Book App Case Study



1	Name of the Project	Book App	AN NIIT
2	Objective/ Vision	Create a Book App with Dashboard view having three sections - Display Favorite, Author, recommendations for a book from openlibrary.org developer api one under the other. - This Dashboard is the default view to be shown. - The 3 sections are: - Favorite books - Author - Recommended books - View All Favorite book cards under Favorite section - Display all Author under Author section - View all book recommendations from 3rd party books service provider (openlibrary.org) under recommendations section	rentur.
3	Users of the System	All Internet users	
4	Functional Requirements	 Home Page should consist of Register page link through which a user can register himself. Upon registration, the user able to login into his account. User home page should also have options for to edit his profile and changing his password. Search: Search for a particular Book or Author Favorite Service - View All Favorite book cards under Favorite section View all book recommendations from 3rd party books service provider (openlibrary.org) under recommendations section 	
5	Non-functional requirements	 a) App should be accessible from any location with access to the Internet. b) App should be responsive to display consistently across multiple device screens. c) App should have an intuitive UI that can be operated by novice-expert Internet users 	
6	Tools and Technologies to be used	 VCS : Gitlab Middleware : Spring Boot Frond end : Angular/React Data Store : MongoDB / MySQL Testing : JUnit, Mocha, Chai, Jest, Protractor Container : Docker Bug Fix : Sonarlint Cl : Gitlab 	

User Stories

1	As a user I should be able to register with the application so that I can login and use the functionalities of the application.		
2	As a user, I should be able to login with my user name and password in order to access the functionalities of the application.		
3	As a user, I should be able to login with my Gmail account in order to access the functionalities of the application.(Optional Requirement)		
4	As a user I should be able to search resources to view their details		
5	As a user, I should be able to save resources to a wishlist/favourite so that I can access them later		
6	As a user, I should be able to access items saved to my wishlist/favourite		

Notes:

- The application should be based on microservices architecture
- API Gateway pattern should be implemented using Spring Cloud Gateway
- Services should register themselves with Eureka Service Discovery server.
- All layers of microservices should be covered with automated unit and integration tests
- All microservice endpoints should have API documentation

High Level Architecture Diagram



