



Book Sharing OnLine

Problem Statement

One of the largest and leading Book Sharing OnLine, serving millions of customers across the world offering a range of books from History, Scientific, Management, Technical, Fiction & Non Fiction. The Book Sharing OnLine has historically been served by a large monolith system. This system has Customer information, Transaction information, Account information.

Design simple application for Book Sharing OnLine website with Asp.net core, Web API, Angular 6+, Angular and dotnet unit testing using Jasmine & Karma and Ms Test, proper normalisation, collection, proper exception handling, EF, Log4net and C#.

Hardware and Software Requirement

1. Hardware Requirement:
 - a. Developer PC with 8GB RAM
2. Software Requirement
 - a. Visual Studio 2019
 - b. Visual studio code
 - c. C# 6+
 - d. Swagger
 - e. MS SQL Server
 - f. Log4net
 - g. Entity Framework
 - h. Git
 - i. Azure
 - j. Others Open-Source tools

Core Module includes:



- Create API as the Book Sharing Online. The system should be extremely performant
- It is also desired to use separate development teams to work in parallel on the core services supporting Account management, Transaction management, Customer Management services and their supporting applications simultaneously. This should accelerate development and delivery times.
- C# as a Programming Language.
- Angular 6 Spa UI portal that loads the UI and takes care of user sessions.
- MS Test with MOQ is used as Test Driven Development Framework.
- Log4net in API to Generate Loggers.

Develop the application using following steps:

1. API

Account management Module is an api module that performs following operations:

- a) Create User Account
- b) A User can be both, buyer and seller at the same time
- c) LOGIN: A user can have a unique and personal account.

Transactions Module is an api module that performs the following operations:

- a) SEARCH: A user can search a book of his choice.
- b) RATING: A user can give rating to a book.
- c) ORDER: A user can place an order.
- d) CART: A user can have a shopping cart and update it as per his will.
- e) UPLOAD: A user can upload any book that he wants to sell.
- f) BUY: A user can buy any of the available books.

2. UI Portal

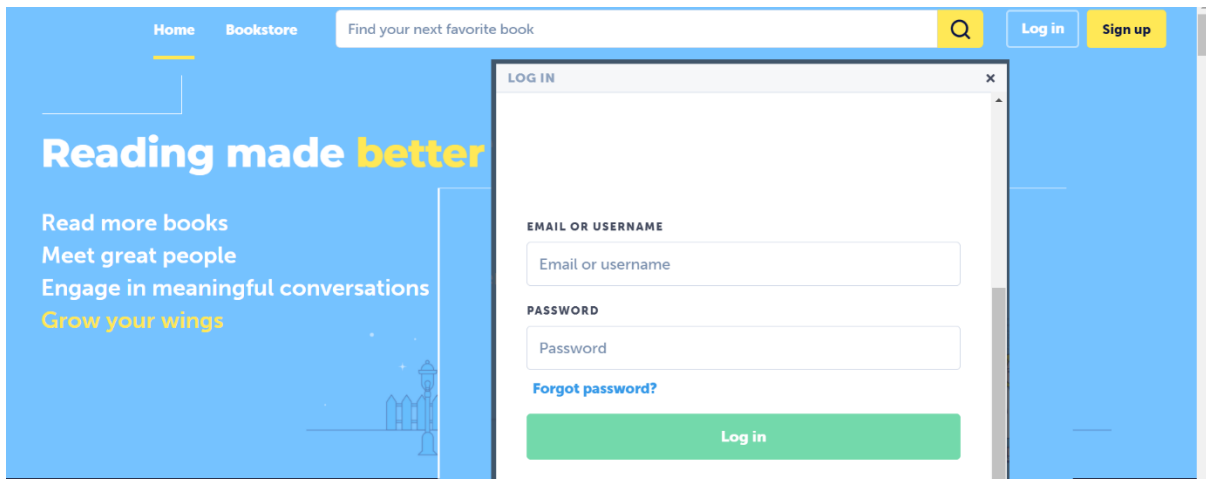
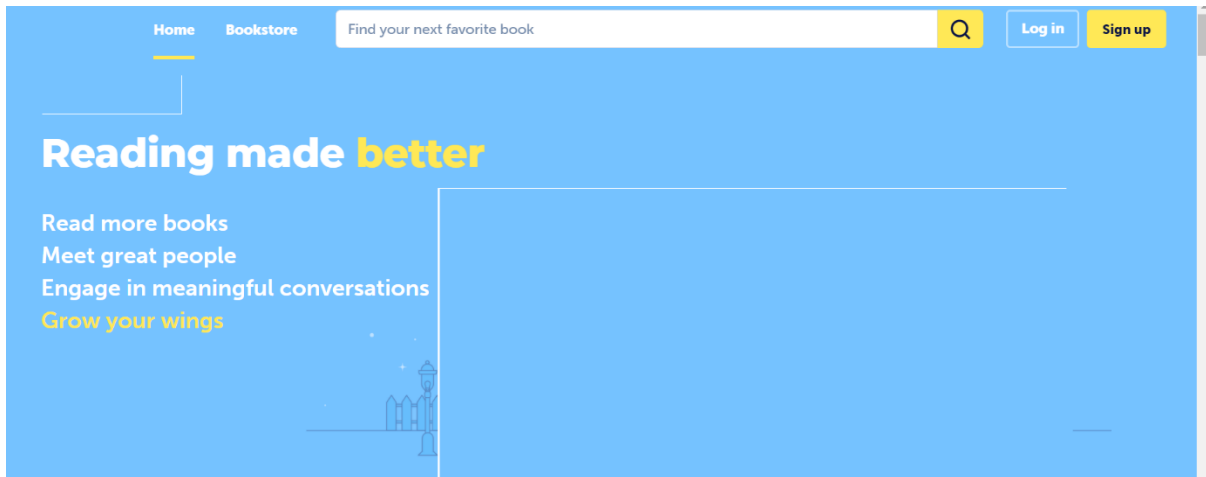
- a) Loads the UI and take care of user sessions.
- b) UI portal to be created using Angular SPA

3. Cloud Deployment requirements

Use git and push the application in the repository .Use Bitbucket or Azure Repository.

- a) API must be deployed in Azure Cloud
- b) Angular must be deployed in Azure Cloud

Sample Output:



Website Name/Logo

[Home](#) [Categories](#) [Cart](#) [Upload](#)

Best Sellers

Display Book

Display Book

Display Book

Trending Books

Display Book

Display Book

Display Book

Latest Uploads

Display Book

Display Book

Display Book

CLICK ON BOOK

BACK

BOOK FRONT PIC

BOOK PRICE

DESCRIPTION OF THE PRODUCT(BOOK)

ADD TO CART

BUY NOW

PUBLISHED BY AUTHOR

Search Books

SEARCH

[Signin](#) [Register](#) [Cart](#)

Your CART Details

No.	Book	Quantity	Price	Sum Total

Upload Book

Book Front Page

Author Name

Details

Price

UPLOAD