

Review Book

Table of Contents

Introduction.....	2
Problem statement and their solutions.....	2
Core Problem:-.....	2
Solution:-.....	2
Domain Study:-.....	2
Identify the Stakeholder of the Product (Persona):-.....	2
Architecture Diagram.....	3
Architecture of ReviewBook.....	4
User Story or High-level Features.....	4
Prototype Screen.....	6
Spring boot Application - Microservice Architecture.....	7
Microservices Decomposition:-.....	7
API Gateway.....	8
Data models.....	8
Databases Implementation.....	10
RabbitMq of ReviewBook.....	10
Angular application Architecture.....	11
Screenshot of live pages.....	12
Landing Page Registration Page.....	12
registration as a normal user.....	13
Registration as a product owner.....	14
Home Page.....	15
footer.....	15
Product (add new product page).....	16
My Products.....	17
Update Product.....	17
Profile update page.....	18
Review and Rating pages.....	19
review page.....	19
Technology Used.....	20
Conclusion.....	20
References.....	20
Source code:-.....	20

Introduction

Problem statement and their solutions

Core Problem:-

How to motivate max. number of consumers to provide genuine reviews and ratings that can influence buying decisions of other consumers

Solution:-

Developed a Product – “ReviewBook platform”

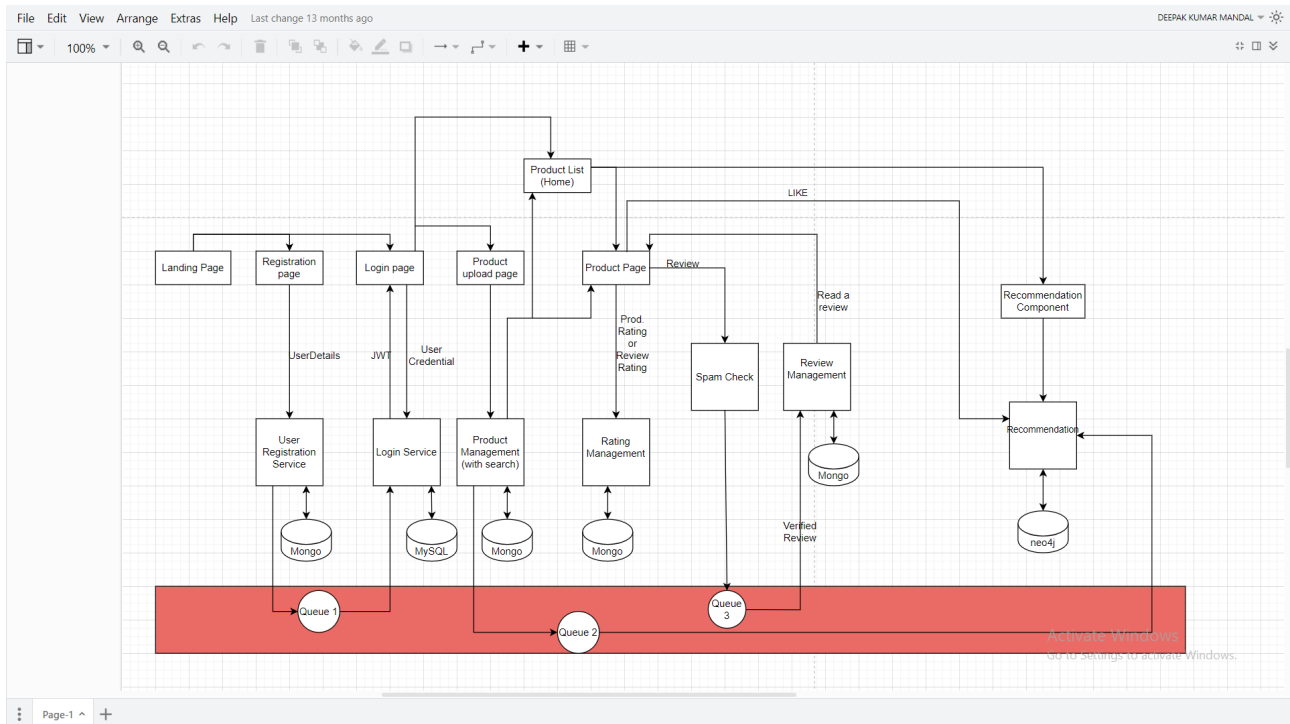
Domain Study:-

eCommerce => Reviews and ratings

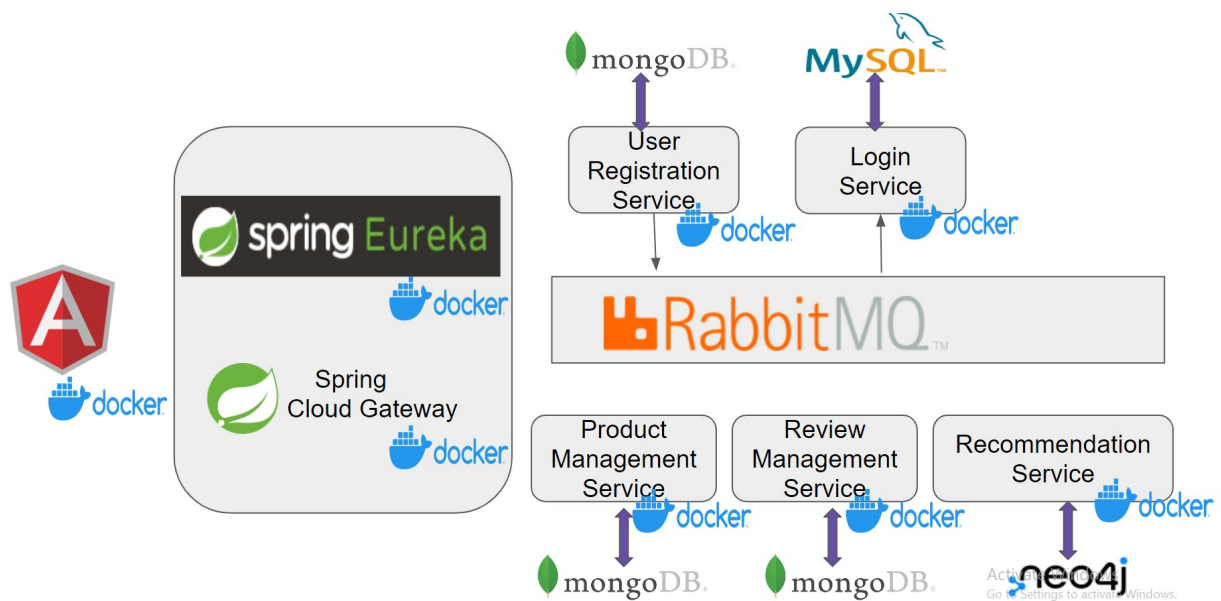
Identify the Stakeholder of the Product (Persona):-

- Businesses
- employees
- Investor of eCommerce with review & rating domain
- Customers(Users) and Provider of Product
- Sales executive or Influencers
- Sponsors
- Suppliers and vendors

Architecture Diagram



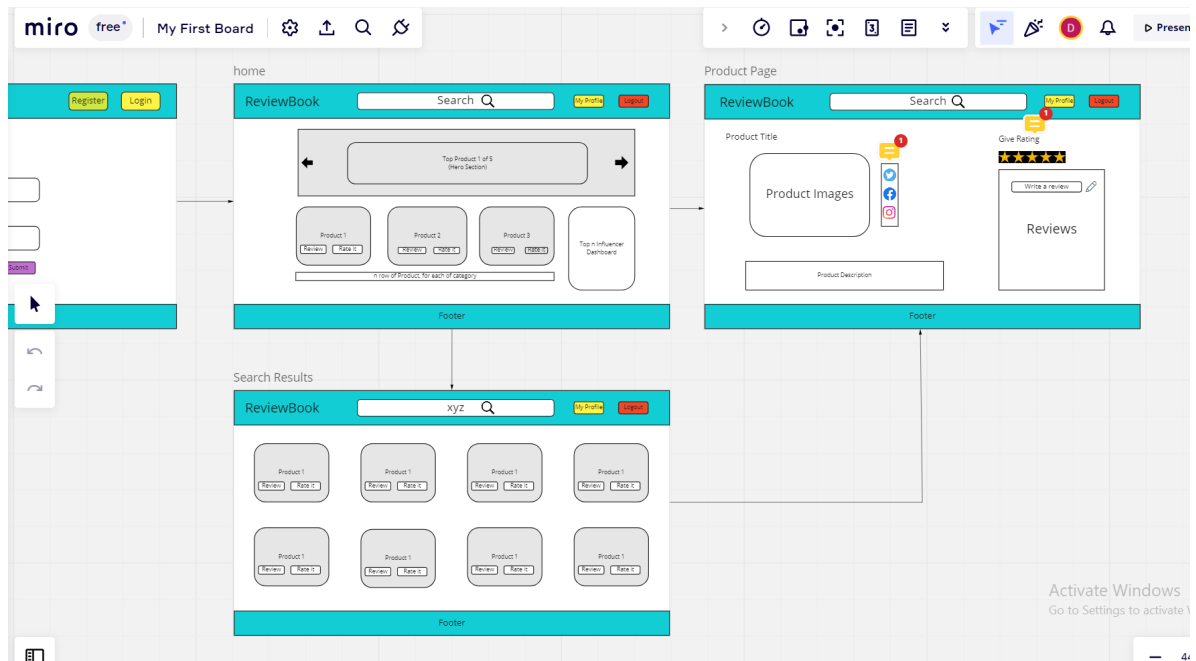
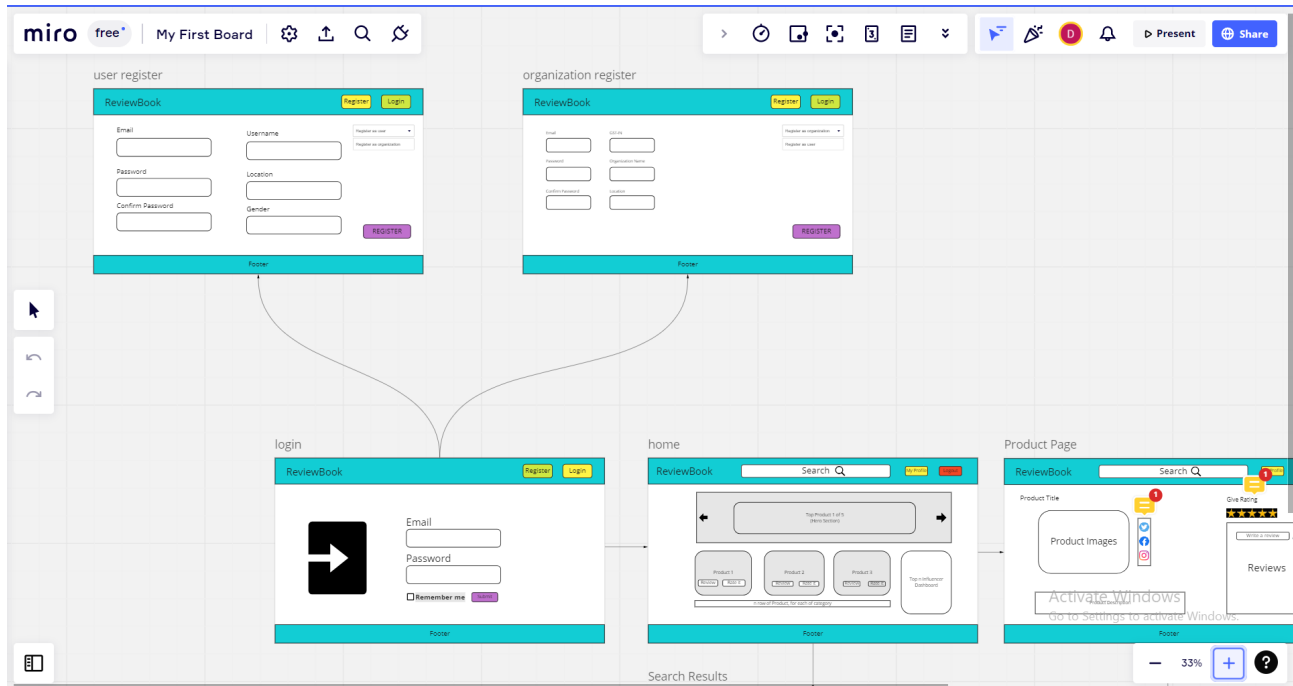
Architecture of ReviewBook

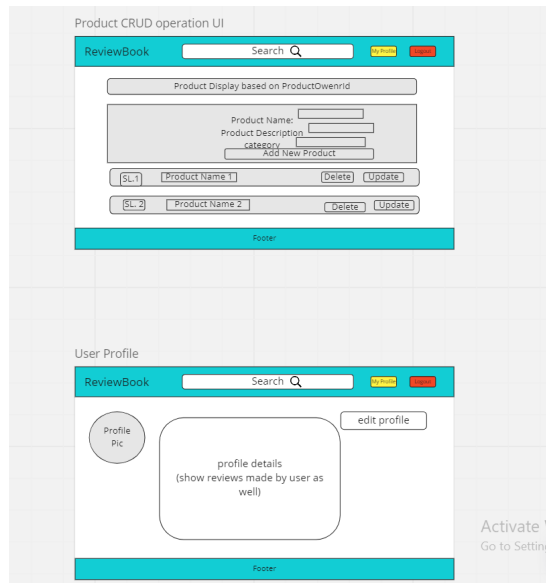


User Story or High-level Features

- As a guest-user, I must be able see the landing page which displays basic information about the platform.
- As a guest-user, I must be able to See all the Available Products on the platform
- As a logged-in user, I must be able to read review and give review
- As a logged-in user, I must be able to like/rate other's reviews.
- As a guest user, I must be able to register myself on the platform as a regular user or as a product owner.
- As a logged-in user, I must be able to search.
- As a registered user, I must be able to login using correct credentials.
- As a Product Owner, I must be able to Add new Product details on the platform.
- As a Product owner, I must be able to Update my added products.
- As a Product Owner, I must be able to Delete my existing Product on the platform.
- As a logged-in user, I must be able to view and edit my profile.
- As a Product Owner, I must be able to see the product that I have added so far on the platform

Prototype Screen





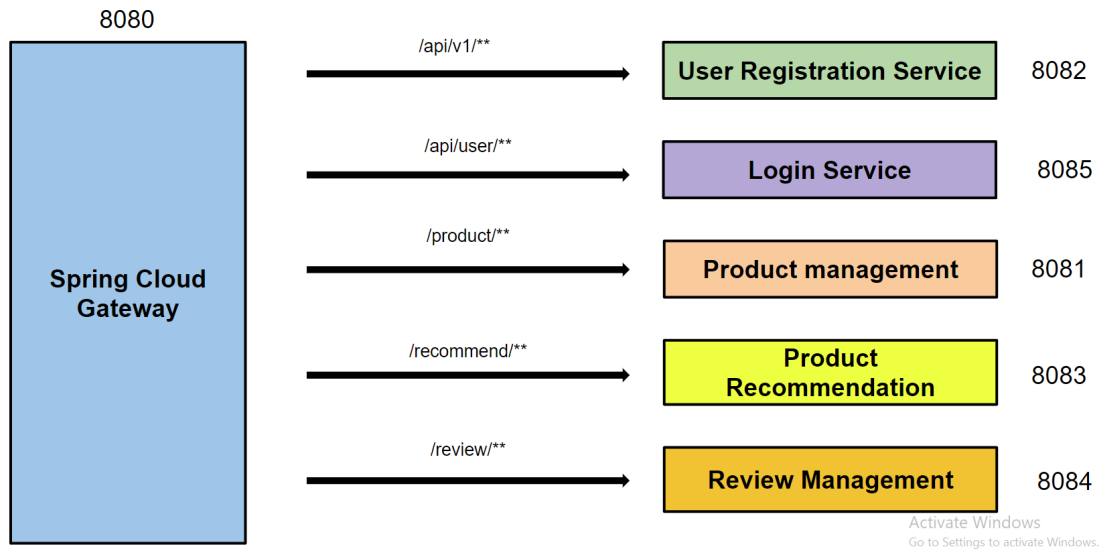
Spring boot Application - Microservice Architecture

Microservices Decomposition:-

1. Login microservice
2. User Register and Organization Registration
3. Product Management (Catalog)
4. Review Management service
5. Rating service
6. Search
7. Product Recommendation Management
8. Add Favorite service
9. Admin-Portal

API Gateway

Spring Cloud Gateway in Review-Book



Data models

- User-Registration

```
{
  "username":
  "password":
  "Email":
  Role:
  Organisation-Registration
    "username":
    "password":
    "Organisation name":
    "GST IN":
    "Location":
    "email":
}
```
- Login

```
{
  "username":
  "Password":
  "role": "ProductOwner/user"
```

```
}
```

- Product

```
{  
  "productId":UUID  
  "productName":  
  "productDescription":  
  "verificationId":  
  "category":  
  "averageRating":  
  "imageByte":Byte[]  
  "Specifications":String[]  
}
```

- Review

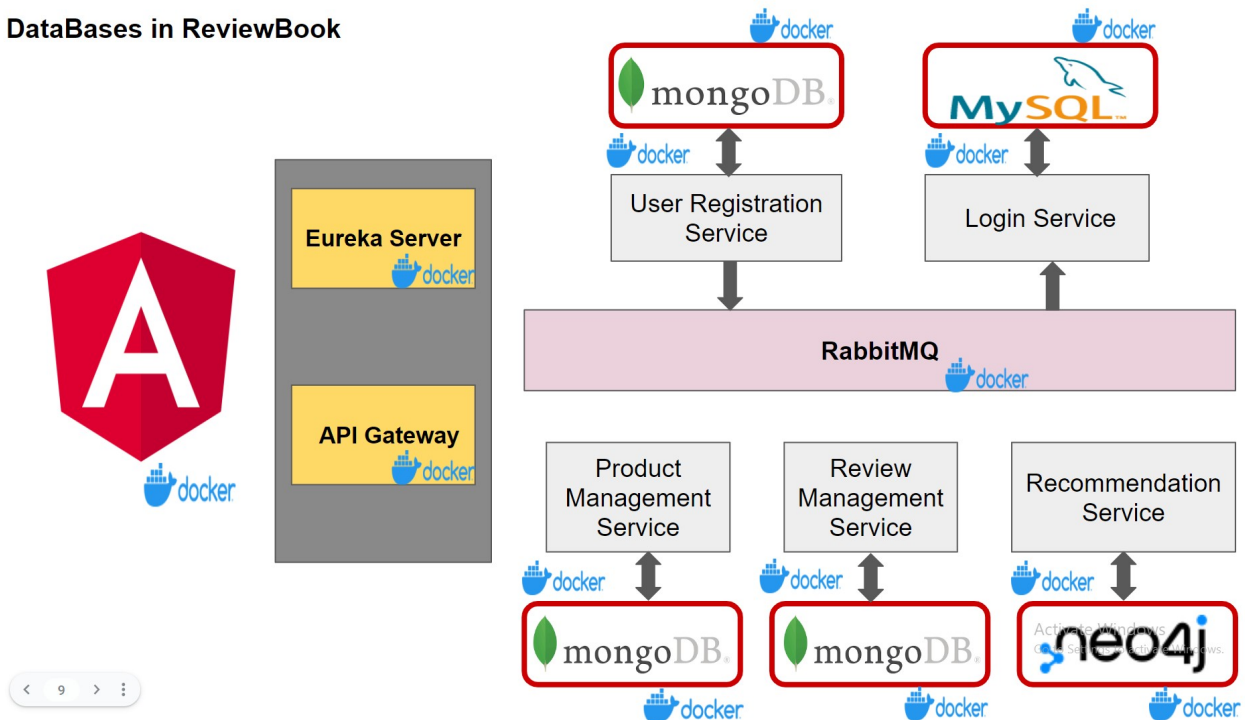
```
{  
  "reviewId":UUID,  
  "productId": UUID (will get it from address bar),  
  "productCategory":  
  "reviewTitle":"String",  
  "reviewText":"String",  
  "reviewedBy":"name"(will get it from localStorage),  
  "reviewDate":Date,  
  "likeCount":number,  
  "dislikeCount":number,  
  "likedUser":HashSet of username,  
  "dislikedUser": Hashset of username,  
}
```

- Rating

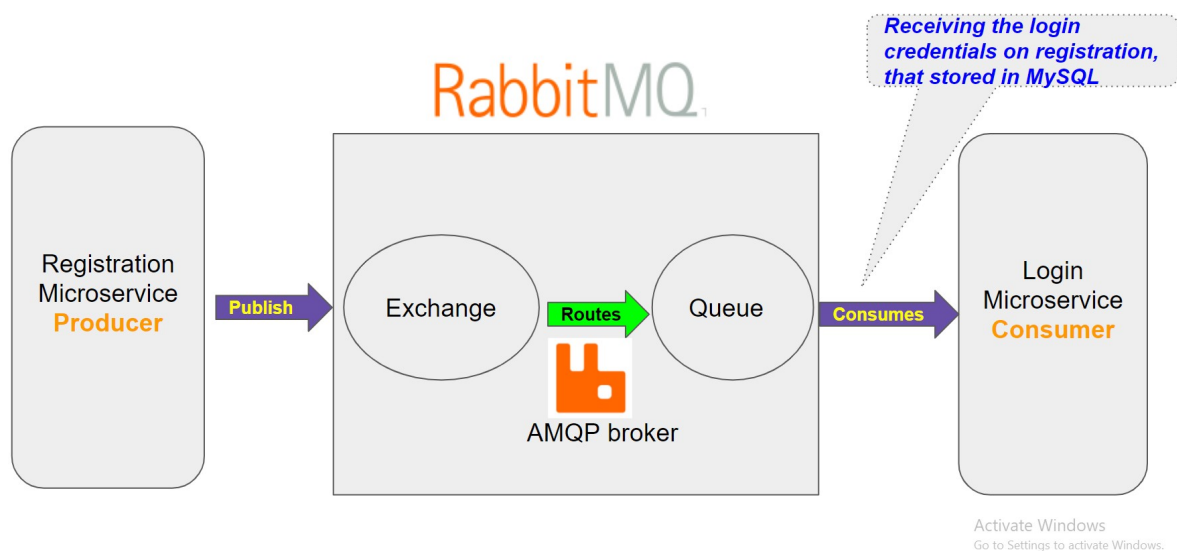
```
{  
  "userId":  
  "productId:  
  "productRating",  
    "InfluencerSoreOrRating"  
}
```


Databases Implementation

DataBases in ReviewBook



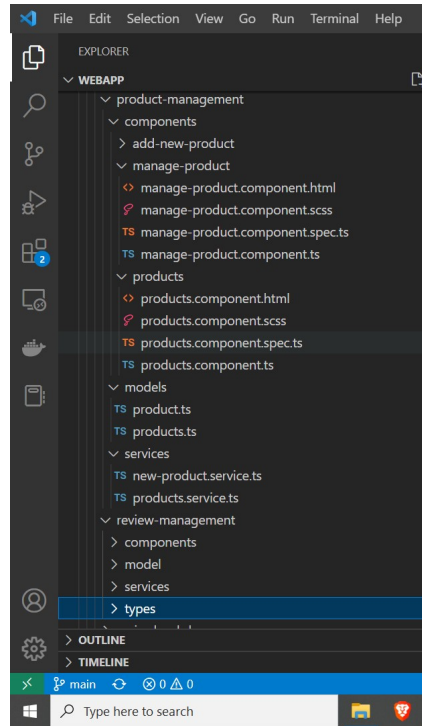
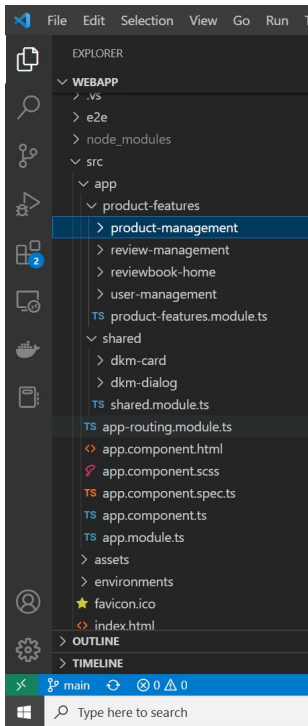
RabbitMq of ReviewBook



Angular application Architecture

Product-features Module consists of UI functionality (components, services) implementation corresponding to each of microservices. Angular Materials, Bootstrap apart from angular is also used for designing the pages.

A high-level of coding standard has been followed in angular code bases



Screenshot of live pages

Landing Page

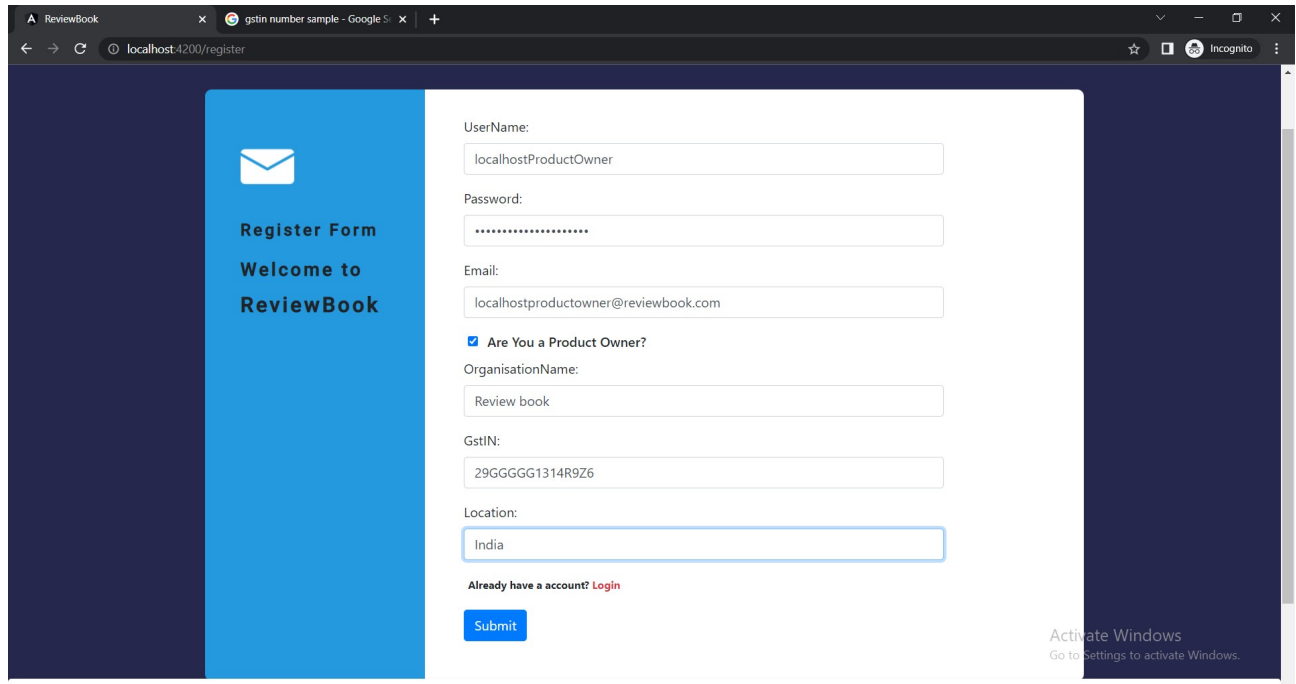


Registration Page

registration as a normal user

A screenshot of the ReviewBook registration page in a web browser. The browser's address bar shows 'localhost:4200/register'. The page has a dark blue background. On the left, a blue vertical panel contains an envelope icon and the text 'Register Form' and 'Welcome to ReviewBook'. On the right, a white registration form is displayed with the following fields: 'UserName:' (containing 'localhostAdmin'), 'Password:' (with masked characters), and 'Email:' (containing 'localhostadmin@reviewbook.com'). Below these fields is a checkbox labeled 'Are You a Product Owner?'. At the bottom of the form, there is a link 'Already have an account? Login' and a blue 'Submit' button.

Registration as a product owner

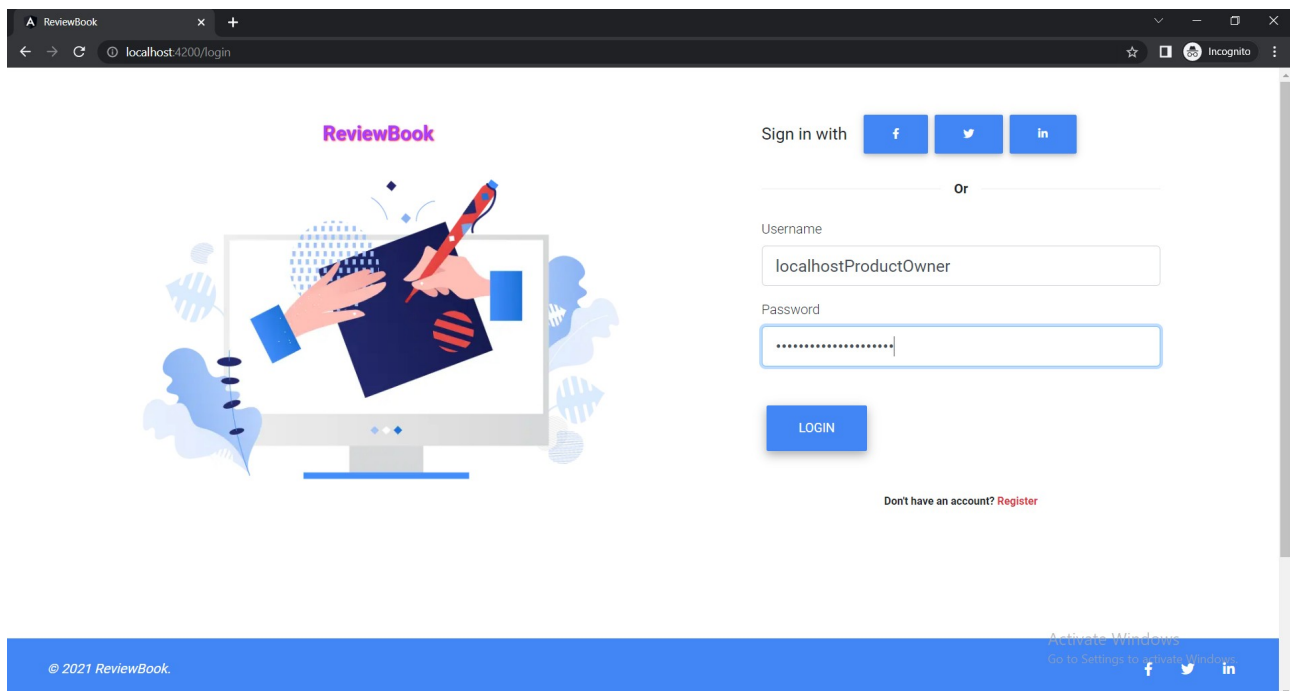


The screenshot shows a web browser window with the URL `localhost:4200/register`. The page has a dark blue header and a light blue sidebar. The sidebar contains an envelope icon and the text "Register Form" and "Welcome to ReviewBook". The main content area is a registration form with the following fields:

- UserName:** `localhostProductOwner`
- Password:** (masked with dots)
- Email:** `localhostproductowner@reviewbook.com`
- ☒ **Are You a Product Owner?**
- OrganisationName:** `Review book`
- GstIN:** `29GGGGG1314R9Z6`
- Location:** `India`

Below the form, there is a link "Already have an account? [Login](#)" and a blue "Submit" button. An "Activate Windows" watermark is visible in the bottom right corner.

Login page

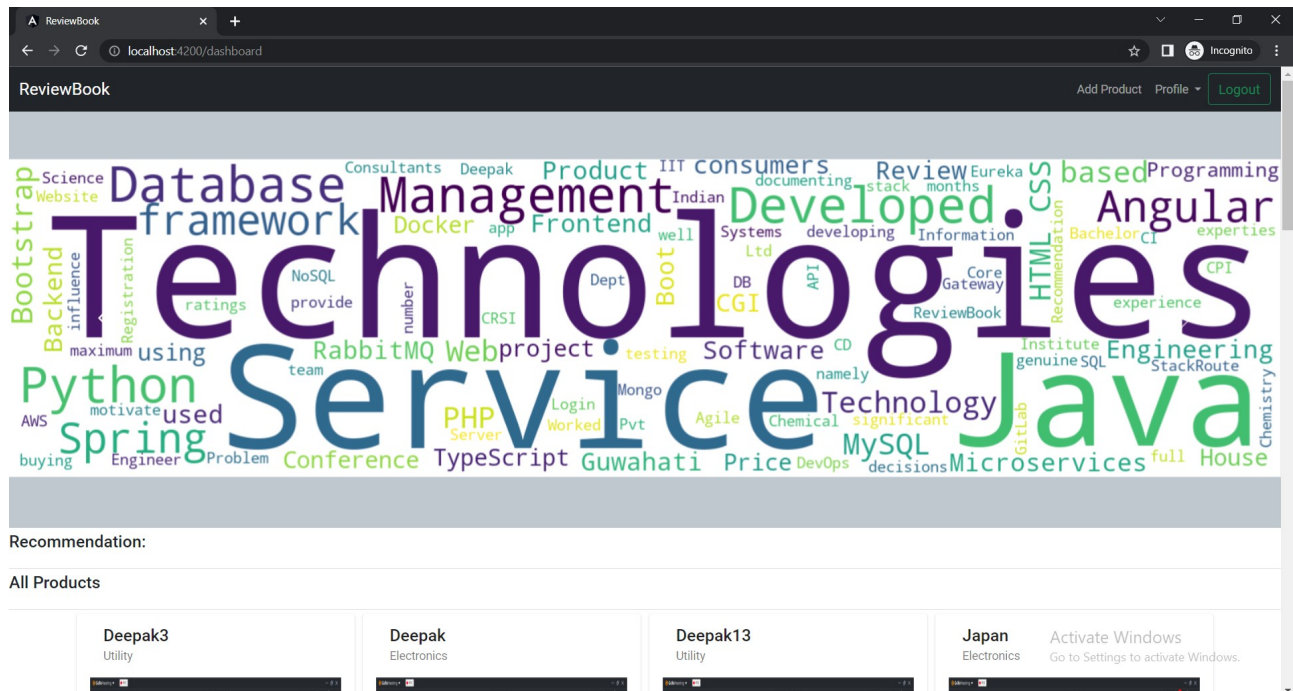


The screenshot shows a web browser window with the URL `localhost:4200/login`. The page has a dark blue header and a light blue sidebar. The sidebar contains an illustration of a hand pointing at a computer screen with a document and a pen. The main content area is a login form with the following elements:

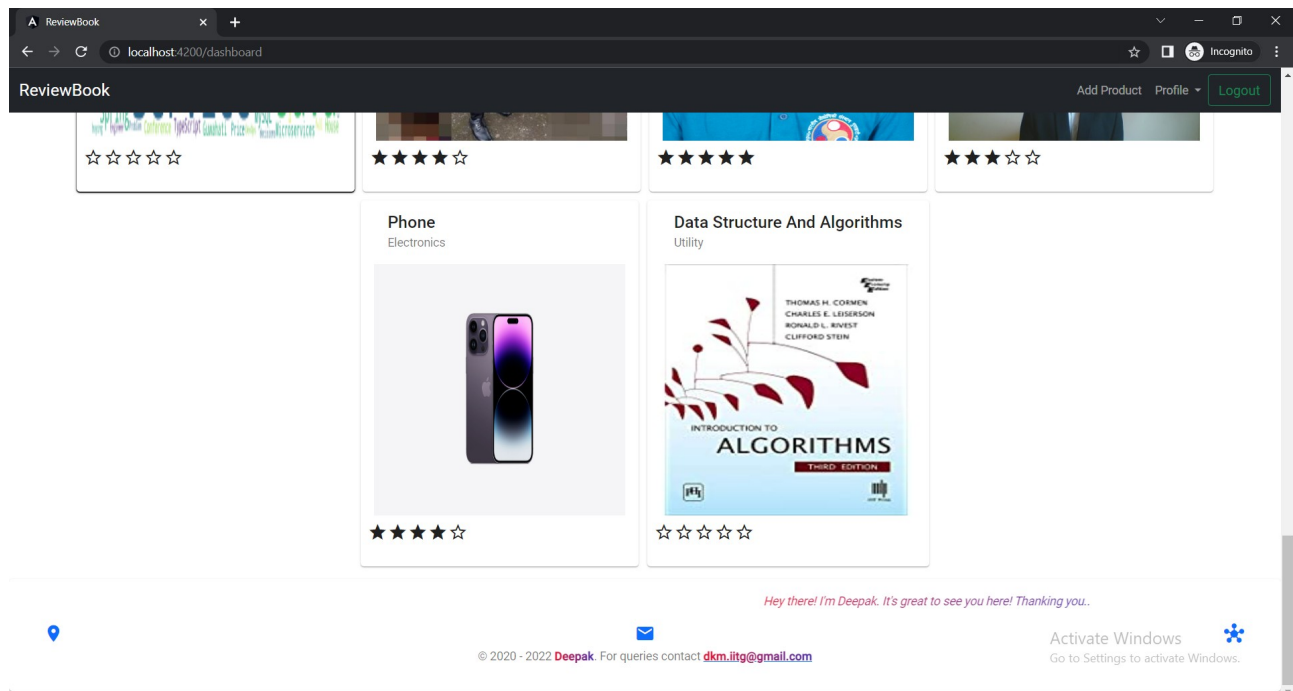
- Sign in with:** Facebook, Twitter, and LinkedIn buttons.
- Or**
- Username:** `localhostProductOwner`
- Password:** (masked with dots)
- LOGIN** button
- Don't have an account? [Register](#)**

At the bottom, there is a blue footer with the text "© 2021 ReviewBook." and social media icons for Facebook, Twitter, and LinkedIn. An "Activate Windows" watermark is visible in the bottom right corner.

Home Page



footer



Product (add new product page)

ReviewBook

Add ProductProfileLogout

ENTER PRODUCT DETAILS

Name

Phone

Description

smart phone

Verification Id

123456

Category

Electronics

Add Specification

512 GB RAM

Delete

OLED Display

Delete

5.5 inch Display size

Delete

Upload Image

ReviewBook

Add ProductProfileLogout

OLED Display

Delete


5.5 inch Display size

Delete

Upload Image

Choose Filephone.jpg

Image Preview



Submit Product

Reset

My Products

ReviewBook


localhost:4200/products

Add ProductProfileLogout

Account: Localhostproductowner

Phone

Electronics



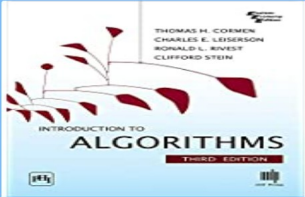
product Description: smart phone
Product Verification Id: 123456
Product Specifications:

- 512 GB RAM
- OLED Display
- 5.5 inch Display size

Update ProductDelete

Data Structure And Algorithms

Utility



product Description: Book
Product Verification Id: 147852
Product Specifications:

- Data Structures
- Algorithms

Update ProductDelete

Activate Windows
Go to Settings to activate Windows.

Update Product

ReviewBook

localhost:4200/products

Add ProductProfileLogout

Please edit data to update the existing records

Product Name

UpdatedPhone

Product Description

smart phone

Verification Id

123456

Category

Product Image

Choose FileNo file chosen

Add Specification

512 GB RAM

Delete

OLED Display

Delete

5.5 inch Display size

Delete

Update

Activate Windows
Go to Settings to activate Windows.

Hey there! I'm Deepak. It's great to see you here! Thanking you..

Profile update page

The screenshot shows a web browser window with the address bar displaying 'localhost:4200/profile'. The page title is 'ReviewBook'. The navigation bar includes 'Add Product', 'Profile', and a 'Logout' button. The main content area is titled 'Edit Profile' and contains a 'Personal info:' section. This section includes input fields for 'UserName' (with the value 'localhostProductOwner' and a note 'UserName should be unique'), 'Enter your password', and 'Enter your email' (with the value 'productowner@reviewbook.c'). Below these are fields for 'OrganisationName' (Review book), 'OstIDN' (29GGGGG1314R9Z6), and 'Location' (India). At the bottom of the form are 'Save Changes' and 'My Products' buttons. A message 'ee you here! Thanking you..' is displayed below the form. The footer contains a location pin icon, a copyright notice '© 2020 - 2022 Deepak. For queries contact dkm.litg@gmail.com', and a gear icon.

ReviewBook

Add Product Profile Logout

Edit Profile

Personal info:

UserName
localhostProductOwner

UserName should be unique

Enter your password

Enter your email
productowner@reviewbook.c

OrganisationName
Review book

OstIDN
29GGGGG1314R9Z6

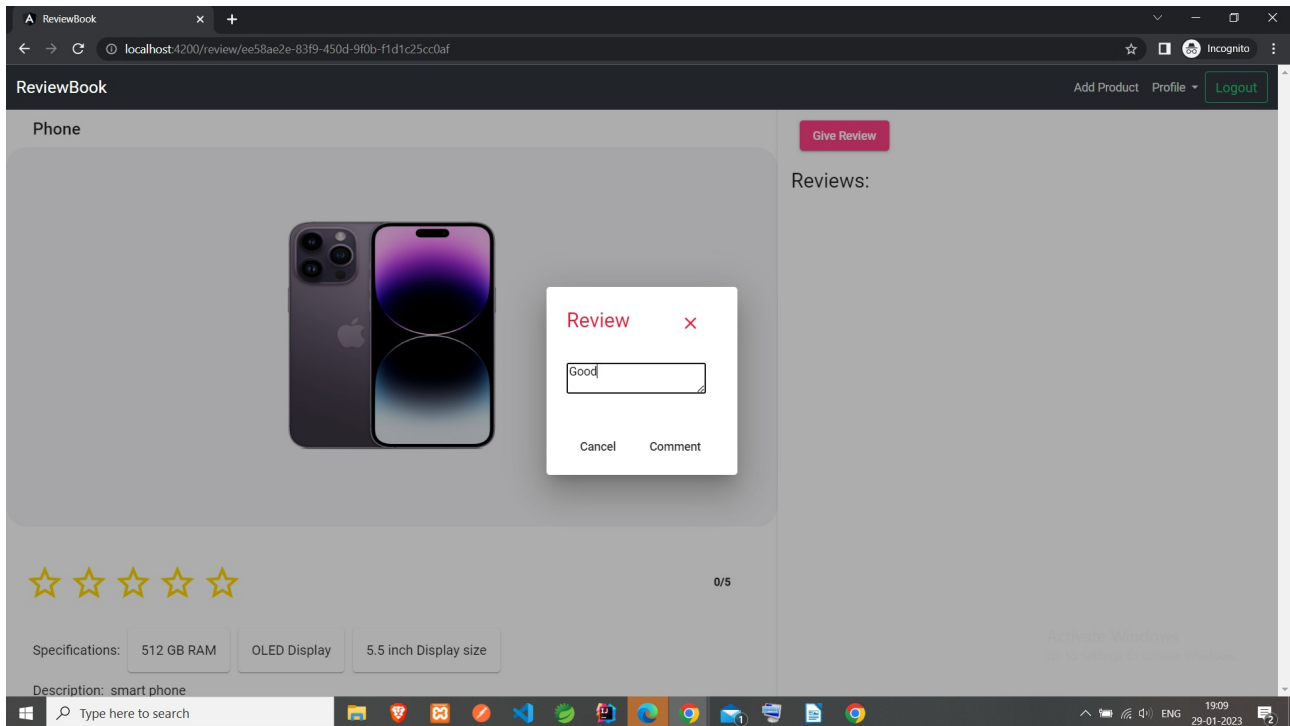
Location
India

Save Changes My Products

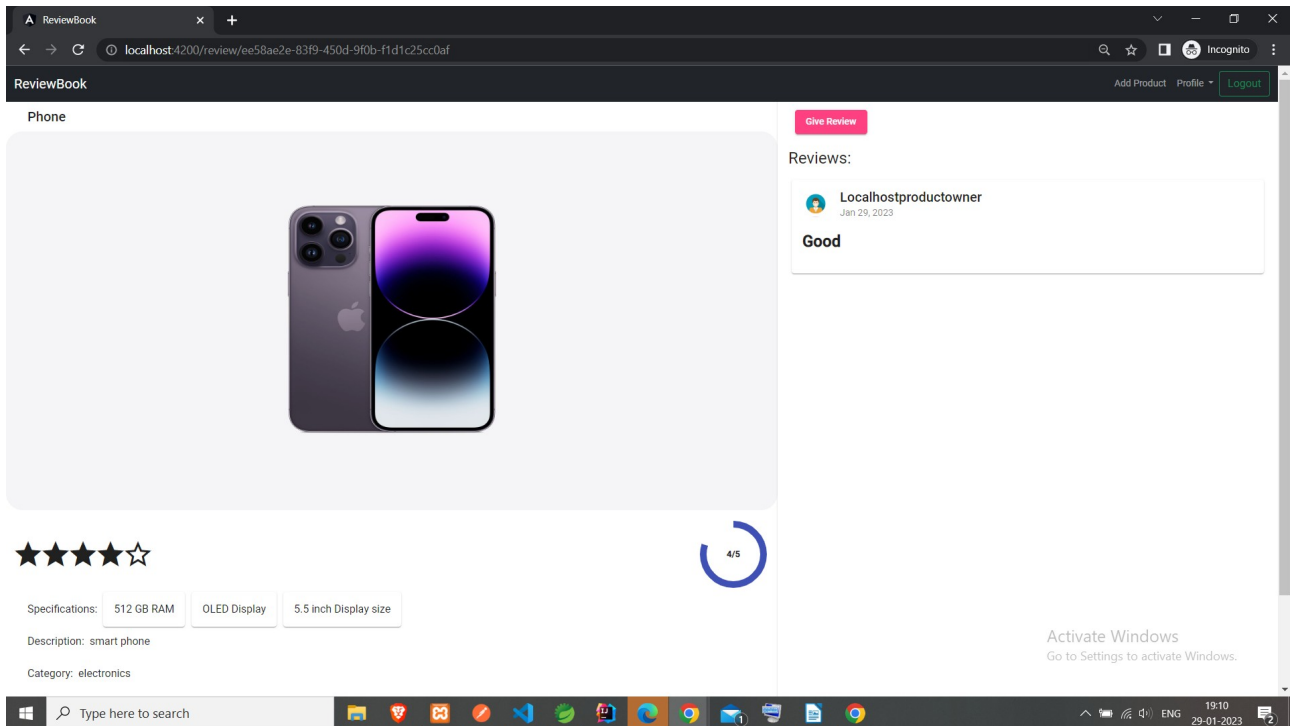
ee you here! Thanking you..

© 2020 - 2022 Deepak. For queries contact dkm.litg@gmail.com

Review and Rating pages



review page



Technology Used



Conclusion

Developed a ReviewBook platform as solution the core problem, which is fully working as expected.

References

Source code:-

<https://github.com/deepak-mandal/ReviewBook>

END