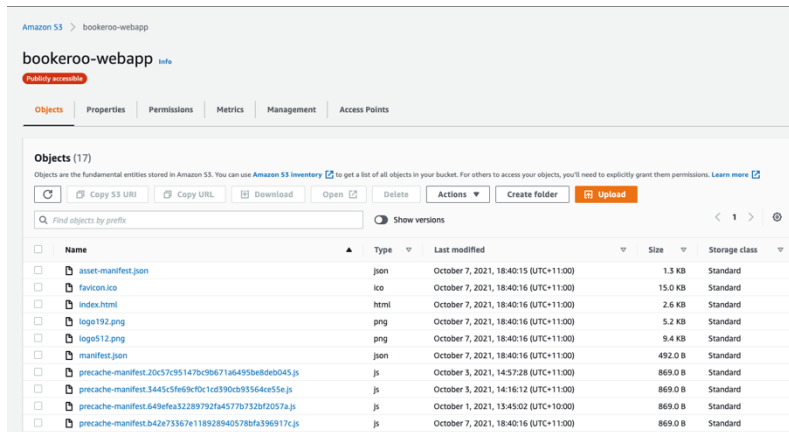
Bucket policy

The bucket policy, written in JSON, provides access to the objects stored in the bucket. Bucket policy

```
{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Sid": "PublicReadGetObject",
      "Effect": "Allow",
      "Principal": "*",
      "Action": "s3:GetObject",
      "Resource": "arn:aws:s3:::bookeroo-webapp/*"
    }
  ]
}
```

Bucket policy in permissions

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S3 bucket containing our front-end application

Refactoring Report:

Introduction

The purpose of this document is to explain and show the re-factoring process of that was incorporated in our development lifecycle. As a team, we always encouraged writing of clean and robust code to increase productivity and quality of our code.

Coding Style

Spring Boot/ API

Springboot Api is a back-end framework that facilitates data communication with the database perform CRUD operations. The framework provides a CRUD repository to help perform actions and manipulate the database. The framework also provides a controller that will invoke these functions. The process for building this API was made in three simple steps to avoid creating spaghetti code and help extend and maintain our in the best possible way. We first created a repository where a class would extend the CRUD repository.

```
// repository that extends crud repository to create service implementation
@Repository
public interface UserRepository extends CrudRepository<User, Long> {

    User findUserByUsername(String username);
    User findUserById(Long id);
    Collection findAllByEnabled(boolean value);
}
```

User repository

This will tell springboot that this class is responsible to having a set of defined attributes from the model to create a table in the database and implement all the required CRUD methods. Now we need to create a service that will define these methods to satisfy business requirements. This is a refactoring style called “separation of concerns” where every class has specifically ONE job to perform. This would allow us to increase coupling and decrease cohesion which would later be very easy and straightforward to maintain or extend.

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```
// service class to implement methods from user repository
@Service
public class UserService {

    // instantiate an object
    @Autowired
    private UserRepository userRepository;

    @Autowired
    private BCryptPasswordEncoder bCryptPasswordEncoder;

    // save user method
    public User saveUser (User newUser){

        User user = null;
        try{
            newUser.setPassword(bCryptPasswordEncoder.encode(newUser.getPassword()));
            newUser.setUsername(newUser.getUsername());
            newUser.setConfirmed("1");
            if (newUser.getConfirmed().equals("false")){
                newUser.setValidated(false);
            }
            user = userRepository.save(newUser);
        } catch (Exception e){
            throw new UsernameAlreadyExistsException(String.format("Username %s already exists", newUser.getUsername()));
        }
        return user;
    }

    // find user by username method
    public User findUserByUsername(String username){
        User user = null;
        try {
            user = userRepository.findUserByUsername(username);
        } catch (Exception e){
            throw new RuntimeException("Can't find user with that username");
        }
        return user;
    }

    // get all users from database
    public Collection<User> findAllUsers(){

```

User service

Our next step is to simply call the methods in the service in the controller. The controller will simply call the required functions to be executed from the REST api functionalities (POST, GET, UPDATE, DELETE). This will also allow developers to not change any code in the controller unless for adding a new route for a new action.

```
// login api
@PostMapping("/login")
public ResponseEntity<Response> authenticateUser(@RequestBody LoginRequest user, BindingResult result){
    ResponseEntity<Response> errorResponse = new ResponseEntity<Response>("Invalid login details", HttpStatus.BAD_REQUEST);
    if (result.hasErrors()) return errorResponse;
    String authenticationException = "Something went wrong";
    try{
        Authentication authentication = authenticationManager.authenticate(
            new UsernamePasswordAuthenticationToken(
                user.getUsername(),
                user.getPassword()
            )
        );
        SecurityContextHolder.getContext().setAuthentication(authentication);
        String jwt = JWTUtils.generateToken(authentication);
        return ResponseEntity.ok(new JWTAuthenticationResponse(jwt, jwt.get()));
    } catch (Exception e){
        authenticationException = String.format("Invalid login details: %s", e);
    }
    return new ResponseEntity<Response>("Invalid login details", HttpStatus.BAD_REQUEST);
}

// get all users from database
@GetMapping("/users")
public ResponseEntity<Collection<User>> getAllUsers(){
    return new ResponseEntity<Collection<User>>(userService.findAllUsers(), HttpStatus.OK);
}

// get a user by username
@GetMapping("/{username}")
public ResponseEntity<User> getUserByUsername(@PathVariable("username") String username){
    return new ResponseEntity<User>(userService.findUserByUsername(username), HttpStatus.OK);
}

// update the user by id
@PostMapping("/update/{id}")
public void updateUser(@PathVariable("id") Long id, @RequestBody User user){
    userService.updateUser(id, user);
}

// delete the user by username
@PostMapping("/{username}/delete")
public void deleteUserByUsername(@PathVariable("username") String username){
    userService.deleteUserByUsername(username);
    return new ResponseEntity<Response>("User deleted", HttpStatus.OK);
}
```

User controller

There is no further refactoring since our functional components are small, adhering to the Single-responsibility principle and the Open-closed principle.

React js/ User interface

React is a great JavaScript framework that allows developers to write UI components to render on a user's screen. The front-end UI allows for invoking of functions into the api. The structure of the front-end is very extensible and complex and you will definitely lose control at some point. To make writing javascript code a pleasure, we need to always make sure that if there is a function or a UI component that is more than 7 lines of code, you should definitely convert that into a component, and declare it in the space where you would need to show.

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```
if (token) {  
  //check type of user logged in to show specific information  
  let accounttype = jwt_decode(token, { body: true })["accountType"];  
  console.log(accounttype);  
  let dropdown;  
  if (accounttype === "admin") {  
    dropdown = <div class="account-dropdown-options">  
      <AdminProfileDropDown />  
    </div>  
  } else {  
    dropdown = <div class="account-dropdown-options">  
      <UserProfileDropDown />  
    </div>  
  }  
}
```

User profile drop down menus

This one example of refactoring where before refactoring, this was a more than 20 lines of code. The code shows a list of drop down items that is different if a user was an admin or a regular user. If one day, this part needs modifications, it will turn into a long function and complexity would go far beyond comprehensibility.

```
55 </div>  
56 //else display sign in or register buttons  
57 } else {  
58   accountUtilities =  
59     <div className="collapse navbar-collapse" id="mobile-nav">  
60       <ul className="navbar-nav ml-auto">  
61         <li className="nav-item">  
62           {/* button component to handle login */}  
63           <SignInButton />  
64         </li>  
65         <li>  
66           {/* button component to handle register */}  
67           <RegisterButton />  
68         </li>  
69       </ul>  
70     </div>  
71   }  
72 //displays search bar and brand  
73 return (  
74   <div>  
75     {/* primary navigation bar */}  
76     <nav className="navbar navbar-expand-sm navbar-dark mb-4">  
77       <div className="container">  
78         {/* brand name to refresh page */}  
79         <Brand />  
80         {/* search feature in nav bar */}  
81         <SearchBar />  
82         <div>  
83           {accountUtilities}  
84         </div>  
85       </nav>  
86       {/* secondary navigation bar */}  
87       <SecondaryNavBar />  
88     </div>  
89   )  
90 )  
91 }  
92 }
```

Landing page components

This is another example of refactoring where when a landing page contains several and many components, we start by moving them into components and then declaring them in the space we would like to see on the page. This allows for creating a clean, maintainable and robust components for re-use.

```
render() {  
  return (  
    <div>  
      {/* using paypal api to process book */}  
      <PayPal priceOfBook={this.state.price}  
        paymentCallBack = {this.processTransaction}/>  
  
      {/* create a purchasing transaction */}  
      <TransactionsBook paymentSuccessful={this.state.paymentSuccessful}  
        bookListingId= {this.props.match.params.id}  
        paymentStatus={this.state.paypalStatus}  
        paymentId={this.state.paymentId}  
      />  
    </div>  
  )  
}
```

Bookero pay

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Another major refactor was our payment system where a user can pay online by PayPal and enter their information to be issued a receipt and a transaction history.

As we can observe, the PayPal payment option is made into a component where it would handle all the actions and data needed to process a PayPal payment. We also build a transactions service where a user can access and view their transactions.

This is how our app is built from the beginning to avoid any formation of code that could not be understood by other developers or avoiding code to span out of control. This way of development encourages best practises and allows for re-use of components when the website is extended.

GitHub Organization:

Our GitHub repository was organized with error minimization in mind. As such for each sprint we would have a primary 'Sprint' branch (e.g. Sprint 1 or Sprint 2). Stemming off these branches were the individual branches of each team member based on a particular feature designated to them at the beginning of the sprint. Thus, during the process of the Sprint team members would work off only their own branches unless collaborating on a particular feature.

When features were completed, it would be first tested by the developer of that feature on their own branch. If they were satisfied with the functionality, they would push their fully updated code to their branch then request to merge with the relevant primary "Sprint" branch, depending on what Sprint that feature was being developed in. Team members would then resolve any conflicts and successfully merge, and that feature would be tested and looked at by either other group members, or as a collective in meetings to ensure suitable functionality. Furthermore, at the end of Sprints all implemented features would again be tested and reviewed again to attempt to discover any unforeseen bugs.

When the Sprint was fully completed, the relevant Sprint branch would be pushed to main which would then hold the most up to date complete code. A new Sprint branch would then be created based off the main branch, ready for the next sprint.

Scrum Process Description:

The scrum master of the group was Mac Arriero, who would lead, organize and facilitate group meetings ensuring the team was collaborating effectively and meetings would flow well. Meetings were a minimum of two times a week, with a shorter one on Tuesday 12pm-1pm followed by a lengthier one on Thursday 5:30pm-8pm typically. However, it was not uncommon for these meetings to be extended due to issues with features, deployment, fixing bugs or helping out peers struggling with their set tasks, particularly the Tuesday meeting. Aside from these two mandatory set meetings, team members were free to organize meetings with other team members if they had questions, needed help or wanted to collaborate/discuss.

As per the assignment milestone requirements at the start of each sprint we conducted Sprint Planning sessions to set clear goals and expectations for each member for the duration of the sprint. We also conducted scrum poker sessions to predict the time required for each user story to be completed in that particular sprint. Similarly, at the end of each sprint we would complete a Sprint Retrospective in which we would reflect upon the recently completed sprint and analyze aspects such as what went well, what could be improved and how could we improve.

Acceptance Testing:

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Any found bugs or issues that did not meet the acceptance criteria was fixed and patched in the final code changes. There may be a few that were not amended due to the time constraints of this sprint and which would have been pushed on the next sprint.

SEPT-1

As a shop owner, I want to log in so that I can create a book listing.	
GWT 1. Given I am a shop owner When I enter my username and password correctly Then it should redirect me to the homepage and log in my account.	
Test Case 1	Browser: Google Chrome Date/Time: 20/10/2021 12:11 pm Tester: Aditya Kerhalkar Result: Account gets logged in and redirected to the homepage (if approved). Bugs Found: None
Test Case 2	Browser: Microsoft Edge Date/Time: 20/10/2021 12:16 pm Tester: Aditya Kerhalkar Result: Account gets logged in and redirected to the homepage (if approved). Bugs Found: None
GWT 2. Given I am a shop owner When I enter my username and password correctly and I am on my profile dashboard Then a button or link should be available for me to create a book listing	
Test Case 1	Browser: Google Chrome Date/Time: 20/10/2021 12:21 pm Tester: Aditya Kerhalkar Result: 'Create Listing' link is available in user dropdown in the top right corner Bugs Found: None
Test Case 2	Browser: Microsoft Edge Date/Time: 20/10/2021 12:22 pm Tester: Aditya Kerhalkar Result: 'Create Listing' link is available in user dropdown in the top right corner Bugs Found: None
GWT 3. Given I am a shop owner who is not logged in When I enter my username and password incorrectly Then an error message should appear informing me that my details are wrong	
Test Case 1	Browser: Google Chrome Date/Time: 20/10/2021 12:24 pm Tester: Aditya Kerhalkar Result: The program prohibits me from logging in, but no message appears Bugs Found: Error message needs to be added
Test Case 2	Browser: Microsoft Edge Date/Time: 20/10/2021 12:27 pm Tester: Aditya Kerhalkar

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	<p>Result: The program prohibits me from logging in, but no message appears</p> <p>Bugs Found: Error message needs to be added</p>
--	---

SEPT-2

As an admin, I want to log in so that I have access to the admin management page.	
GWT 1. Given I am an admin who is not logged in When I enter my username and password correctly Then it should redirect me to a page with links for administrative tasks	
Test Case 1	Browser: Google Chrome Date/Time: 20/10/2021 10:46 am Tester: Aditya Kerhalkar Result: I get redirected to the main book display page with the admin links visible in the corner Bugs Found: None – but this is not the required functionality
Test Case 2	Browser: Microsoft Edge Date/Time: 20/10/2021 10:52 am Tester: Aditya Kerhalkar Result: I get redirected to the main book display page with the admin links visible in the corner Bugs Found: None – but this is not the required functionality
GWT 2. Given I am an admin who is not logged in When I am on the homepage Then it should display books available to purchase, recommended items and login/register options	
Test Case 1	Browser: Google Chrome Date/Time: 20/10/2021 11:00 am Tester: Aditya Kerhalkar Result: The homepage displays available books and 'sign in/sign up' buttons are available in the corner Bugs Found: None
Test Case 2	Browser: Microsoft Edge Date/Time: 20/10/2021 11:02 am Result: The homepage displays available books and 'sign in/sign up' buttons are available in the corner Bugs Found: None
GWT 3. Given I am an admin who is not logged in When I enter my username and password incorrectly Then an error message should appear informing me that my details are wrong.	
Test Case 1	Browser: Google Chrome Date/Time: 20/10/2021 11:10 am Tester: Aditya Kerhalkar Result: The program prohibits me from logging in, but no message appears Bugs Found: Error message needs to be added
Test Case 2	Browser: Microsoft Edge Date/Time: 20/10/2021 11:14 am

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	Tester: Aditya Kerhalkar Result: The program prohibits me from logging in, but no message appears Bugs Found: Error message needs to be added
--	--

SEPT-3

As a customer, I want to log in so that I can buy or share books.	
GWT 1. Given I am a registered user who is not logged in When I enter my details correctly Then I have the option to complete a purchase	
Test Case 1	Browser: Google Chrome Date/Time: 20/10/2021 11:20 am Tester: Aditya Kerhalkar Result: After logging in and clicking on a book I have the option to buy the book Bugs Found: None
Test Case 2	Browser: Microsoft Edge Date/Time: 20/10/2021 11:25 am Tester: Aditya Kerhalkar Result: After logging in and clicking on a book I have the option to buy the book Bugs Found: None
GWT 2. Given I am a registered user who is not logged in When I click the purchase button on a book Then it should redirect me to the login page	
Test Case 1	Browser: Google Chrome Date/Time: 20/10/2021 11:29 am Tester: Aditya Kerhalkar Result: When I click the purchase button on a book it redirects to the login page Bugs Found: None
Test Case 2	Browser: Microsoft Edge Date/Time: 20/10/2021 11:31 am Tester: Aditya Kerhalkar Result: When I click the purchase button on a book it redirects to the login page Bugs Found: None

SEPT-5

As a customer, I want to register an account so that I can purchase books from other registered users or shop owners	
GWT 1. Given I am a customer who does not have an account When I am on the homepage Then there should be a link to enable me to register an account	
Test Case 1	Browser: Google Chrome Date/Time: 20/10/2021 11:36 am Tester: Aditya Kerhalkar

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	Result: 'Sign up' button appears in the corner and redirects to the register page Bugs Found: None
Test Case 2	Browser: Microsoft Edge Date/Time: 20/10/2021 11:37 am Tester: Aditya Kerhalkar Result: 'Sign up' button appears in the corner and redirects to the register page Bugs Found: None
GWT 2. Given I am a customer who does not have an account When I enter my details in the registration fields Then I will be able to register an account	
Test Case 1	Browser: Google Chrome Date/Time: 20/10/2021 11:39 am Tester: Aditya Kerhalkar Result: After entering details I can register an account Bugs Found: None Notes: It doesn't log you in automatically, instead redirecting to login.
Test Case 2	Browser: Microsoft Edge Date/Time: 20/10/2021 11:41 am Tester: Aditya Kerhalkar Result: After entering details I can register an account Bugs Found: None Notes: It doesn't log you in automatically, instead redirecting to login.
GWT 3. Given I am a customer who does not have an account When I enter invalid details in the registration fields Then an error message should appear informing me that my details are invalid	
Test Case 1	Browser: Google Chrome Date/Time: 20/10/2021 11:52 am Tester: Aditya Kerhalkar Result: Entering invalid details stops you from registering. Bugs Found: Not all invalid details are marked with error messages. (For instance, not adding an '@' to the email address is marked, but password length is not).
Test Case 2	Browser: Microsoft Edge Date/Time: 20/10/2021 11:55 am Tester: Aditya Kerhalkar Result: Entering invalid details stops you from registering. Bugs Found: Not all invalid details are marked with error messages. (For instance, not adding an '@' to the email address is marked, but password length is not).

SEPT-6

As a shop owner, I want to register an account so that I can sell my inventory of books to registered users.

GWT 1.

Given I am a shop owner who does not have an account
When I am on the homepage

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Then there should be a link to enable me to register an account	
Test Case 1	Browser: Google Chrome Date/Time: 20/10/2021 1:42 pm Tester: Aditya Kerhalkar Result: 'Sign up' button appears in the corner and redirects to the register page Bugs Found: None
Test Case 2	Browser: Microsoft Edge Date/Time: 20/10/2021 1:43 pm Tester: Aditya Kerhalkar Result: 'Sign up' button appears in the corner and redirects to the register page Bugs Found: None
GWT 2. Given I am a shop owner who does not have an account When I enter my details in the registration fields and select 'shop owner account' Then I will be able to register an account which must be confirmed by an admin	
Test Case 1	Browser: Google Chrome Date/Time: 20/10/2021 1:45 pm Result: After entering details I can register an account Bugs Found: None Notes: It doesn't log you in automatically, instead redirecting to login.
Test Case 2	Browser: Microsoft Edge Date/Time: 20/10/2021 1:49 pm Result: After entering details I can register an account Bugs Found: None Notes: It doesn't log you in automatically, instead redirecting to login.
GWT 3. Given I am a shop owner who does not have an account When I enter invalid details in the registration fields Then an error message should appear informing me that my details are invalid	
Test Case 1	Browser: Google Chrome Date/Time: 20/10/2021 1:51 pm Tester: Aditya Kerhalkar Result: Entering invalid details stops you from registering. Bugs Found: Not all invalid details are marked with error messages. (For instance, not adding an '@' to the email address is marked, but password length is not).
Test Case 2	Browser: Microsoft Edge Date/Time: 20/10/2021 1:52 pm Tester: Aditya Kerhalkar Result: Entering invalid details stops you from registering. Bugs Found: Not all invalid details are marked with error messages. (For instance, not adding an '@' to the email address is marked, but password length is not).

SEPT-7

As a non-registered user, I want to register an account so that I can sell my preowned books to other registered users.
GWT 1.

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<p>Given I am a customer who does not have an account When I am on the homepage Then there should be a link to enable me to register an account</p>	
Test Case 1	<p>Browser: Google Chrome Date/Time: 20/10/2021 2:17 pm Tester: Aditya Kerhalkar Result: 'Sign up' button appears in the corner and redirects to the register page Bugs Found: None</p>
Test Case 2	<p>Browser: Microsoft Edge Date/Time: 20/10/2021 2:18 pm Tester: Aditya Kerhalkar Result: 'Sign up' button appears in the corner and redirects to the register page Bugs Found: None</p>
<p>GWT 2. Given I am a customer who does not have an account When I enter my details in the registration fields Then I will be able to register an account</p>	
Test Case 1	<p>Browser: Google Chrome Date/Time: 20/10/2021 2:19 pm Tester: Aditya Kerhalkar Result: After entering details I can register an account Bugs Found: None Notes: It doesn't log you in automatically, instead redirecting to login.</p>
Test Case 2	<p>Browser: Microsoft Edge Date/Time: 20/10/2021 2:20 pm Tester: Aditya Kerhalkar Result: After entering details I can register an account Bugs Found: None Notes: It doesn't log you in automatically, instead redirecting to login.</p>
<p>GWT 3. Given I am a customer who does not have an account When I enter invalid details in the registration fields Then an error message should appear informing me that my details are invalid</p>	
Test Case 1	<p>Browser: Google Chrome Date/Time: 20/10/2021 2:30 pm Tester: Aditya Kerhalkar Result: Entering invalid details stops you from registering. Bugs Found: Not all invalid details are marked with error messages. (For instance, not adding an '@' to the email address is marked, but password length is not).</p>
Test Case 2	<p>Browser: Microsoft Edge Date/Time: 20/10/2021 2:31 pm Tester: Aditya Kerhalkar Result: Entering invalid details stops you from registering. Bugs Found: Not all invalid details are marked with error messages. (For instance, not adding an '@' to the email address is marked, but password length is not).</p>

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SEPT-8

As a non-registered user, I want to register an account so that I can sell my preowned books to other registered users.	
GWT 1/3. See SEPT-7 above.	
GWT 2. Given I am a customer who does not have an account When I enter my details in the registration fields Then I will be able to register an account and the profile will have a link to 'Sell Books'	
Test Case 1	Browser: Google Chrome Date/Time: 20/10/2021 2:55 pm Tester: Aditya Kerhalkar Result: After entering details I can register an account. The profile button in the corner has a 'Create Listing' link Notes: It doesn't log you in automatically, instead redirecting to login.
Test Case 2	Browser: Microsoft Edge Date/Time: 20/10/2021 2:59 pm Tester: Aditya Kerhalkar Result: After entering details I can register an account. The profile button in the corner has a 'Create Listing' link Notes: It doesn't log you in automatically, instead redirecting to login.

SEPT-9

As a non-registered user, I want to register an account so that I can post reviews on users I have interacted with.
GWT 1/3. See SEPT-7 above.

SEPT-10

As a registered user, I want to change my email so that receipts and notifications will come to my new email.	
GWT 1. Given I am a registered user who is logged in When I select 'change account' in the profile management menu Then there should be a link to enable me to change my email address	
Test Case 1	Browser: Google Chrome Date/Time: 20/10/2021 3:20 pm Tester: Aditya Kerhalkar Result: There is a link in the profile dropdown called 'edit account details'. I can then change my email address and save it.
Test Case 2	Browser: Microsoft Edge Date/Time: 20/10/2021 3:23 pm Tester: Aditya Kerhalkar Result: There is a link in the profile dropdown called 'edit account details'. I can then change my email address and save it.
GWT 2. Given I am a registered user who is logged in When I enter my new email address in the registration field Then I will be able to change my email address and will receive notifications there instead	

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Test Case 1	Browser: Google Chrome Date/Time: 20/10/2021 3:21 pm Tester: Aditya Kerhalkar Result: Entering my new email address in the 'edit account details' page means it can be saved. Bugs Found: It seems to save the address, but doesn't redirect the user so they could be confused as to whether it has worked.
Test Case 2	Browser: Microsoft Edge Date/Time: 20/10/2021 3:24 pm Tester: Aditya Kerhalkar Result: Entering my new email address in the 'edit account details' page means it can be saved. Bugs Found: It seems to save the address, but doesn't redirect the user so they could be confused as to whether it has worked.
GWT 3. Given I am a registered user who is logged in When I enter an invalid email in the registration field Then an error message should appear informing me that this address is invalid	
Test Case 1	Browser: Google Chrome Date/Time: 20/10/2021 3:30 pm Tester: Aditya Kerhalkar Result: Entering invalid email details gives a specific error. Bugs Found: None
Test Case 2	Browser: Microsoft Edge Date/Time: 20/10/2021 3:32 pm Tester: Aditya Kerhalkar Result: Entering invalid email details gives a specific error. Bugs Found: None

SEPT-11

As a registered user, I want to change my password so that it is different from my old password.	
GWT 1. Given I am a registered user who is logged in When I select 'change account' in the profile management menu Then there should be a link to enable me to change password	
Test Case 1	Browser: Google Chrome Date/Time: 20/10/2021 8:39 pm Tester: Aditya Kerhalkar Result: The 'edit account details page' does not include the option to change password.
Test Case 2	Browser: Microsoft Edge Date/Time: 20/10/2021 8:40 pm Tester: Aditya Kerhalkar Result: The 'edit account details page' does not include the option to change password.
GWT 2. Given I am a registered user who is logged in When I enter my new password in the registration field Then I will be able to change my password	
Test Case 1	Browser: Google Chrome

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	Date/Time: 20/10/2021 8:39 pm Tester: Aditya Kerhalkar Result: The 'edit account details page' does not include the option to change password, so this is not a possibility.
Test Case 2	Browser: Microsoft Edge Date/Time: 20/10/2021 8:40 pm Tester: Aditya Kerhalkar Result: The 'edit account details page' does not include the option to change password, so this is not a possibility.
GWT 3. Given I am a registered user who is logged in When I enter an invalid password in the registration field Then an error message should appear informing me that this password is invalid	
Test Case 1	Browser: Google Chrome Date/Time: 20/10/2021 8:39 pm Tester: Aditya Kerhalkar Result: The 'edit account details page' does not include the option to change password, so this is not a possibility.
Test Case 2	Browser: Microsoft Edge Date/Time: 20/10/2021 8:40 pm Tester: Aditya Kerhalkar Result: The 'edit account details page' does not include the option to change password, so this is not a possibility.

SEPT-12

As a customer, I want to view my order history so I can see what I've ordered in the past.	
GWT 1. Given I am a registered user who is logged in When I select 'order history' in the profile management menu Then there should be a list of my previously purchased books on screen in a chronological order.	
Test Case 1	Browser: Google Chrome Date/Time: 21/10/2021 10:54 am Tester: Aditya Kerhalkar Result: Transaction history doesn't seem to appear
Test Case 2	Browser: Microsoft Edge Date/Time: 21/10/2021 10:58 am Tester: Aditya Kerhalkar Result: Transaction history doesn't seem to appear
GWT 2. Given I am a registered user who is logged in When I select a book in the order history tab Then relevant order details such as price and address should be displayed.	
Test Case 1	Browser: Google Chrome Date/Time: 21/10/2021 10:54 am Tester: Aditya Kerhalkar Result: Transaction history doesn't seem to appear
Test Case 2	Browser: Microsoft Edge Date/Time: 21/10/2021 10:58 am Tester: Aditya Kerhalkar Result: Transaction history doesn't seem to appear

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SEPT-13

As a shop owner, I want to change my phone number, address, or ABN if they are changed so that my details remain correct.	
GWT 1. Given I am logged in as a shop owner When I select 'change account' in the profile management menu Then there should be a link to enable me to change my details	
Test Case 1	Browser: Google Chrome Date/Time: 21/10/2021 8:33 am Tester: Aditya Kerhalkar Result: There is a link in the profile dropdown called 'edit account details'. I can then change my details and save them.
Test Case 2	Browser: Microsoft Edge Date/Time: 21/10/2021 8:34 am Tester: Aditya Kerhalkar Result: There is a link in the profile dropdown called 'edit account details'. I can then change my details and save them.
GWT 2. Given I am logged in as a shop owner When I enter my new details in the registration fields Then I will be able to change my details	
Test Case 1	Browser: Google Chrome Date/Time: 21/10/2021 8:33 am Tester: Aditya Kerhalkar Result: Entering my new email address in the 'edit account details' page means it can be saved. Bugs Found: It seems to save the address, but doesn't redirect the user so they could be confused as to whether it has worked.
Test Case 2	Browser: Microsoft Edge Date/Time: 21/10/2021 8:34 am Tester: Aditya Kerhalkar Result: Entering my new email address in the 'edit account details' page means it can be saved. Bugs Found: It seems to save the address, but doesn't redirect the user so they could be confused as to whether it has worked.
GWT 3. Given I am logged in as a shop owner When I enter invalid details in the registration field Then an error message should appear informing me that the details are invalid	
Test Case 1	Browser: Google Chrome Date/Time: 21/10/2021 8:36 am Tester: Aditya Kerhalkar Result: Entering invalid email details gives a specific error. Bugs Found: None
Test Case 2	Browser: Microsoft Edge Date/Time: 21/10/2021 8:36 am Tester: Aditya Kerhalkar Result: Entering invalid email details gives a specific error. Bugs Found: None

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SEPT-15

As an admin, I want to view a full list of users' information on the website, so that I can get information about subscribers and their demographics.	
GWT 1. Given I am on a page which lists user information When I select 'show all' Then the app should list all users.	
Test Case 1	Browser: Google Chrome Date/Time: 21/10/2021 8:47 am Tester: Aditya Kerhalkar Result: There is no specific 'list all users' page. There is the 'user approval' page which can list users that need to be approved by an admin, but not one where all users can be seen.
Test Case 2	Browser: Microsoft Edge Date/Time: 21/10/2021 8:48 am Tester: Aditya Kerhalkar Result: There is no specific 'list all users' page. There is the 'user approval' page which can list users that need to be approved by an admin, but not one where all users can be seen.

SEPT-19

As a shop owner, I want to search up a book I want to sell so I can compare the going rate for that book.	
GWT 1. Given I am on the search bar When I type in the name of the book I want to sell and hit enter Then I am redirected to a page listing all the books with that name	
Test Case 1	Browser: Google Chrome Date/Time: 21/10/2021 9:16 am Tester: Aditya Kerhalkar Result: Typing the book name in the top search bar shows all listings which have the same name. Bugs Found: None
Test Case 2	Browser: Microsoft Edge Date/Time: 21/10/2021 9:17 am Tester: Aditya Kerhalkar Result: Typing the book name in the top search bar shows all listings which have the same name. Bugs Found: None
GWT 2. Given I have typed in the name of the book in search When nobody else is selling the book on the site Then no book will display on the results page	
Test Case 1	Browser: Google Chrome Date/Time: 21/10/2021 9:18 am Tester: Aditya Kerhalkar Result: Typing a book name with no attached listings gives the message 'no results were found'. Bugs Found: None

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Test Case 2	Browser: Microsoft Edge Date/Time: 21/10/2021 9:18 am Tester: Aditya Kerhalkar Result: Typing a book name with no attached listings gives the message 'no results were found'. Bugs Found: None
GWT 3. Given I have typed in the name of the book in search When I am on the results page Then each result should display the title, picture, price and seller ID of the book	
Test Case 1	Browser: Google Chrome Date/Time: 21/10/2021 9:19 am Tester: Aditya Kerhalkar Result: The result for each listing gives the title, picture, ISBN and author, but not the seller ID or price. For this you need to click on the book listing itself.
Test Case 2	Browser: Microsoft Edge Date/Time: 21/10/2021 9:19 am Tester: Aditya Kerhalkar Result: The result for each listing gives the title, picture, ISBN and author, but not the seller ID or price. For this you need to click on the book listing itself.

SEPT-20

As a shop owner, I want to search up a book I have listed so that I can see if my listing is visible to those looking up that book.	
GWT 1. Given I am on the search bar When I type in the name of the book I want to sell and hit enter Then I should see the book that I am selling in results	
Test Case 1	Browser: Google Chrome Date/Time: 21/10/2021 9:41 am Tester: Aditya Kerhalkar Result: Book can be seen in search.
Test Case 2	Browser: Microsoft Edge Date/Time: 21/10/2021 9:44 am Tester: Aditya Kerhalkar Result: Book can be seen in search.
GWT 2. Given I have typed the name of the book in search When I hover over my listing Then it should not allow me to buy my own book	
Test Case 1	Browser: Google Chrome Date/Time: 21/10/2021 9:41 am Tester: Aditya Kerhalkar Result: Book can still be bought.
Test Case 2	Browser: Microsoft Edge Date/Time: 21/10/2021 9:44 am Tester: Aditya Kerhalkar Result: Book can still be bought.

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SEPT-21

As a customer, I want to search for a book that has a particular word in the title, so that I can see a list of books containing that word in the title.	
GWT 1. Given I am on the search bar When I enter a word from the book title Then I am redirected to a page listing books with that word in the title.	
Test Case 1	Browser: Google Chrome Date/Time: 21/10/2021 11:12 am Tester: Aditya Kerhalkar Result: Books with that word in the title can be seen in search.
Test Case 2	Browser: Microsoft Edge Date/Time: 21/10/2021 11:13 am Tester: Aditya Kerhalkar Result: Books with that word in the title can be seen in search.
GWT 2. Given I have typed the name of the book in search and I am not logged in When I am on the results page Then I shouldn't be able to make a purchase without logging in	
Test Case 1	Browser: Google Chrome Date/Time: 21/10/2021 11:13 am Tester: Aditya Kerhalkar Result: Clicking the shopping cart button (to buy the book) redirects to the login page.
Test Case 2	Browser: Microsoft Edge Date/Time: 21/10/2021 11:13 am Tester: Aditya Kerhalkar Result: Clicking the shopping cart button (to buy the book) redirects to the login page.

SEPT-22

As a customer, I want to search the name of an author, so that I can see all the books they have written.	
GWT 1. Given I am on the search bar When I enter an author's name Then I am redirected to a page listing book written by this author or with their name in it	
Test Case 1	Browser: Google Chrome Date/Time: 21/10/2021 11:24 am Tester: Aditya Kerhalkar Result: Books with that word in the title can be seen in search.
Test Case 2	Browser: Microsoft Edge Date/Time: 21/10/2021 11:24 am Tester: Aditya Kerhalkar Result: Books with that word in the title can be seen in search.
GWT 2. Given I have typed in the name of the author in search and I am not logged in When I am on the results page Then I shouldn't be able to make a purchase without logging in	
Test Case 1	Browser: Google Chrome

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	Date/Time: 21/10/2021 11:24 am Tester: Aditya Kerhalkar Result: Clicking the shopping cart button (to buy the book) redirects to the login page.
Test Case 2	Browser: Microsoft Edge Date/Time: 21/10/2021 11:24 am Tester: Aditya Kerhalkar Result: Clicking the shopping cart button (to buy the book) redirects to the login page.
GWT 3. Given I am on the search bar When I click enter without entering anything Then nothing should happen	
Test Case 1	Browser: Google Chrome Date/Time: 21/10/2021 11:29 am Tester: Aditya Kerhalkar Result: Clicking the search button displays a 404 error
Test Case 2	Browser: Microsoft Edge Date/Time: 21/10/2021 11:29 am Tester: Aditya Kerhalkar Result: Clicking the search button displays a 404 error

SEPT-23

As an admin, I want to type up the ISBN of a book so that I can see if the result matches the corresponding book.	
GWT 1. Given I know the ISBN of the book I'm searching for When I search for the ISBN Then I am redirected to a page that displays the book with that ISBN	
Test Case 1	Browser: Google Chrome Date/Time: 21/10/2021 11:34 am Tester: Aditya Kerhalkar Result: Books with that ISBN can be seen in search.
Test Case 2	Browser: Microsoft Edge Date/Time: 21/10/2021 11:34 am Tester: Aditya Kerhalkar Result: Books with that ISBN can be seen in search.
GWT 2. Given I am on the search bar When I enter random numbers that do not match the ISBN format Then an error message should display indicating the correct ISBN format	
Test Case 1	Browser: Google Chrome Date/Time: 21/10/2021 11:34 am Tester: Aditya Kerhalkar Result: Simply a 'no results found' error. Note: Not sure if further specific error output on ISBN format is required.
Test Case 2	Browser: Microsoft Edge Date/Time: 21/10/2021 11:34 am Tester: Aditya Kerhalkar

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	Result: Simply a 'no results found' error. Note: Not sure if further specific error output on ISBN format is required.
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SEPT-24

As a public user, I want to search up the title of a book I want to buy so I can find the cheapest price.	
GWT 1. Given I am on the results page and looking for the cheapest price When I scroll down the results page Then I should be able to sort the list in order of price	
Test Case 1	Browser: Google Chrome Date/Time: 21/10/2021 11:43 am Tester: Aditya Kerhalkar Result: No indication of price on the results page. Need to click on the listing and then find the price.
Test Case 2	Browser: Microsoft Edge Date/Time: 21/10/2021 11:43 am Tester: Aditya Kerhalkar Result: No indication of price on the results page. Need to click on the listing and then find the price.
GWT 2. Given I am on the results page and have clicked the 'sort by price' feature When I scroll down the results page Then the books should be sorted in ascending order of price	
Test Case 1	Browser: Google Chrome Date/Time: 21/10/2021 11:46 am Tester: Aditya Kerhalkar Result: There is no 'sort by price' feature.
Test Case 2	Browser: Microsoft Edge Date/Time: 21/10/2021 11:46 am Tester: Aditya Kerhalkar Result: There is no 'sort by price' feature.

SEPT-25

As a registered public user, I want to set up a main payment method so that I do not have to enter payment details every time.	
GWT 1. Given I have books in my cart When I go to check out Then I want my payment details set so I do not have to insert them every time.	
Test Case 1	Browser: Google Chrome Date/Time: 21/10/2021 11:59 am Tester: Aditya Kerhalkar Result: Storing payment details is the responsibility of PayPal. If you have an account you can easily log in, or pay with a card.
Test Case 2	Browser: Microsoft Edge Date/Time: 21/10/2021 12:03 pm Tester: Aditya Kerhalkar

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	Result: Storing payment details is the responsibility of PayPal. If you have an account you can easily log in, or pay with a card.
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SEPT-28

As a customer, I want to add a review for a book I have bought, so that I can tell others about my opinion.	
GWT 1. Given I am on the 'Purchases' page When I click on a book that I have bought Then I will be able to see its details including the 'Add Review' button.	
Test Case 1	Browser: Google Chrome Date/Time: 21/10/2021 2:04 pm Tester: Aditya Kerhalkar Result: There is no specific 'purchases' page. Reviews can be added through the book listing page and do not depend on whether a user has bought the book.
Test Case 2	Browser: Microsoft Edge Date/Time: 21/10/2021 2:05 pm Tester: Aditya Kerhalkar Result: There is no specific 'purchases' page. Reviews can be added through the book listing page and do not depend on whether a user has bought the book.
GWT 2. Given I have selected a book from 'Purchases' When I click on the button 'Add Review' Then I will be able to add a review for the book.	
Test Case 1	Browser: Google Chrome Date/Time: 21/10/2021 2:04 pm Tester: Aditya Kerhalkar Result: Reviews can be added through the book listing page. Bugs Found: May need to be refreshed before it shows up.
Test Case 2	Browser: Microsoft Edge Date/Time: 21/10/2021 2:05 pm Tester: Aditya Kerhalkar Result: Reviews can be added through the book listing page. Bugs Found: May need to be refreshed before it shows up.

SEPT-30

As a customer, I want to delete a review for a book I have bought, so that I can update my opinion or correct mistakes.	
GWT 1. Given I am on the 'Purchases' page When I click on a book that I have bought Then I will be able to see its details including the 'Delete' button.	
Test Case 1	Browser: Google Chrome Date/Time: 21/10/2021 2:10 pm Tester: Aditya Kerhalkar Result: There is no specific 'purchases' page. Reviews can be deleted through the book listing page.
Test Case 2	Browser: Microsoft Edge

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	Date/Time: 21/10/2021 2:11 pm Tester: Aditya Kerhalkar Result: There is no specific 'purchases' page. Reviews can be added through the book listing page and do not depend on whether a user has bought the book.
GWT 2. Given I have selected a book from 'Purchases' When I click on the button 'Add Review' Then I will be able to add a review for the book.	
Test Case 1	Browser: Google Chrome Date/Time: 21/10/2021 2:10 pm Tester: Aditya Kerhalkar Result: Reviews can be deleted through the book listing page, by clicking the trash icon. Bugs Found: May need to be refreshed before it shows up.
Test Case 2	Browser: Microsoft Edge Date/Time: 21/10/2021 2:11 pm Tester: Aditya Kerhalkar Result: Reviews can be deleted through the book listing page, by clicking the trash icon. Bugs Found: May need to be refreshed before it shows up.

SEPT-38

As a customer, I want to see my transaction history, so that I can ensure that my orders went through without error.	
GWT 1. Given I am logged in and on my user profiles When I click 'Transaction History' Then I will be able to see a list of orders, with not-yet-approved orders at the top.	
Test Case 1	Browser: Google Chrome Date/Time: 21/10/2021 2:15 pm Tester: Aditya Kerhalkar Result: Transaction history doesn't seem to load on the page.
Test Case 2	Browser: Microsoft Edge Date/Time: 21/10/2021 2:16 pm Tester: Aditya Kerhalkar Result: Transaction history doesn't seem to load on the page.

SEPT-39

As a customer, I want to see the status of my current orders, so that I can know whether my orders have been approved.	
GWT 1 & 2. See SEPT-38 above. Results when testing were the same. Transaction history doesn't seem to work...?	

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SEPT-40

As a shop owner, I want to see my transaction history, so that I can find a specific transaction which I have made.

GWT 1 & 2.

See SEPT-38 above.

Results when testing were the same. Transaction history doesn't seem to work...?

SEPT-44

As a buyer, I want to view an image of the book, so that I can see if it is the version I want to buy.

GWT 1.

Given that I have selected a book

When I am browsing around

Then I want to be able to see if it is a hard or soft cover.

Test Case 1

Browser: Google Chrome

Date/Time: 21/10/2021 3:18 pm

Tester: Aditya Kerhalkar

Result: The image is visible (in most cases). However, whether the cover is hard or soft is not obvious.

Test Case 2

Browser: Microsoft Edge

Date/Time: 21/10/2021 3:25 pm

Tester: Aditya Kerhalkar

Result: The image is visible (in most cases). However, whether the cover is hard or soft is not obvious.

SEPT-51

As a buyer, I want to use PayPal, so that I don't have to provide my credit card details directly with the site.

GWT 1.

Given that I want to use PayPal as a payment method

When I buy a book

Then I would like to just click on PayPal and not insert my details.

Test Case 1

Browser: Google Chrome

Date/Time: 21/10/2021 5:11 pm

Tester: Aditya Kerhalkar

Result: If you have a PayPal account you can log into it and buy the book that way.

Test Case 2

Browser: Microsoft Edge

Date/Time: 21/10/2021 5:15 pm

Tester: Aditya Kerhalkar

Result: If you have a PayPal account you can log into it and buy the book that way.

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As a buyer, I want to enter my postal address, so I can receive books I have purchased at the address I have provided.

(NOTE that the original acceptance criteria referred to an unregistered user being able to do this, which is not possible.)

GWT 1.

Given that I am a customer

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When I go to enter my details Then there should be a text field where I can enter my address	
Test Case 1	Browser: Google Chrome Date/Time: 21/10/2021 5:32 pm Tester: Aditya Kerhalkar Result: Address can be changed.
Test Case 2	Browser: Microsoft Edge Date/Time: 21/10/2021 5:33 pm Tester: Aditya Kerhalkar Result: Address can be changed.
GWT 2. Given that I am a customer When I enter an invalid address in the registration field Then an error message should appear informing me that the address is invalid.	
Test Case 1	Browser: Google Chrome Date/Time: 21/10/2021 5:34 pm Tester: Aditya Kerhalkar Result: Entering invalid details stops you from saving.
Test Case 2	Browser: Microsoft Edge Date/Time: 21/10/2021 5:35 pm Tester: Aditya Kerhalkar Result: Entering invalid details stops you from saving.

These are all the user stories which actually have acceptance criteria.

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Evidence of Communication:

Documentation about each meeting can be found on files starting with the date of when the meeting occurred. All meetings and report logs are visible on our MS teams link (can be found below). Written communication was also done on MS teams.

Figure 1:

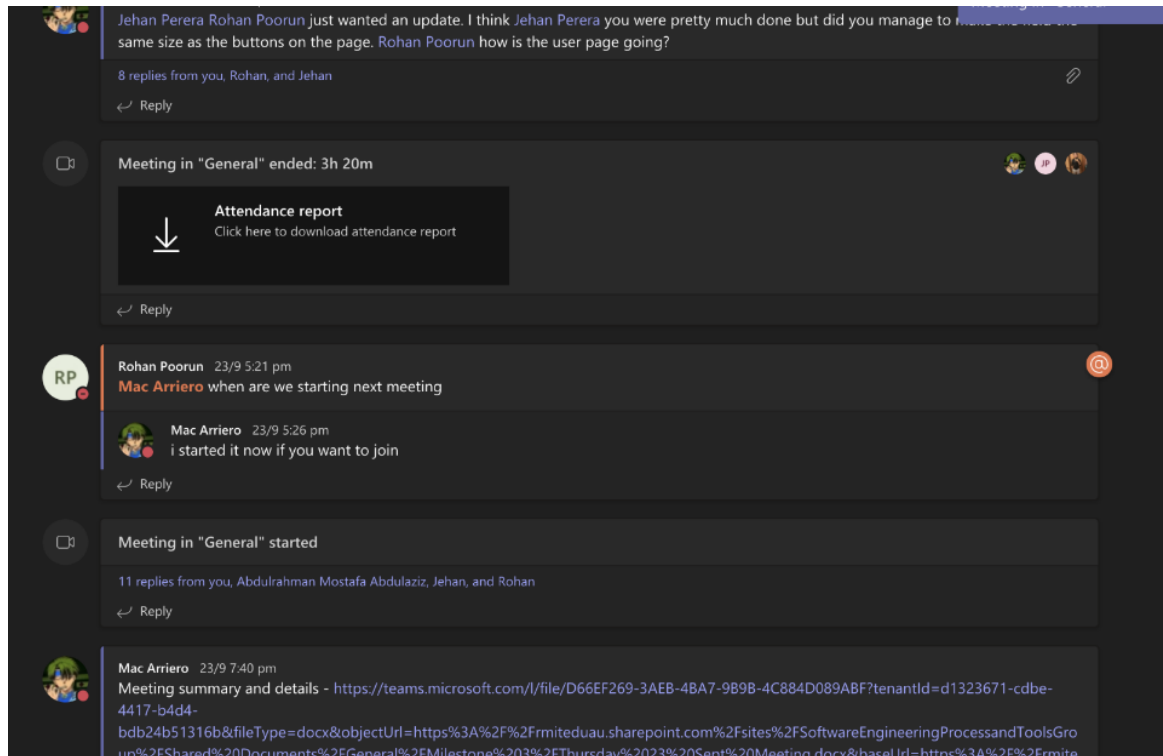
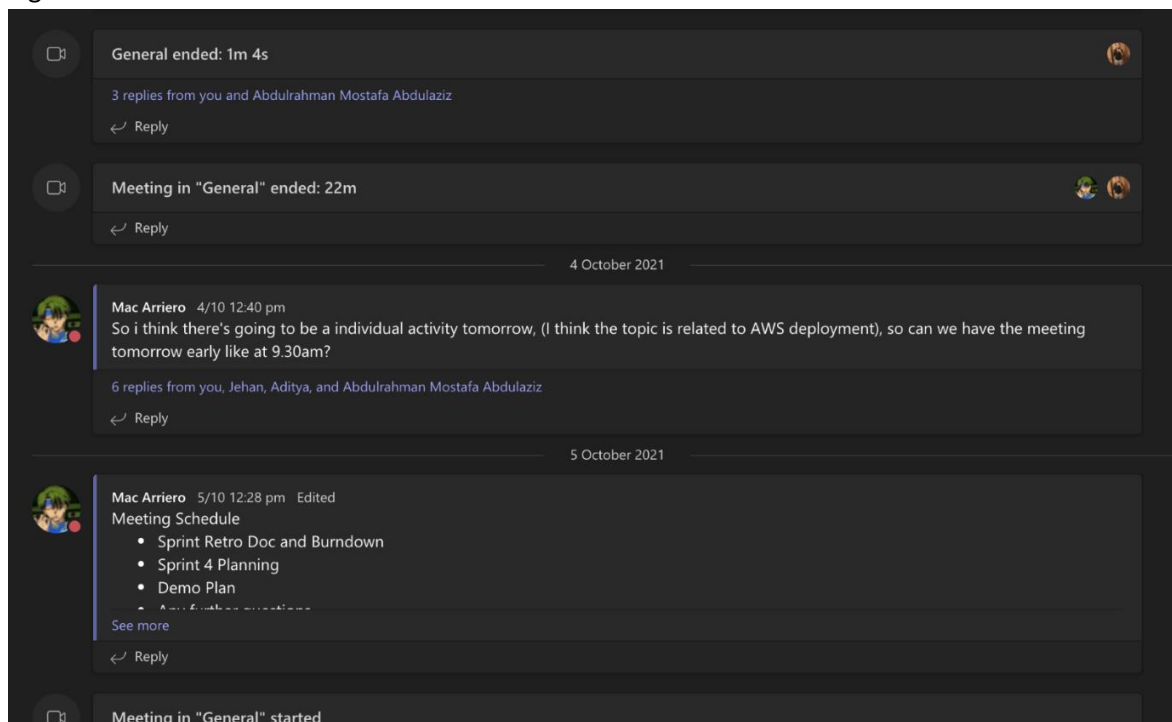
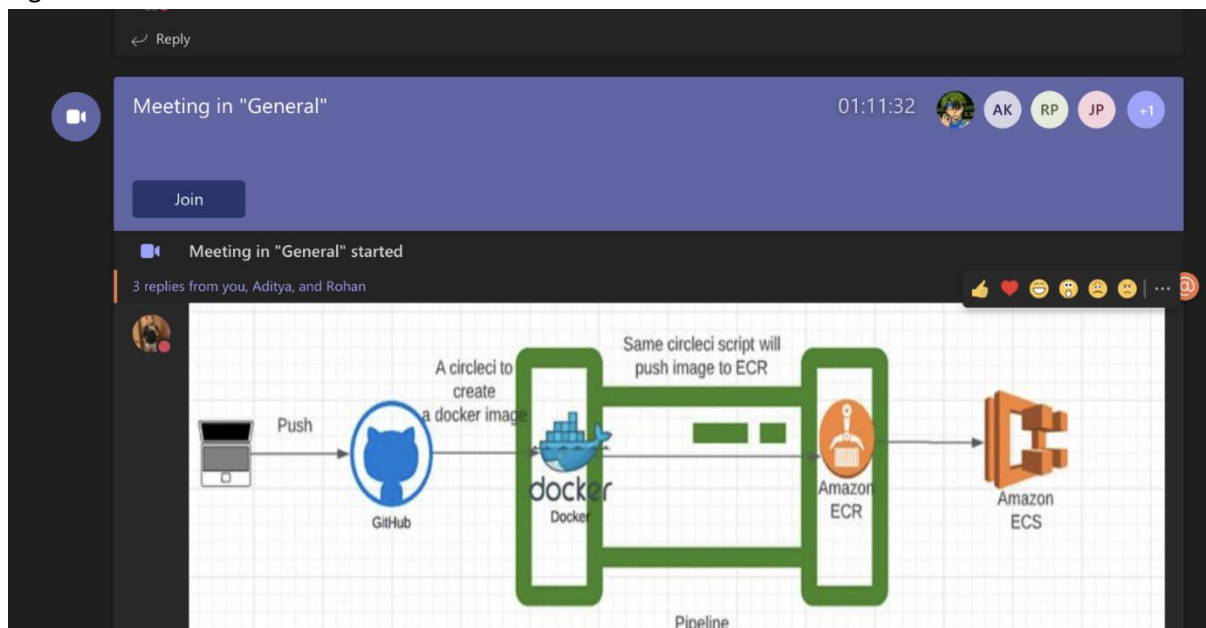


Figure 2:



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Figure 3:



Project Links:

Github repository: <https://github.com/AbdoTech93/BookerooApp-SEPT>

Jira Board: <https://team-1627528793067.atlassian.net/jira/software/projects/SEPT/boards/1>

MSTeams Docs: <https://teams.microsoft.com/#/school/files/General?threadId=19:46Vf8TAhIW-dVU04Degd79aDlmpKx4CTXLqexf5F9SM1@thread.tacv2&ctx=channel>

MS Teams: <https://teams.microsoft.com/l/team/19%3a46Vf8TAhIW-dVU04Degd79aDlmpKx4CTXLqexf5F9SM1%40thread.tacv2/conversations?groupId=a06e048a-0f30-4ce5-9e2a-b94e5fdbcb8fb&tenantId=d1323671-cdbe-4417-b4d4-bdb24b51316b>

Main Entry Point: <http://bookeroo-webapp.s3-website-us-east-1.amazonaws.com/>
(Services not constantly running due to high AWS services costs (spoken to Homy) services will be re-opened upon request)

CircleCI Pipeline: <https://app.circleci.com/pipelines/github/AbdoTech93/BookerooApp-SEPT>