Review Book

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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”

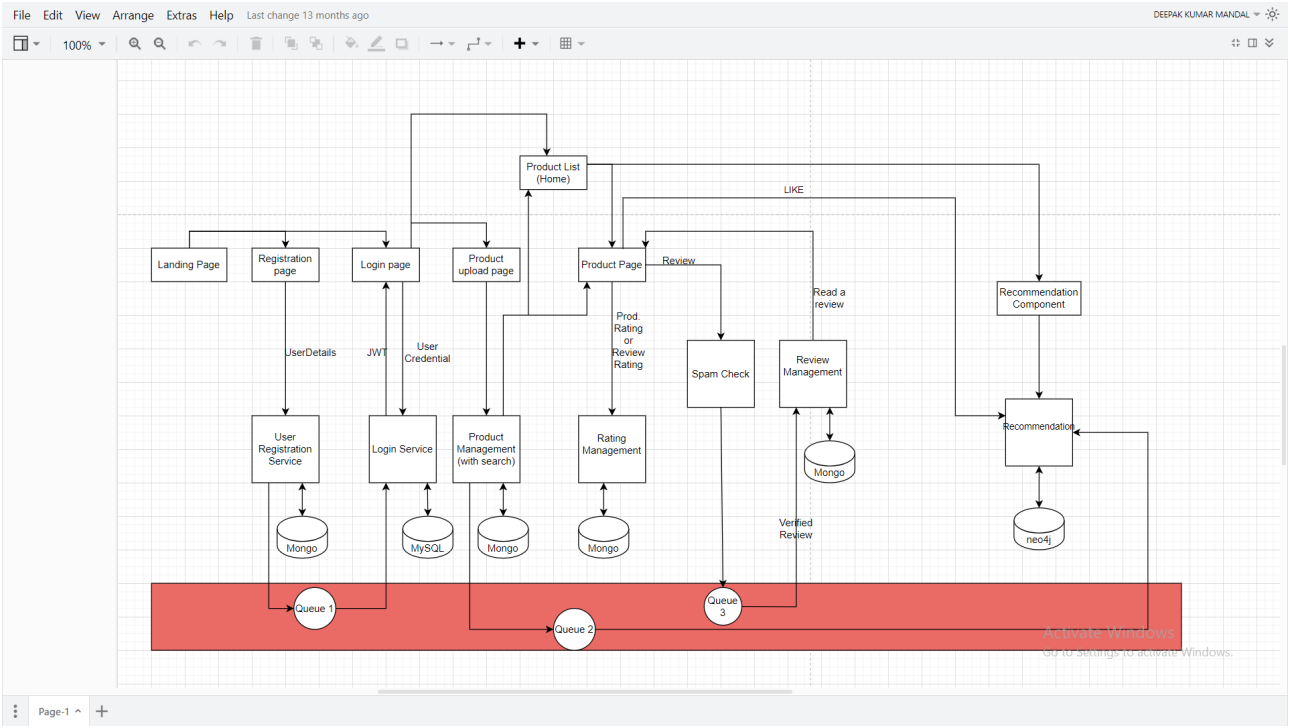
Domain Study:-

eCommerce => Reviews and ratings

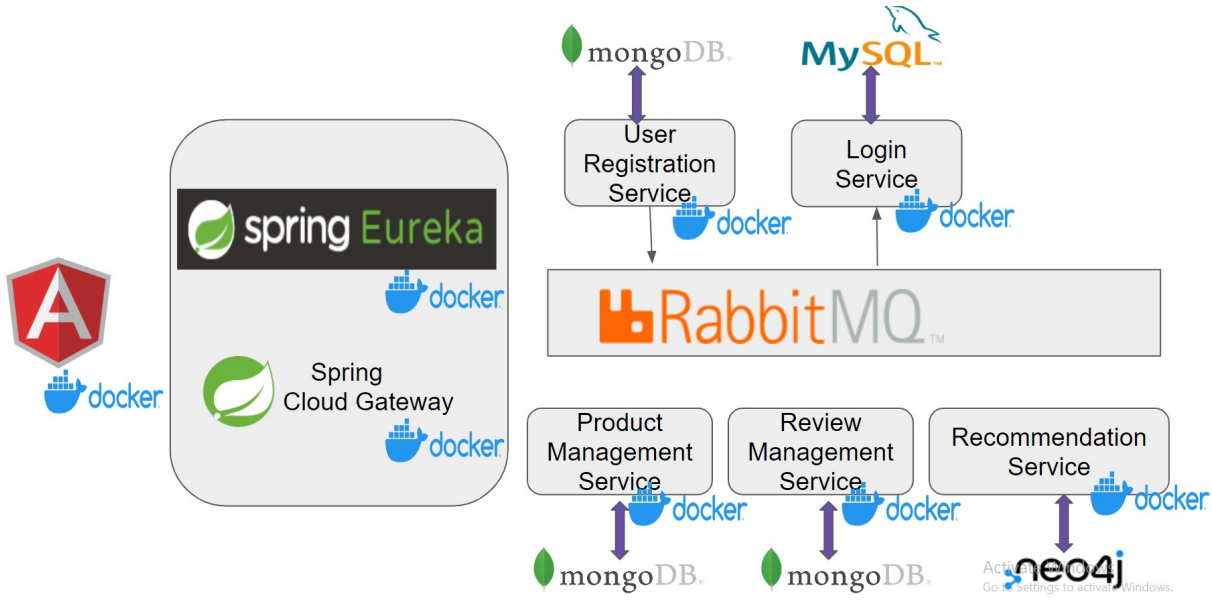
Identify the Stakeholder of the Product (Persona):-

- 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



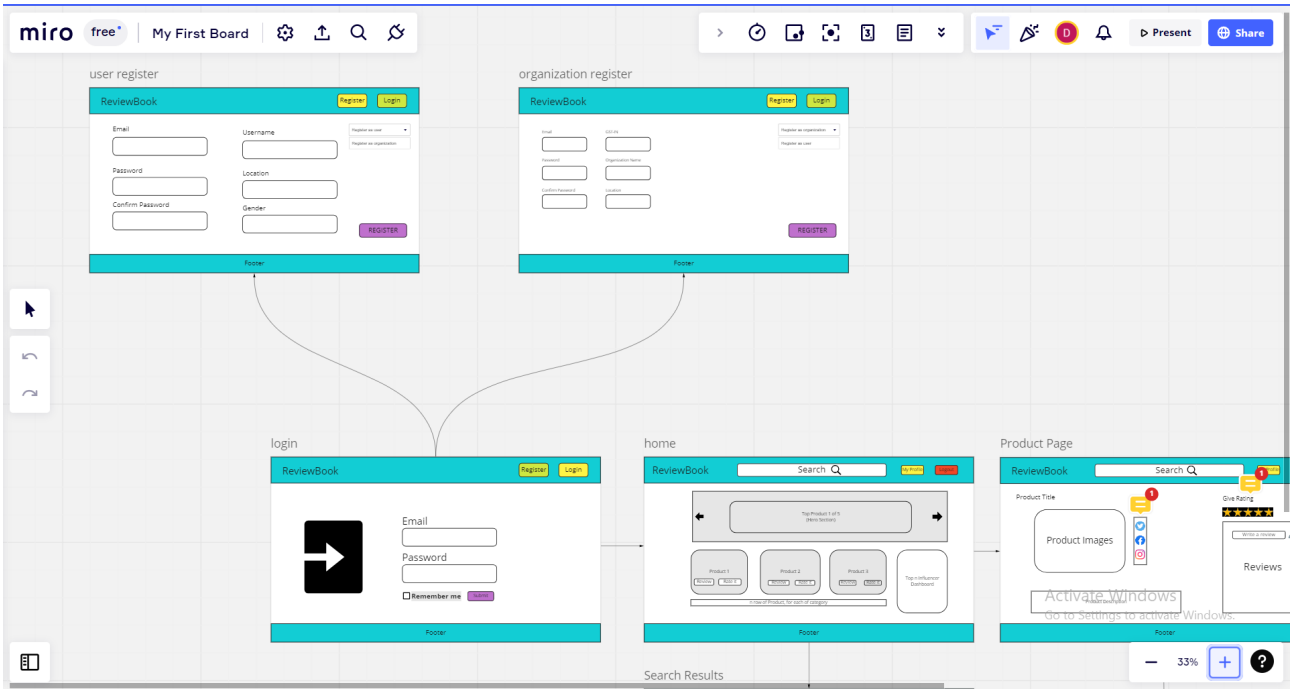
Architecture of ReviewBook

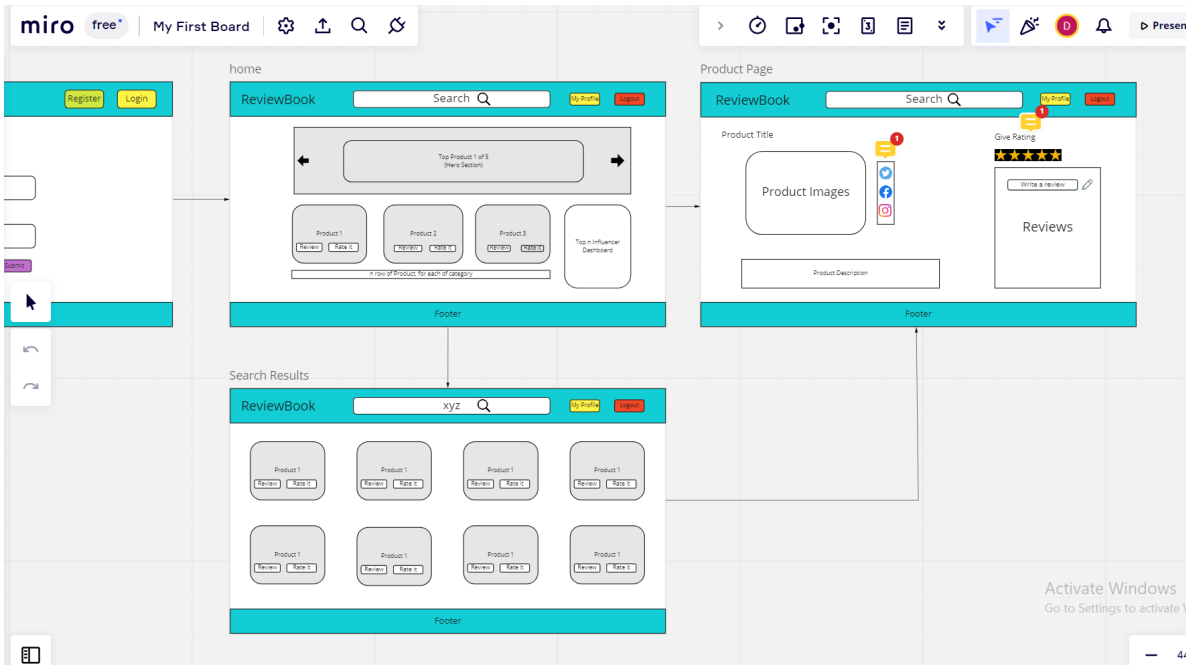


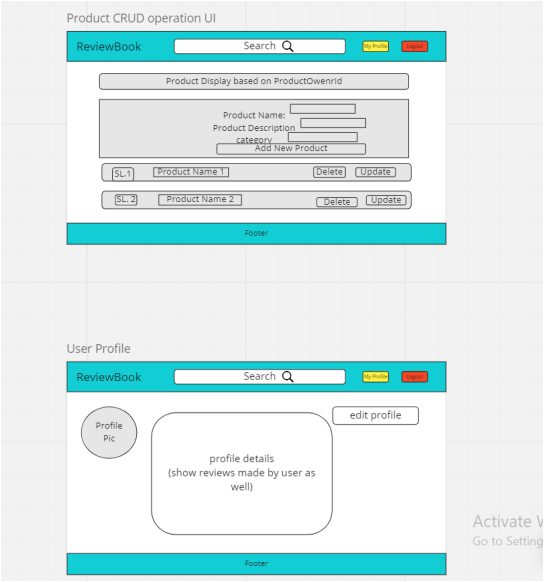
User Story or High-level Features

- 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





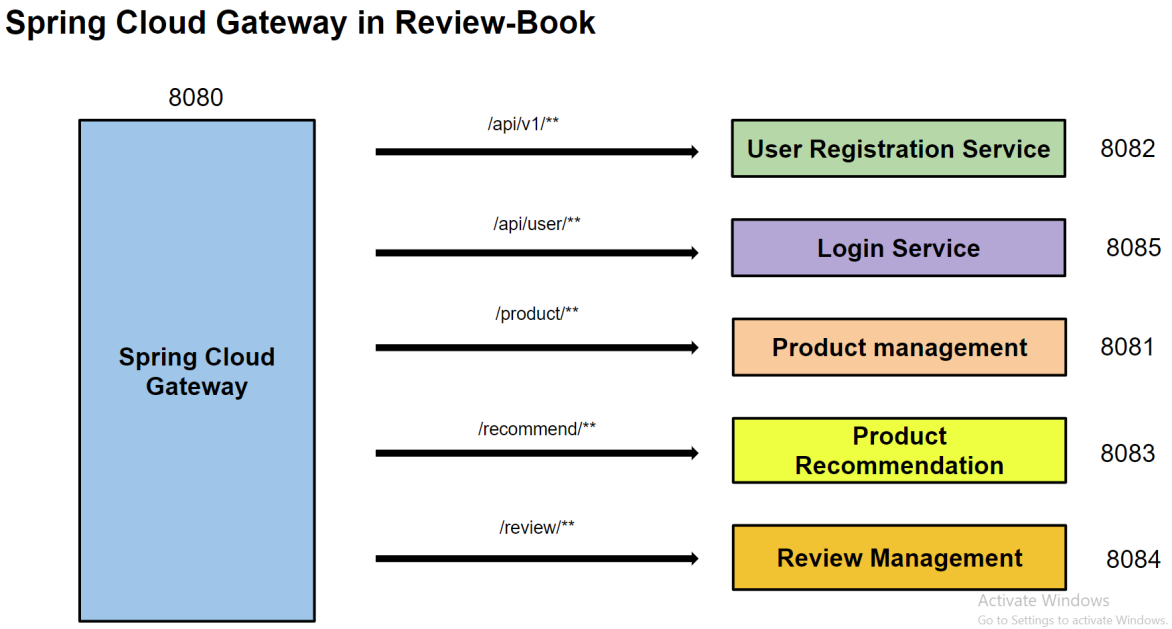


Spring boot Application - Microservice Architecture

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



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[]
}

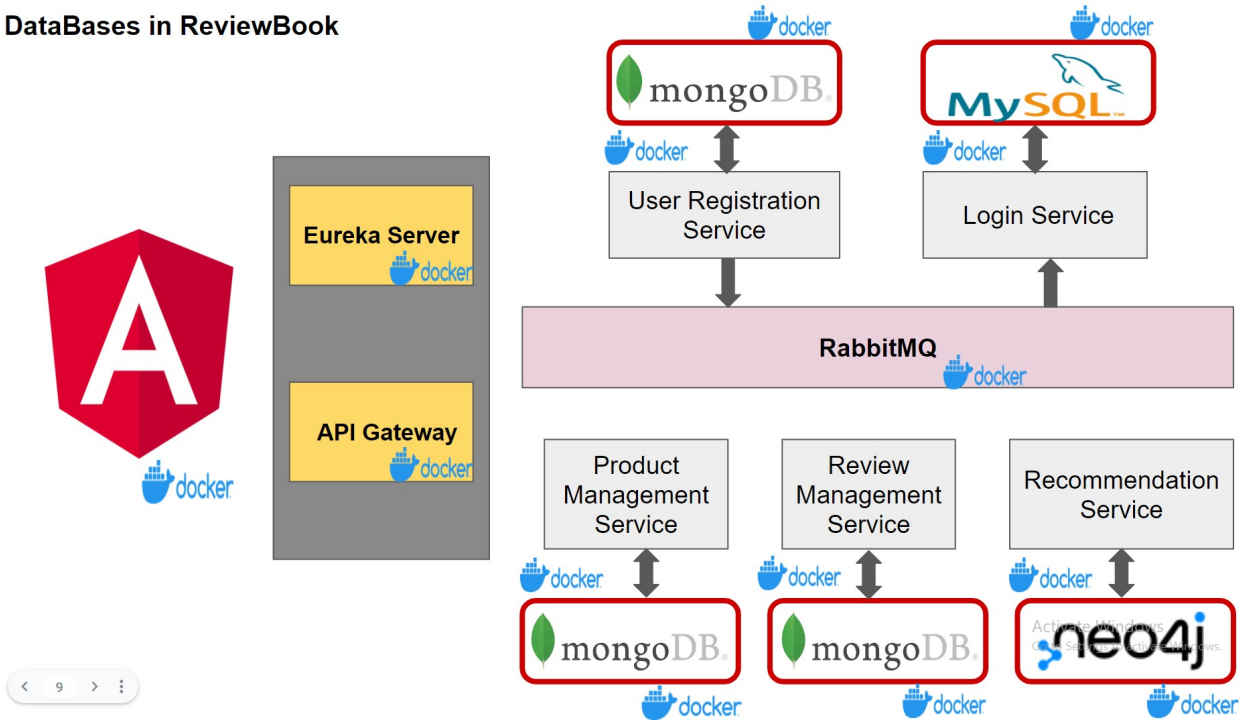
- Review

```
{
"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,
}
```

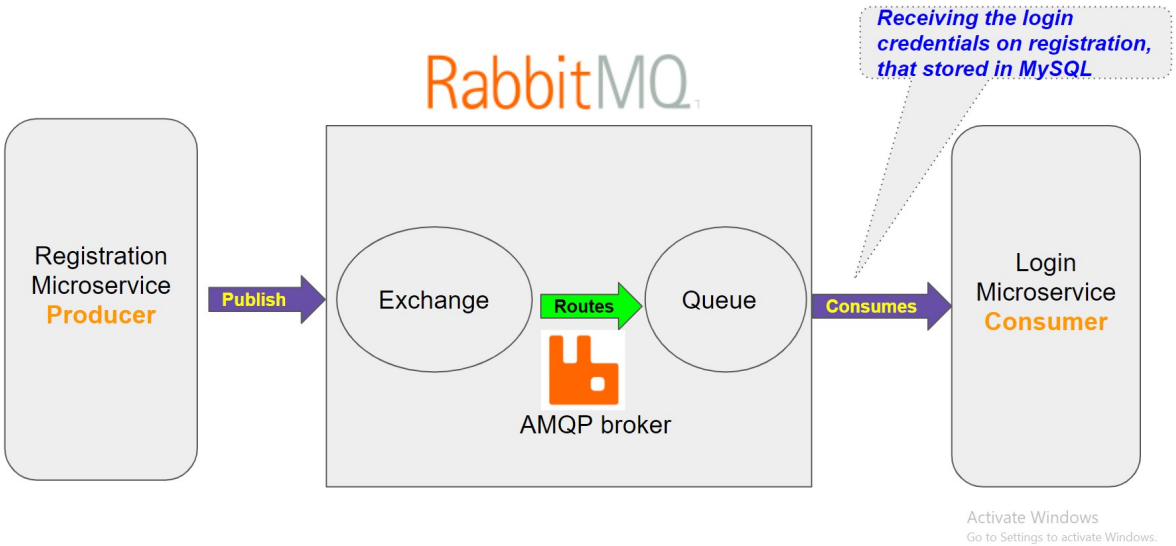
- Rating

{
“userId”:
“productId:
“productRating”,
“InfluencerSoreOrRating”
}

Databases Implementation



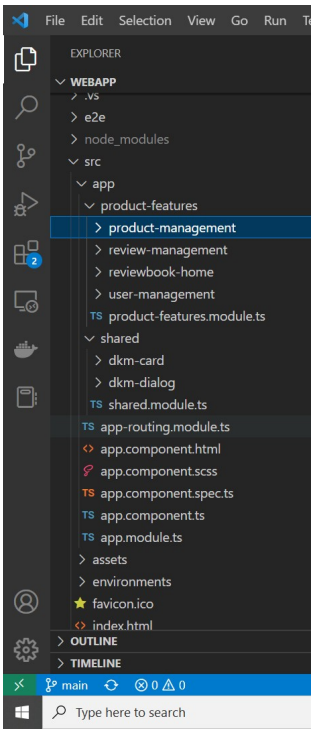
RabbitMq of ReviewBook

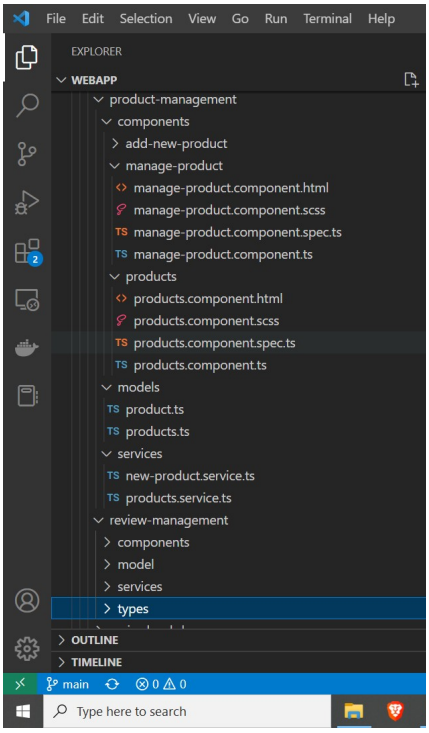


Angular application Architecture

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



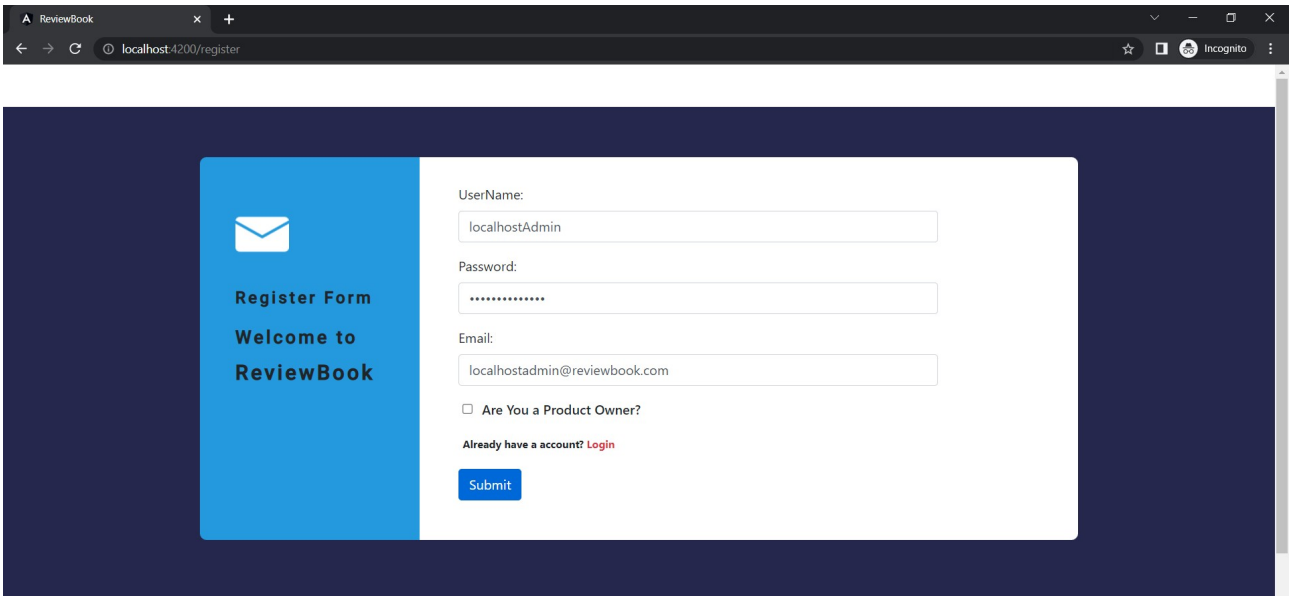


Screenshot of live pages

Landing Page

Registration Page

registration as a normal user



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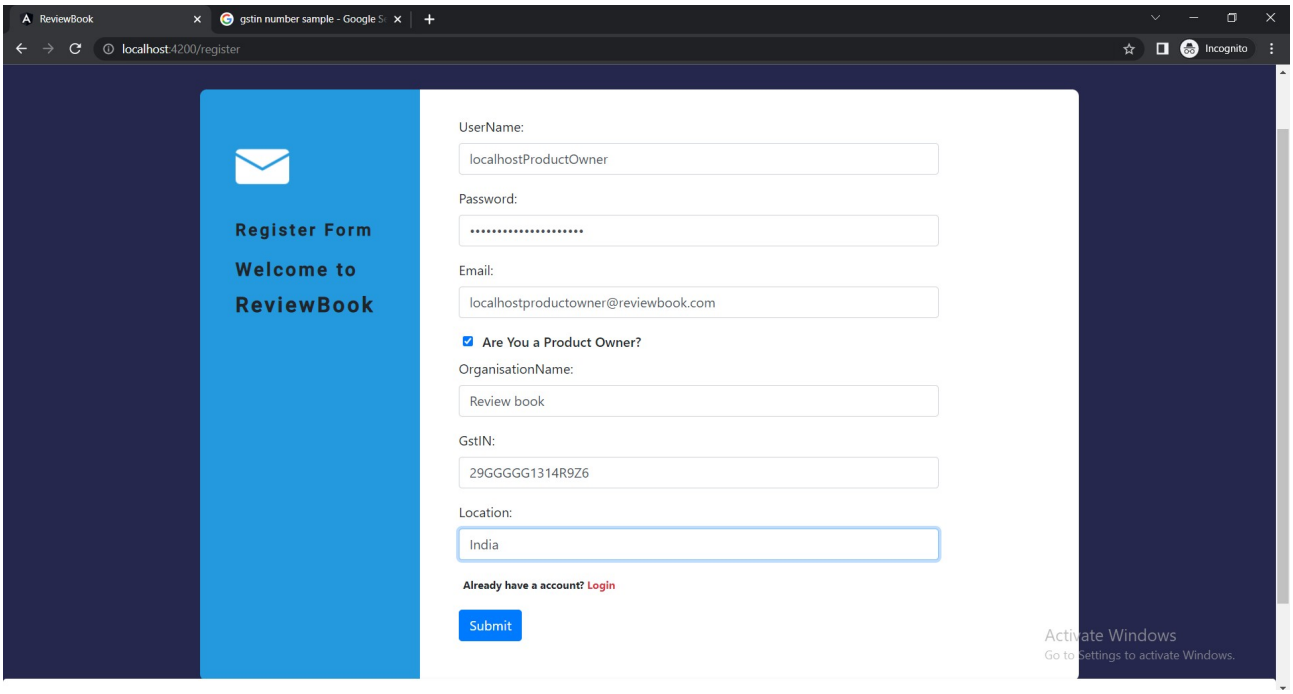
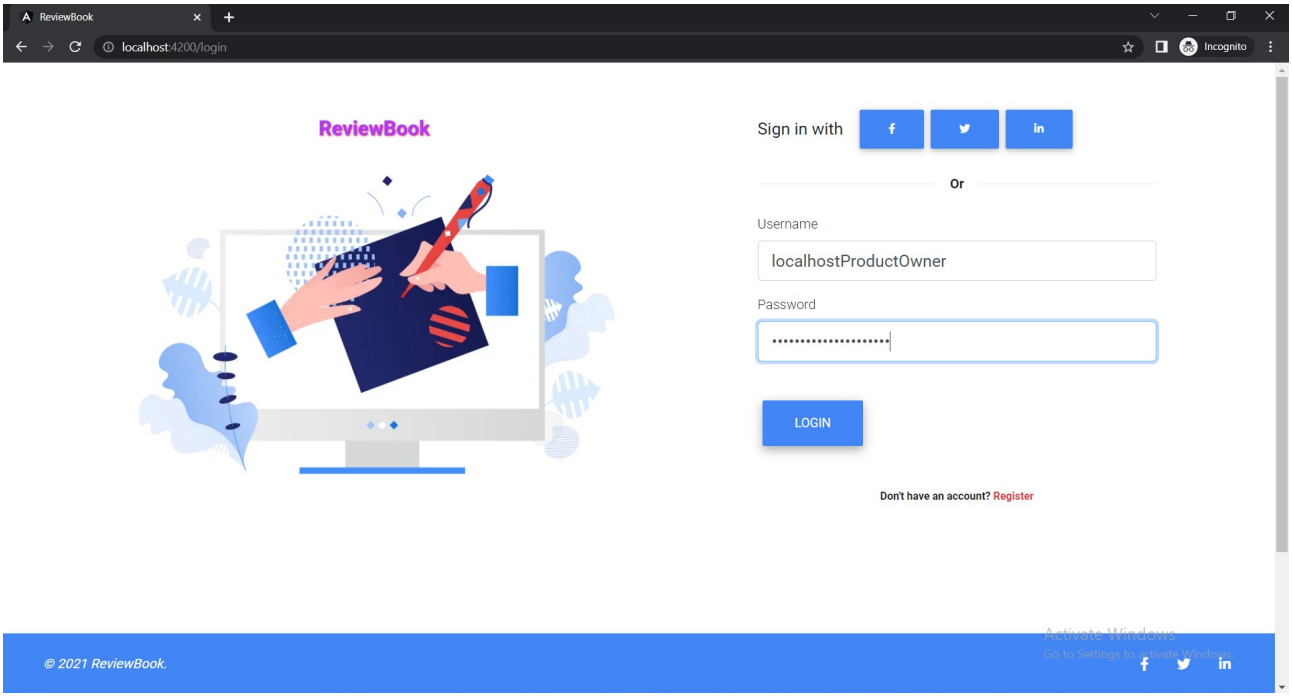
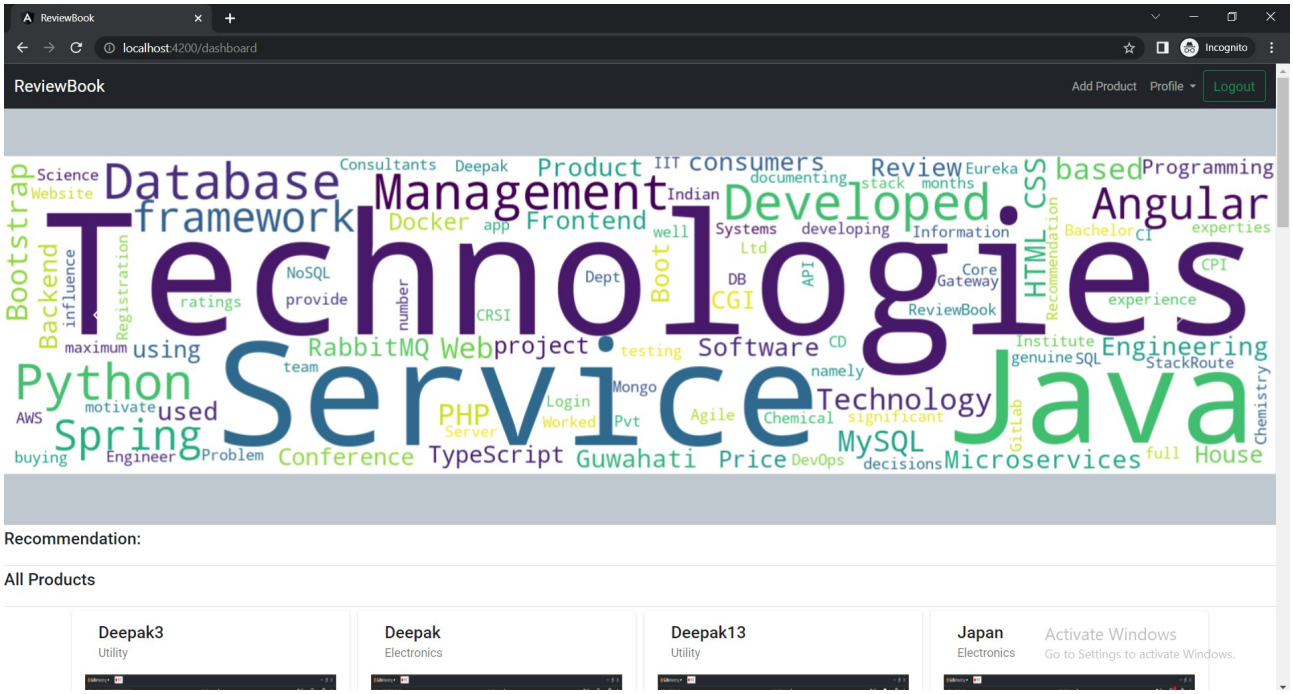
Registration as a product owner



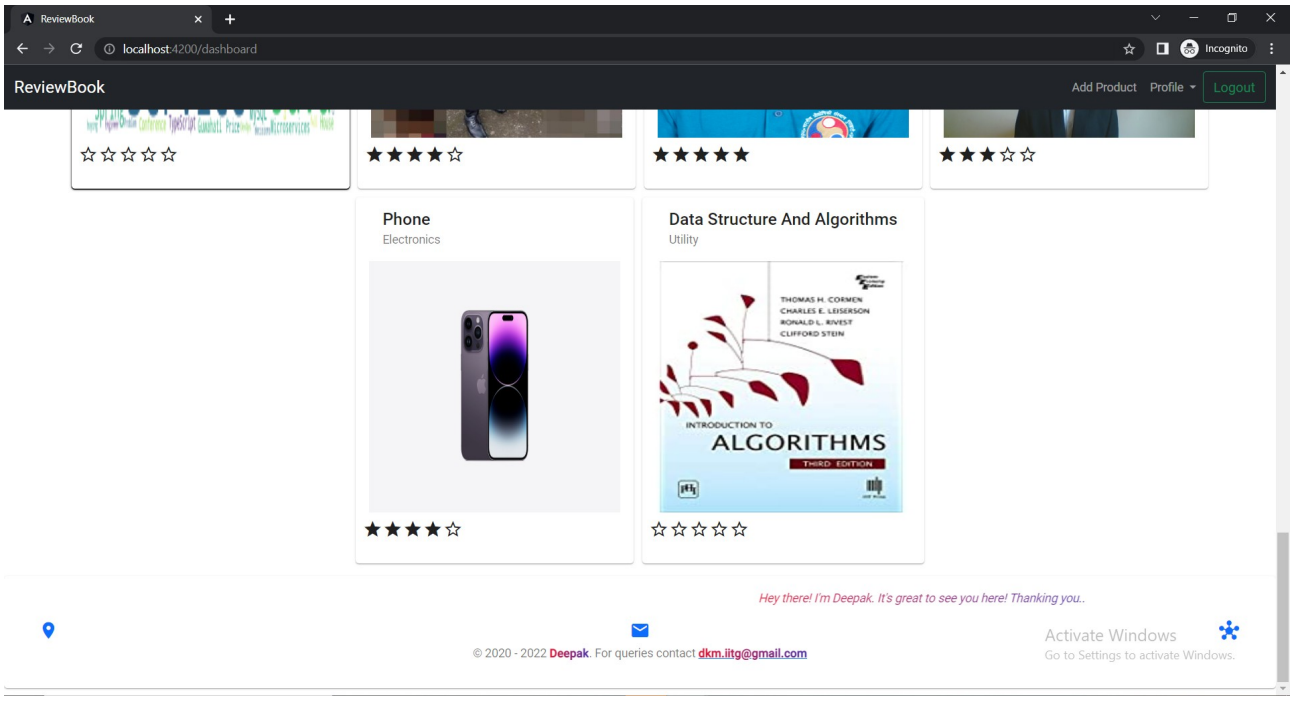
Login page



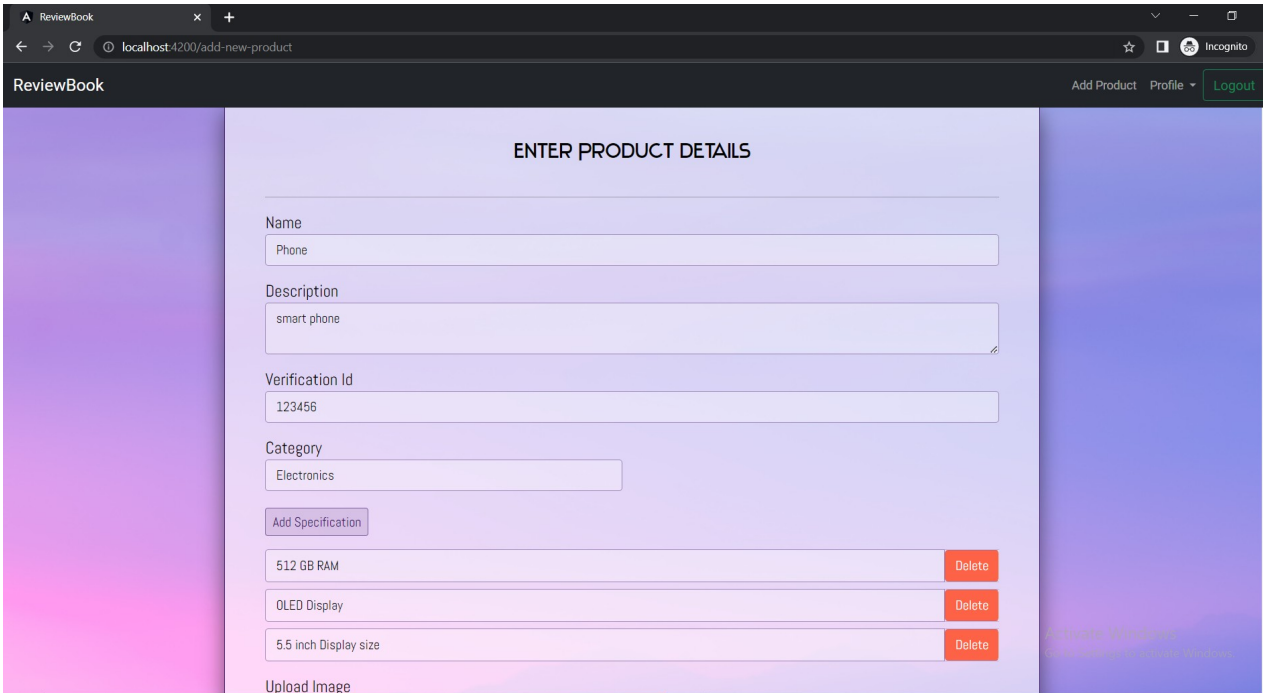
Home Page

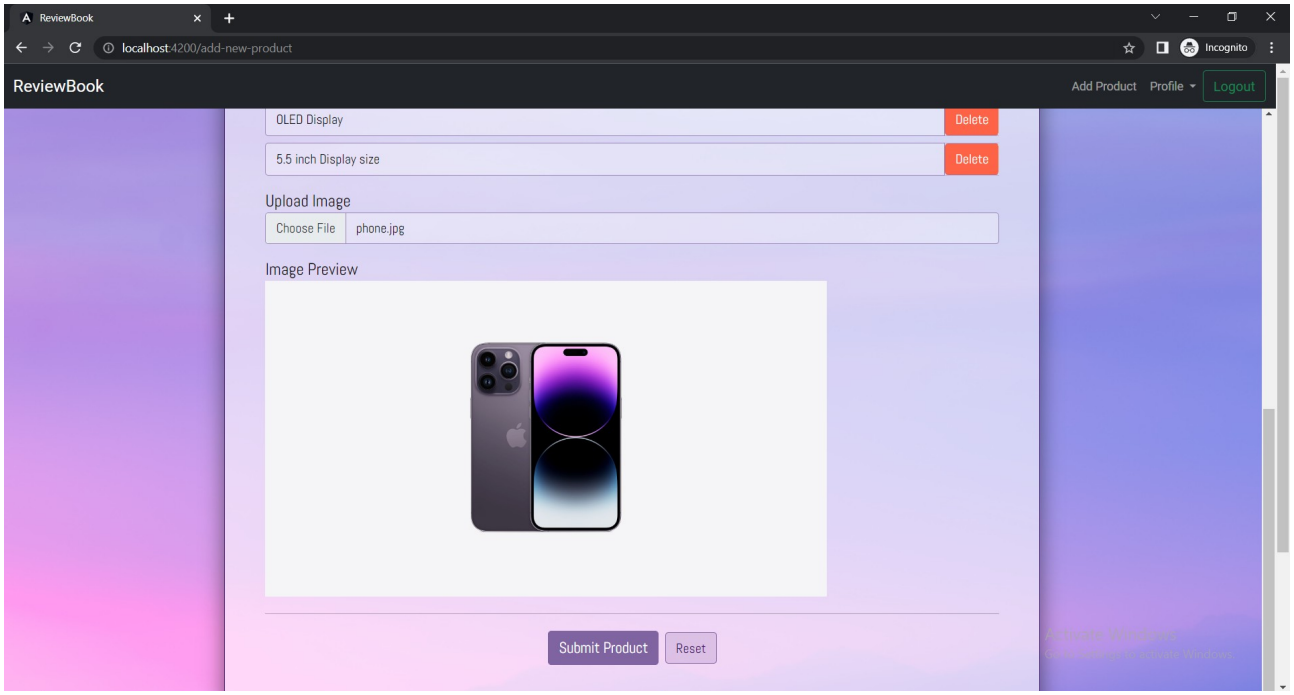


footer

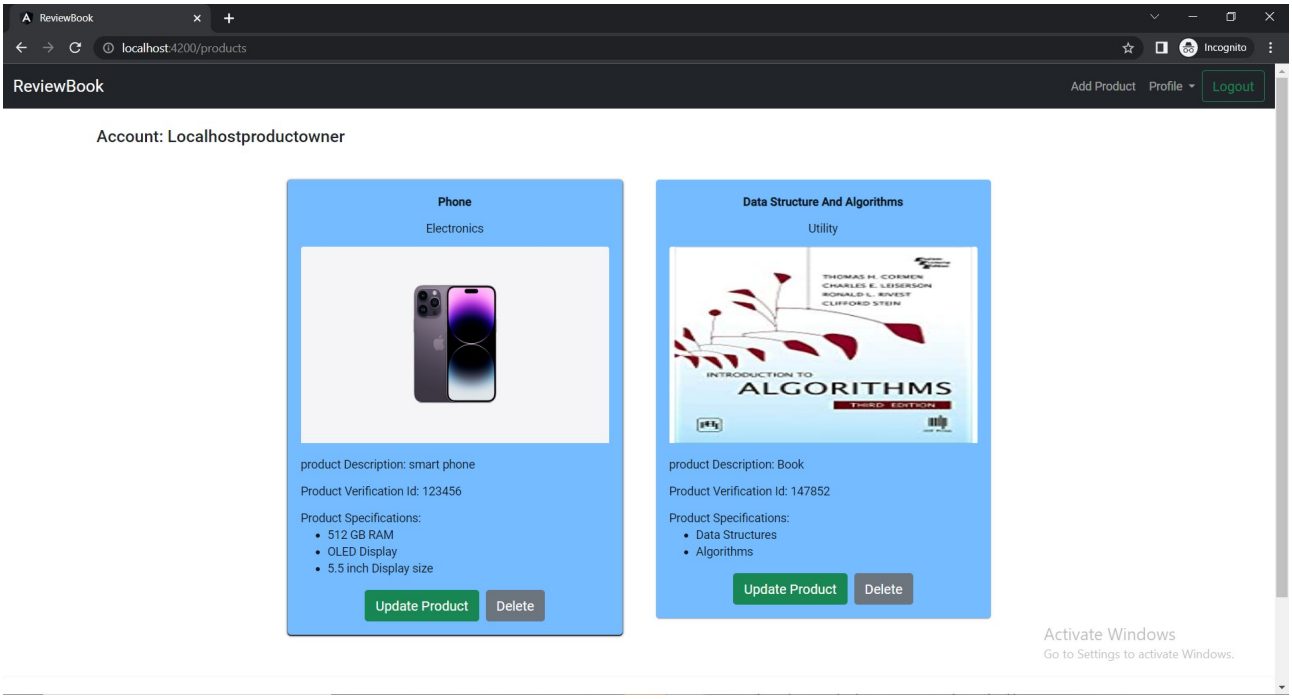


Product (add new product page)

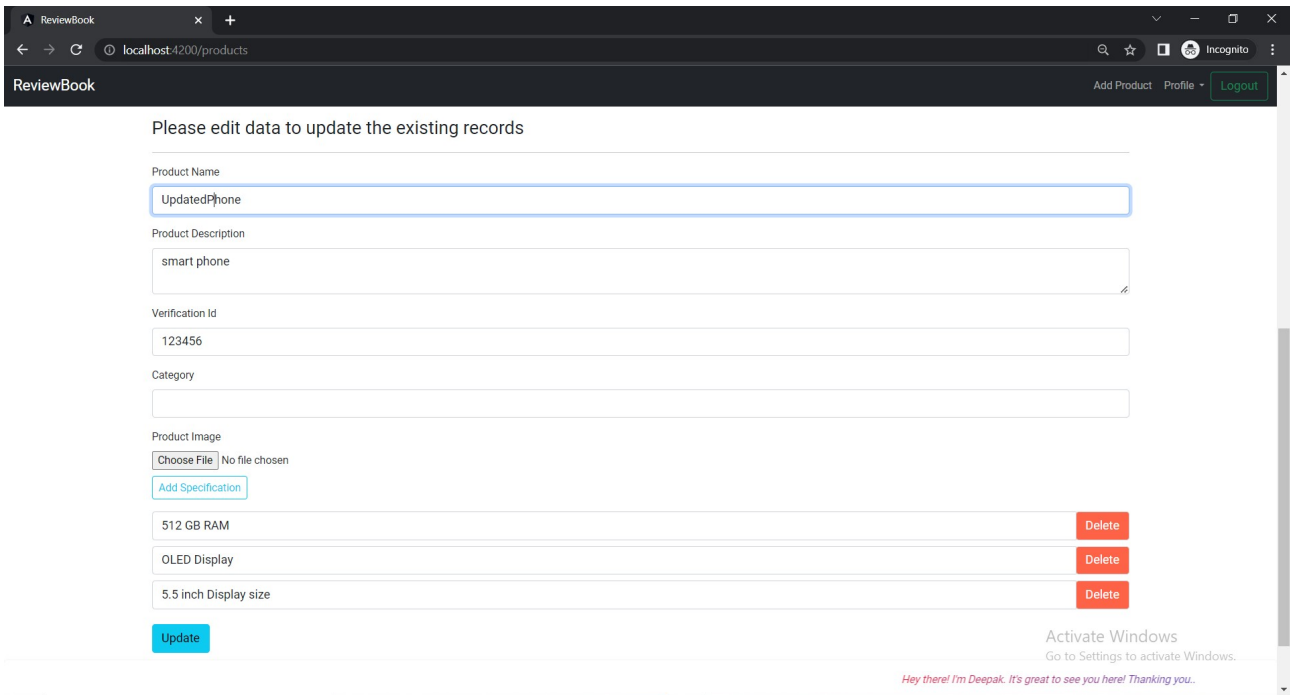




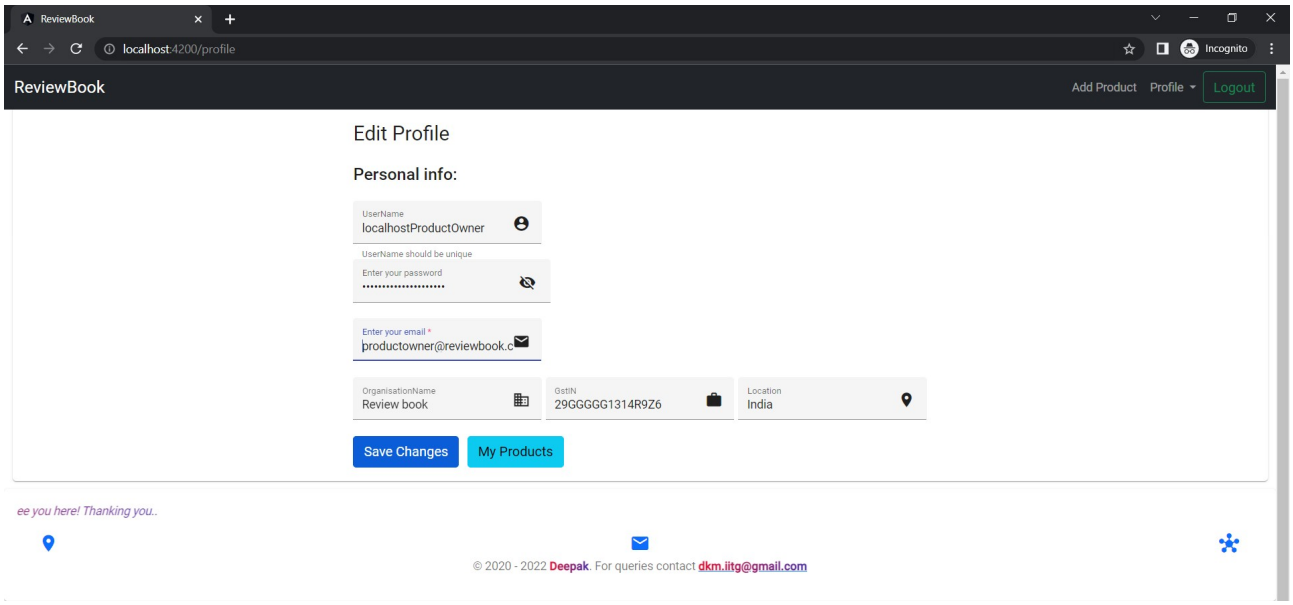
My Products



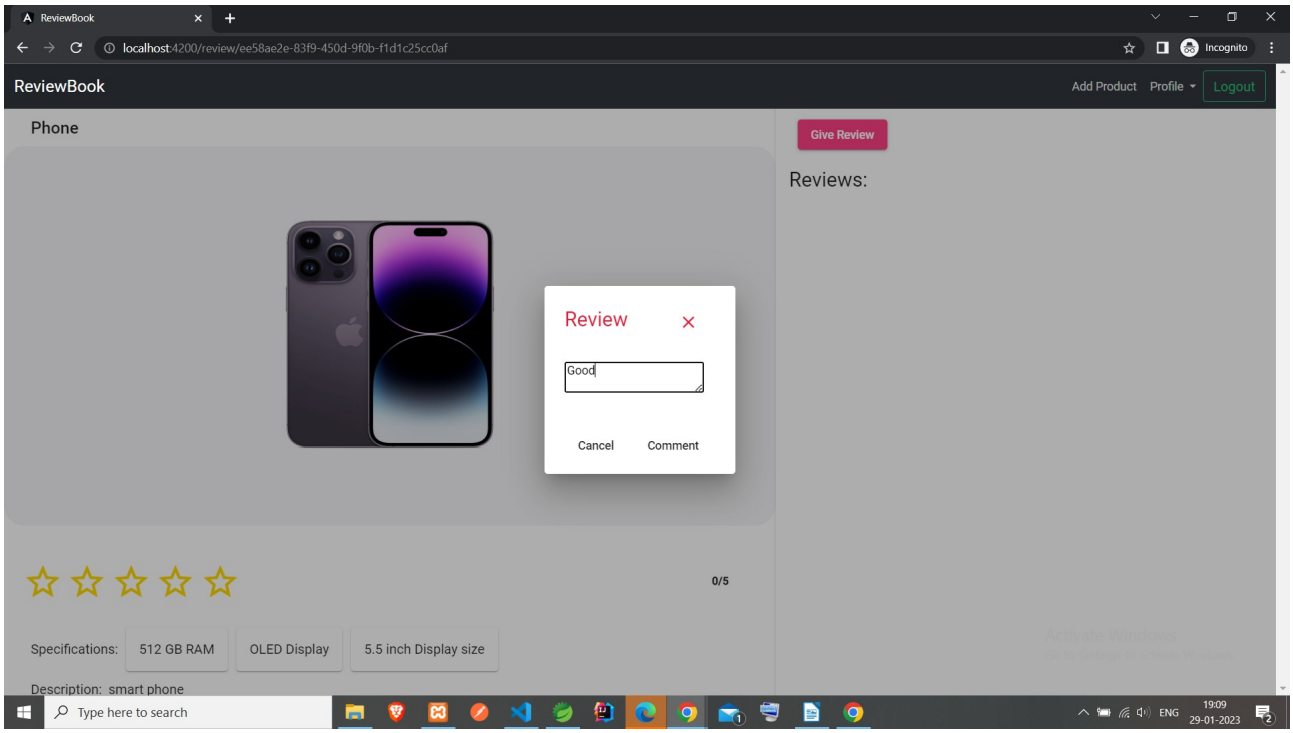
Update Product



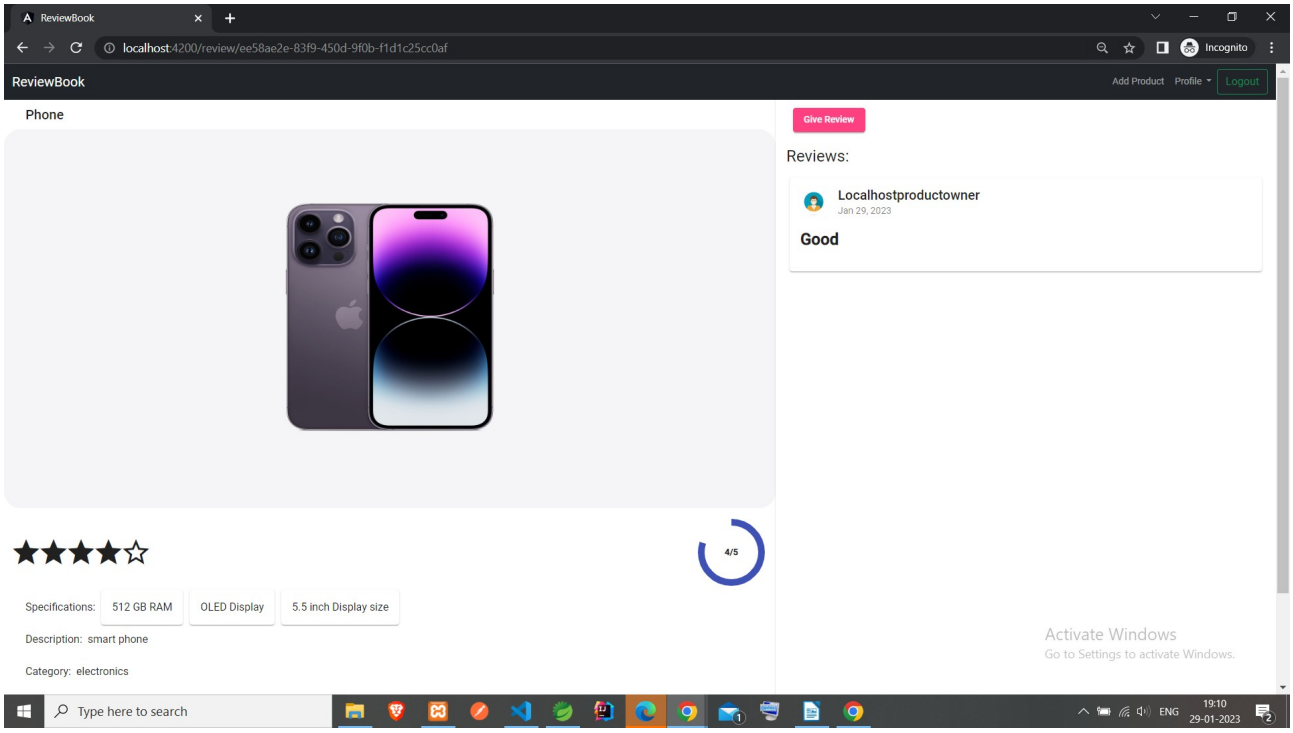
Profile update page



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

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