

EXIT TEST

PRODUCT COMMUNITY WEBSITE

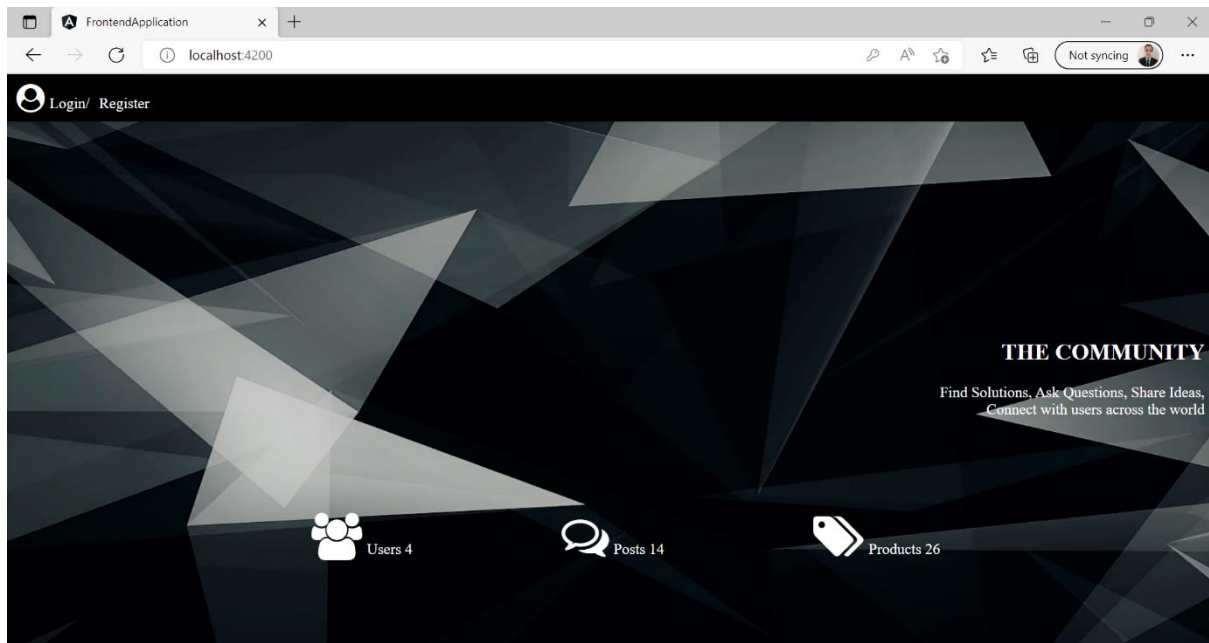
- ❖ This is a product community website where a customer can visit, register themselves, browse products, raise for review, post reviews.
- ❖ 2 applications are to be developed:
 1. Frontend Application
 2. Backend Application

Frontend Application:

- ❖ Tech Stack:
 1. Angular version 13.3.6.
 2. SASS[**Bonus Point**]
 3. Run "ng serve -o" on terminal to start the application on "http://localhost:4200/"

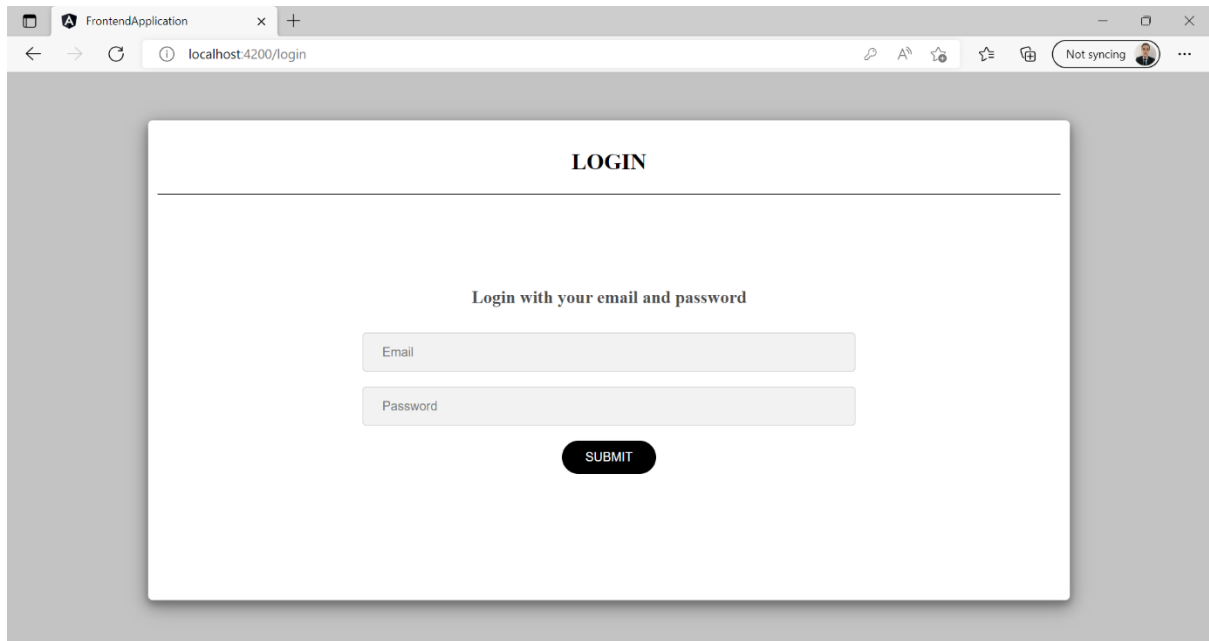
Home Page:

1. Home page has links for Registration and Login.
2. It shows stats such as number of registered users, number of products, number of reviews.

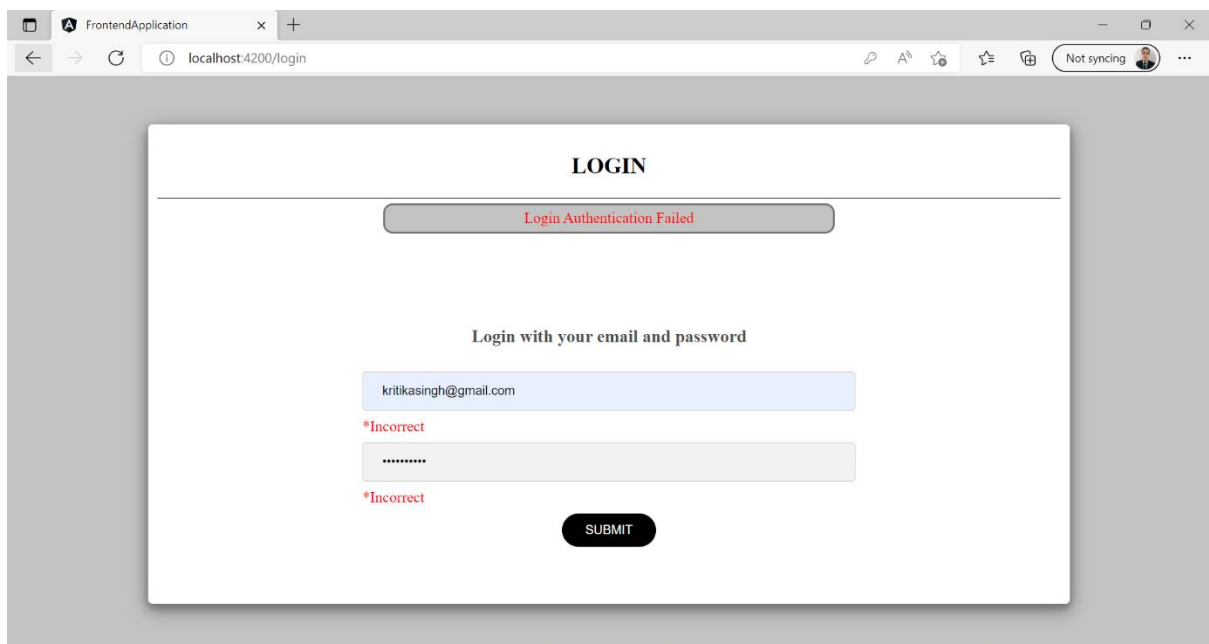


❖ Login Page:

1. The application has login page.

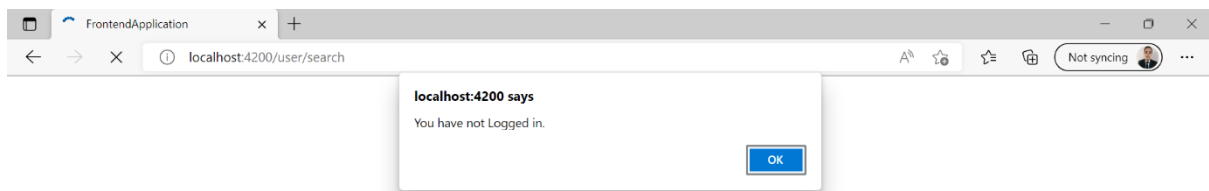


2. Proper error messages should be handled in case of invalid authentication.



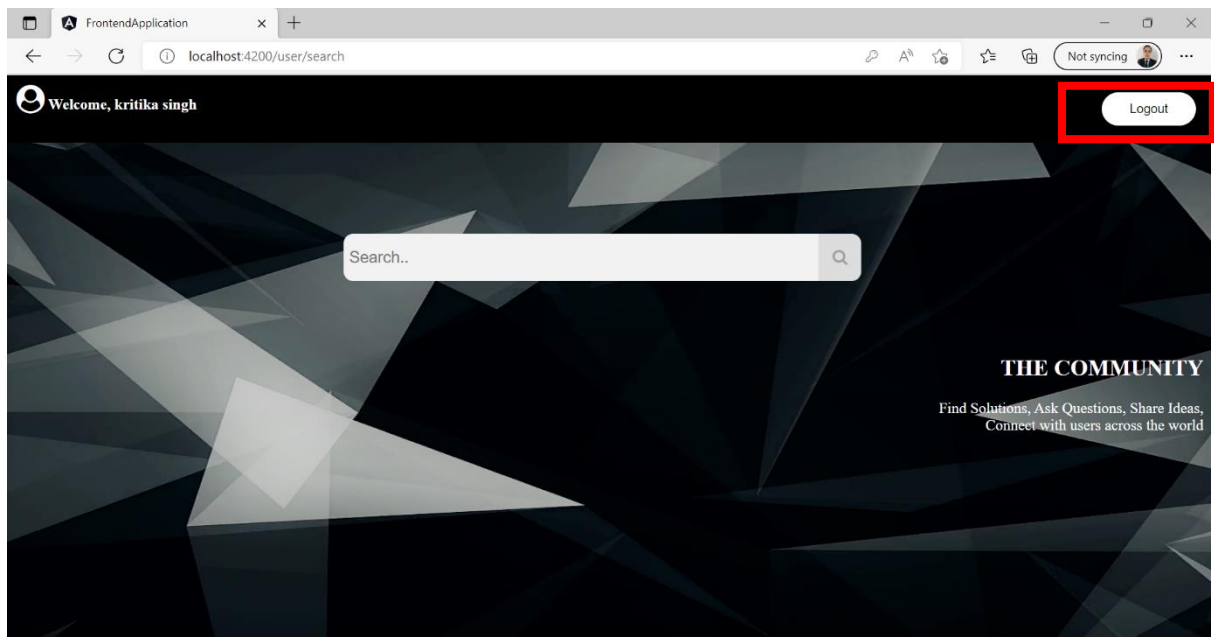
3. If without login user try to use this application, then after alert message user will automatically redirect to login page.

4. This application is Guarded.



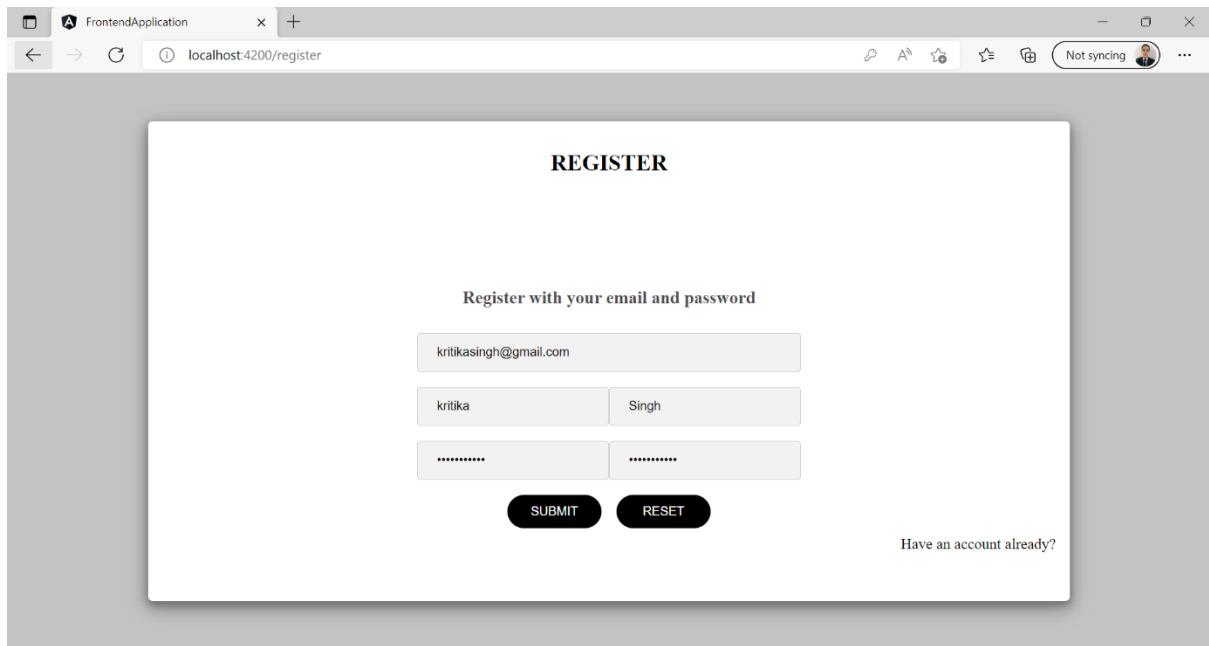
Logout:

1. User should be provided with an option to logout.



Registration Page:

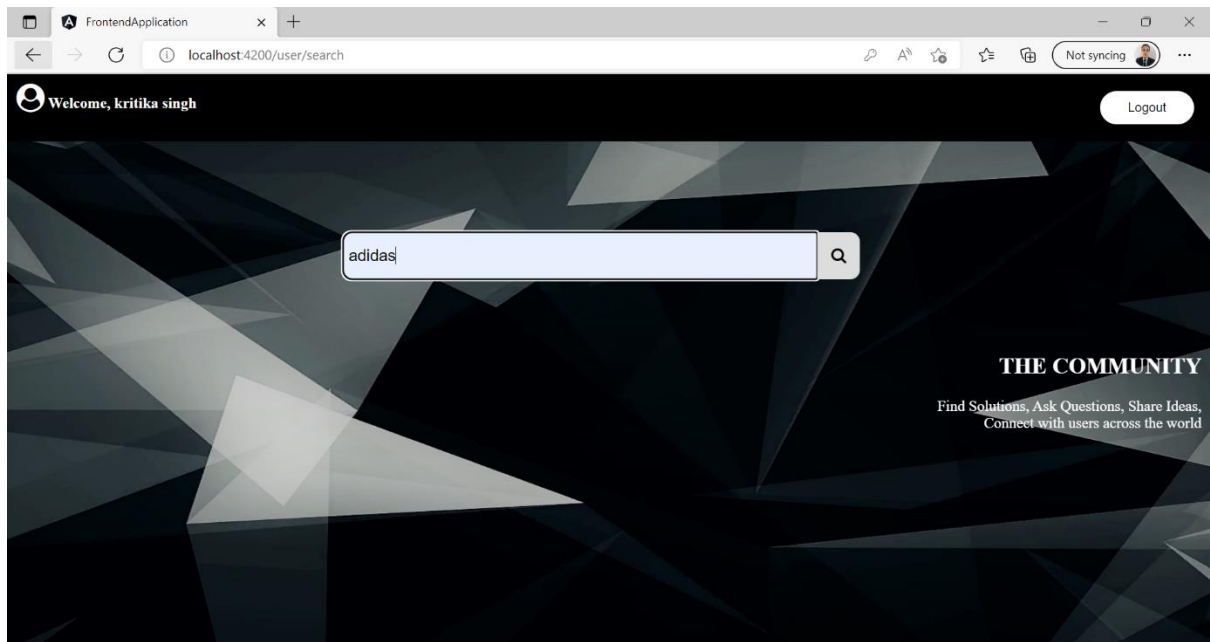
1. The application has a registration page.
2. User should be able to register.
3. Validation for email address, password policy (min length 8), mandatory fields such as name is performed.



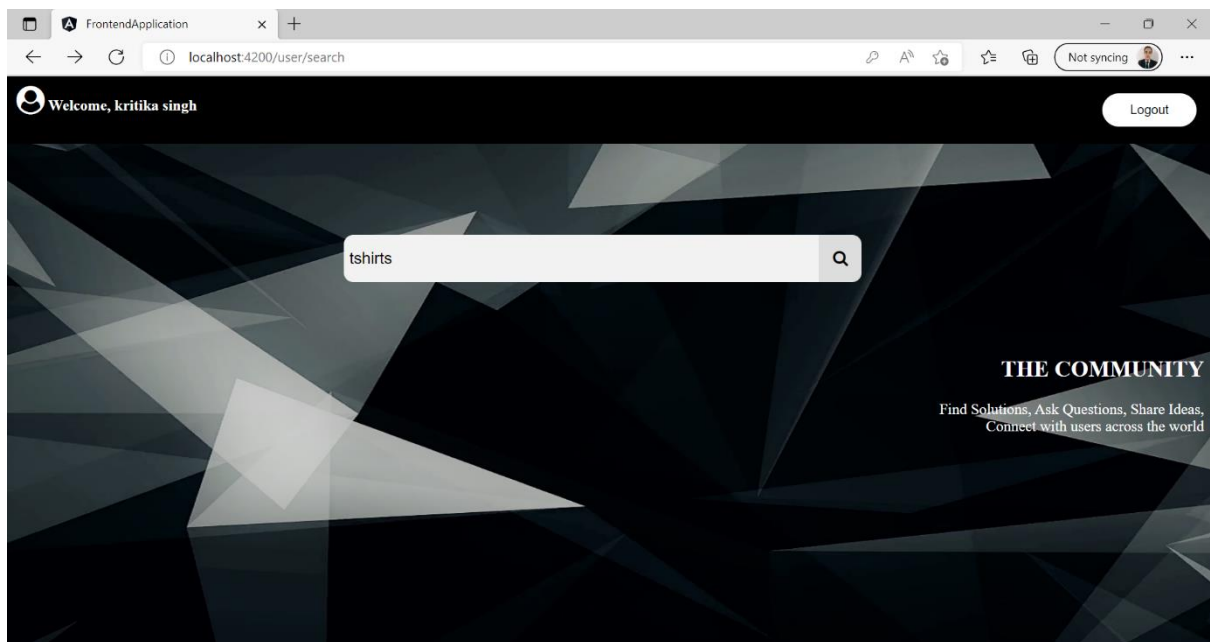
Product Search Page:

1. Search screen should search the input text against all input parameters specified in as name, code, brand.

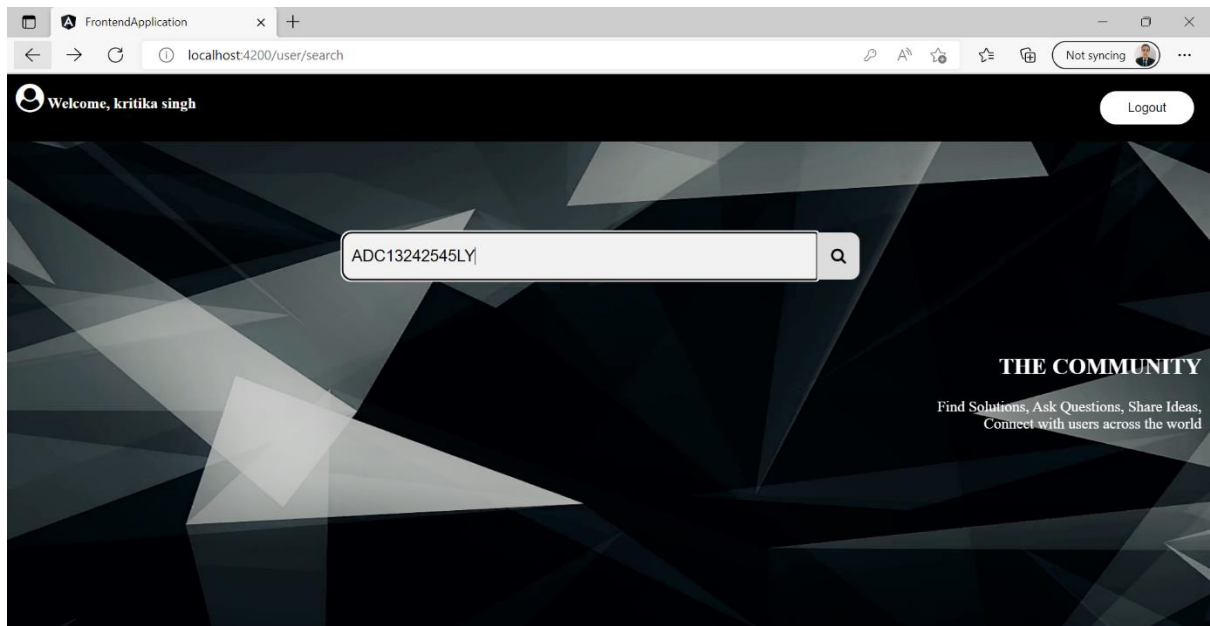
Search by Brand:



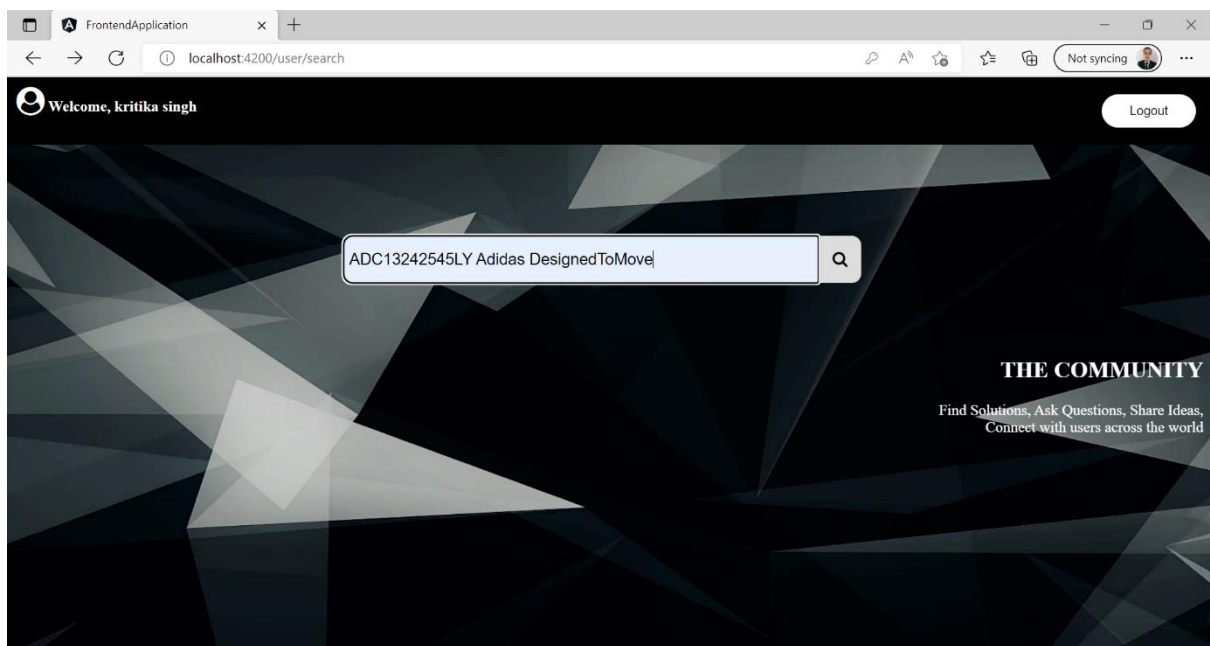
Search by Name:



Search By Code:



Search By all Parameters:



Results Page:

1. Once Search is triggered after specifying the search parameters, It will display the search results using the API from 1st Application.

Filter Products

Ask For Review button

Product Details and Reviews

For posting Review on Product

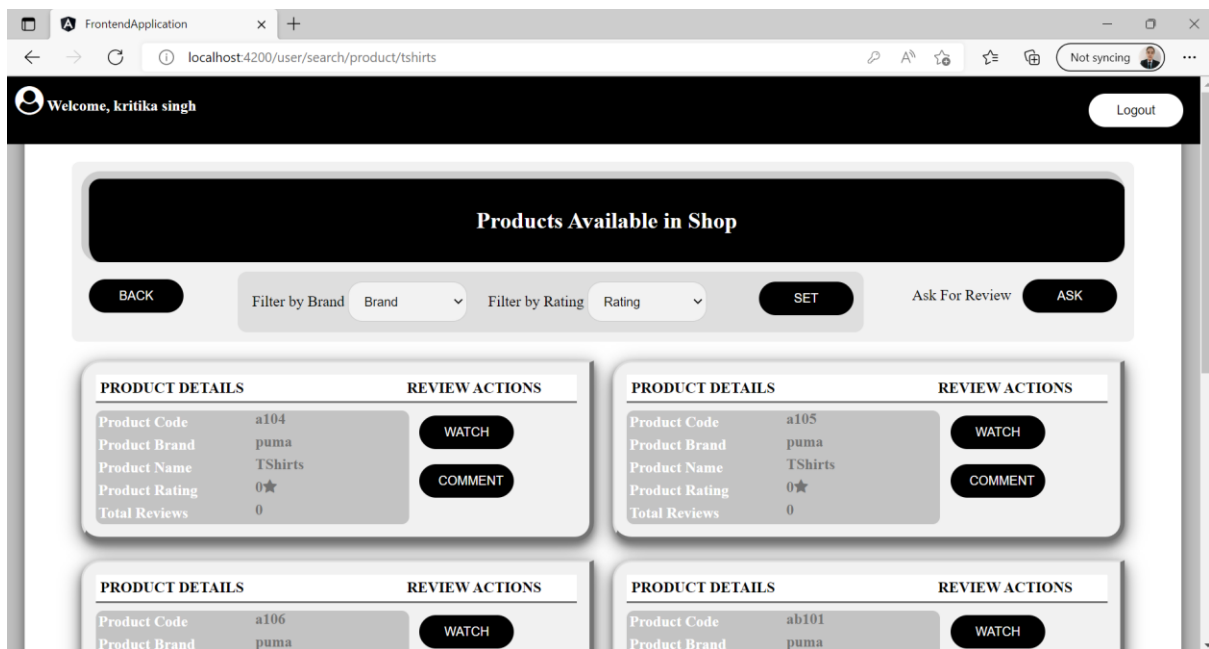
*Search Result by Brand:

Filter by Brand: Brand

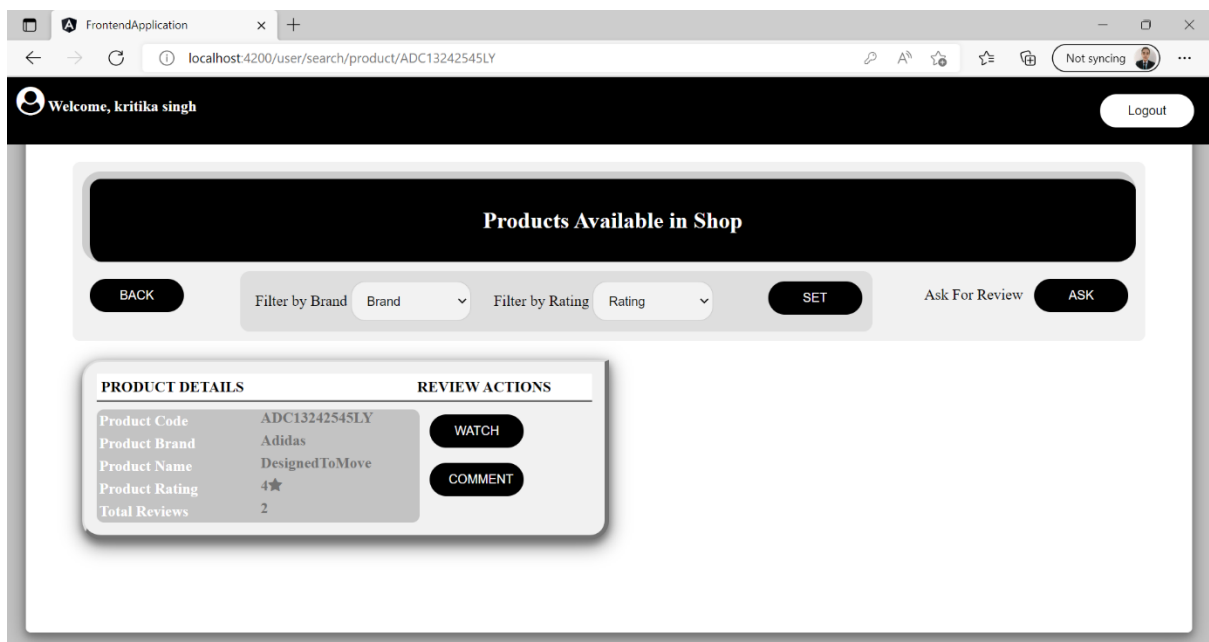
Product Details and Review Actions:

Product Code	Product Brand	Product Name	Product Rating	Total Reviews	WATCH	COMMENT
ab102	Nike	Shirts	3.25★	2	WATCH	COMMENT
ab103	nike	TShirts	0★	0	WATCH	COMMENT
NICB7952103MP	Nike				WATCH	
NICJ0921092MB	Nike				WATCH	
ab102	adidas	TShirts	4★	1	WATCH	COMMENT
AD1234QWE	adidas	ReadyToGo	0★	0	WATCH	COMMENT
ADC13242545LY	Adidas				WATCH	
ADC14536258MP	Adidas				WATCH	

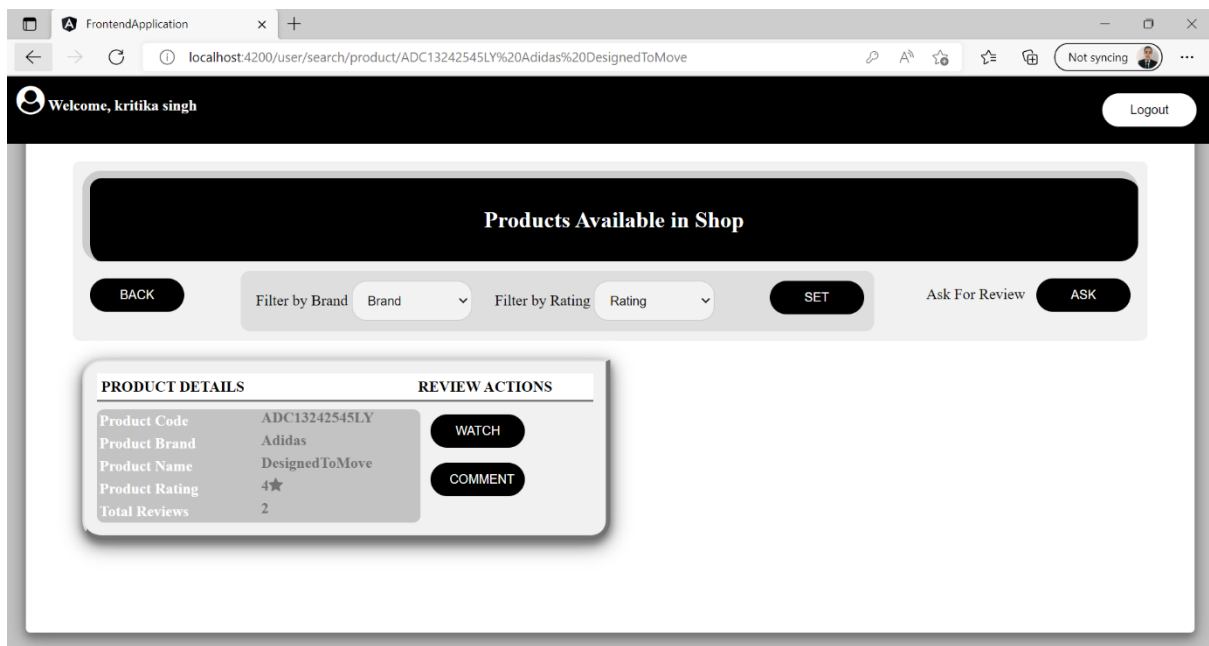
*Search Result By Name:



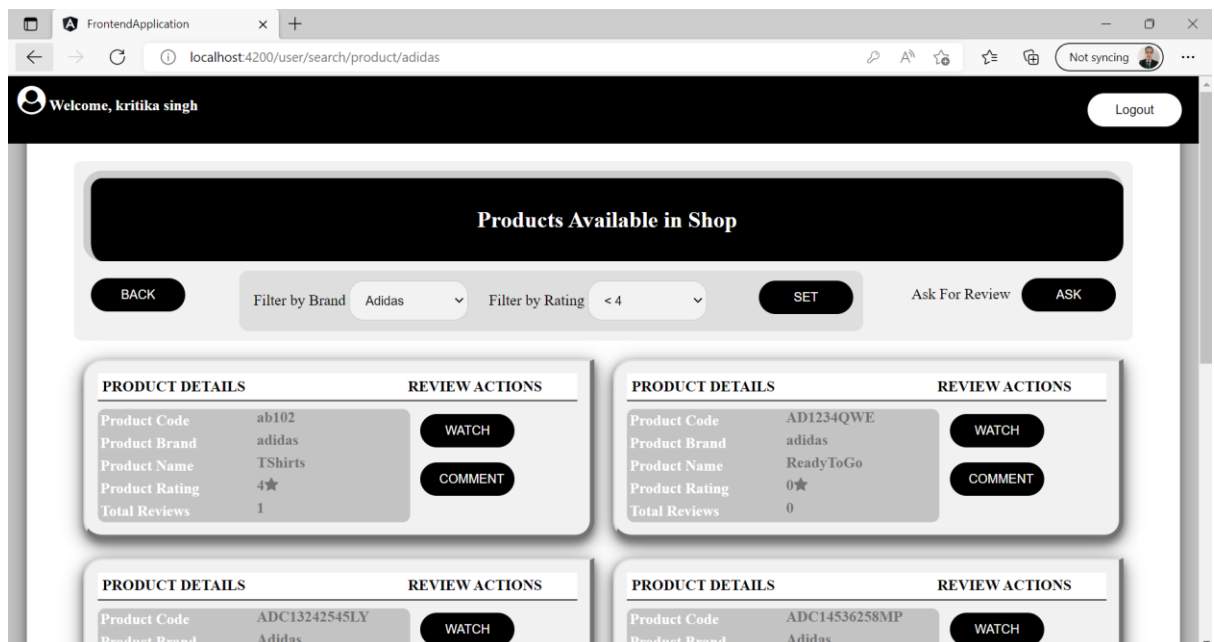
*Search Result by Code:



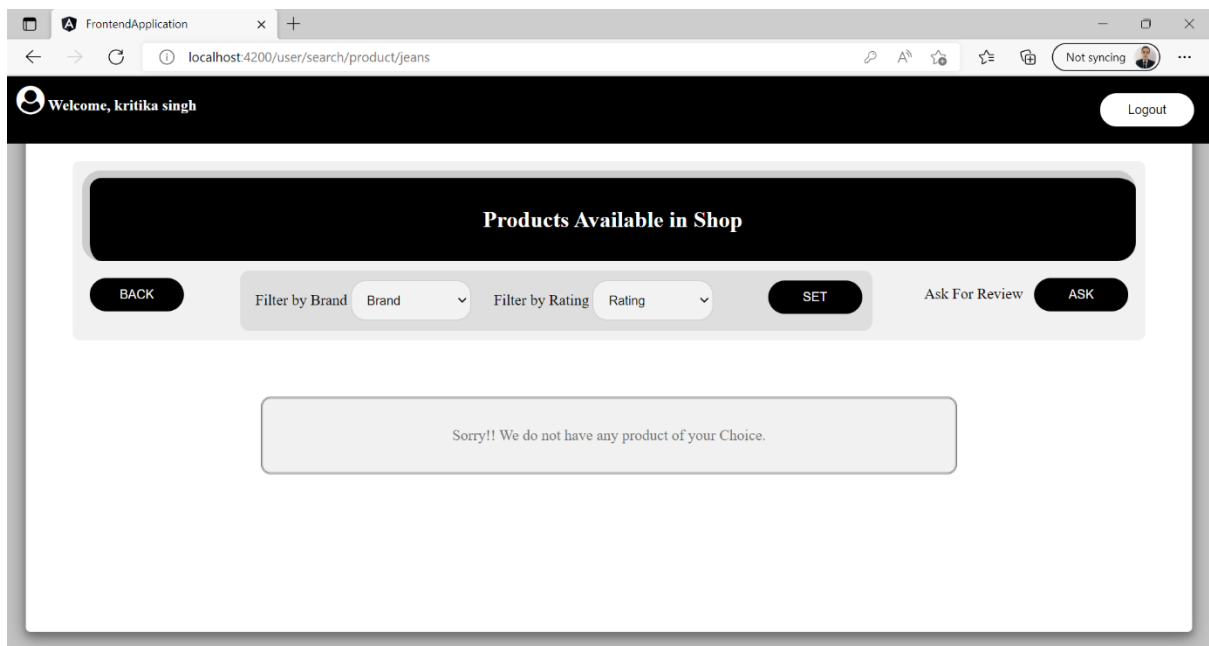
*Search Result By all Parameters:



2. The user should be able to see the products and filter them further by code and brand. User should be able to see all products with average ratings, number of reviews etc.

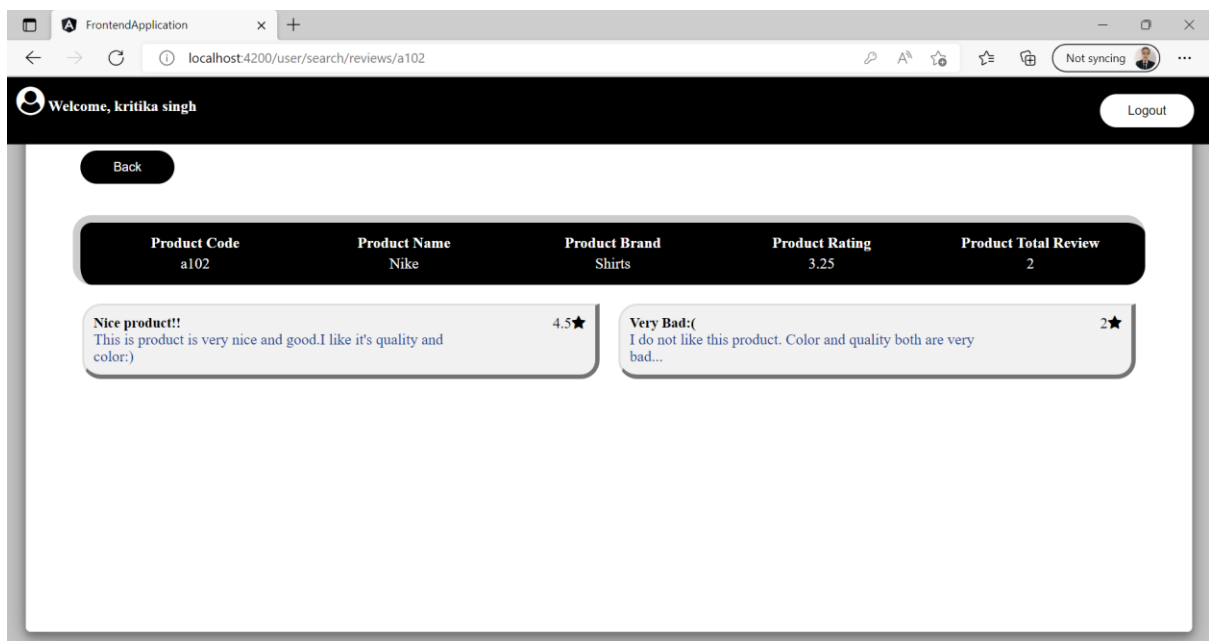


3. If no results are found, then error message displayed on screen.



Product Details:

User can select a product and view all reviews provided for that product.



Post a review:

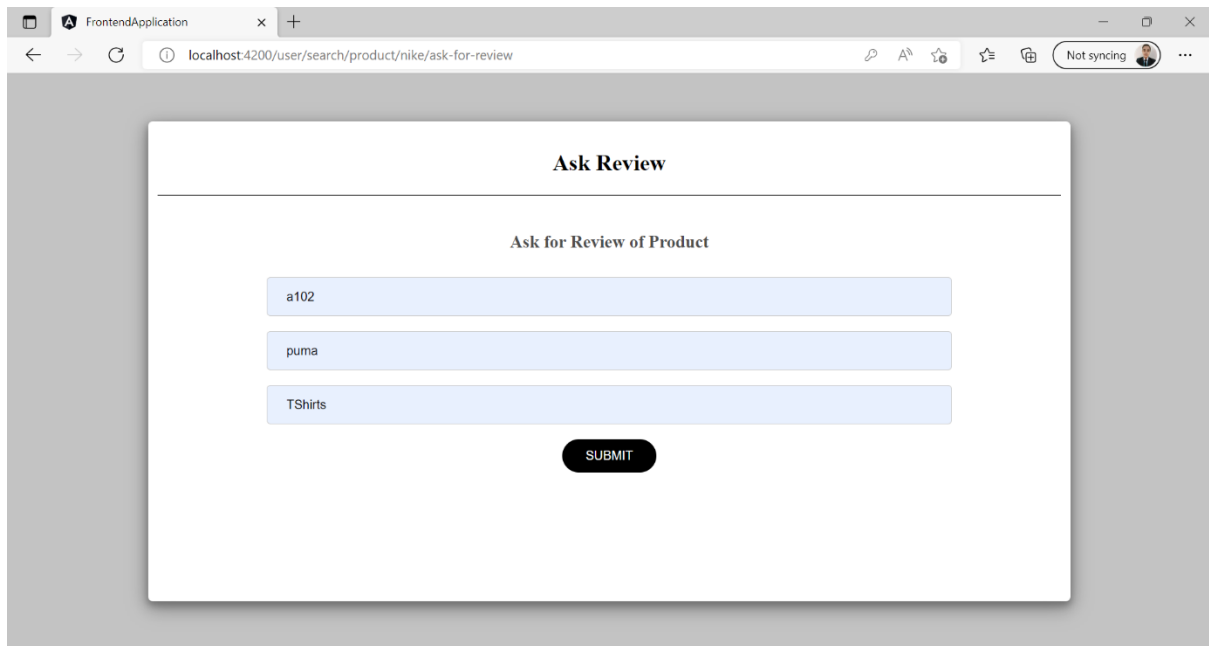
1. User can post a review to a product by submitting a simple form with fields such as:

- i. Ratings (1-5),
- ii. Heading
- iii. Review (min. 20 characters and max 400 characters)

The screenshot shows a web browser window with the address bar displaying 'localhost:4200/user/search/product/nike/post-review/ab103'. The browser tab is labeled 'FrontendApplication'. The main content area features a white modal box titled 'POST REVIEW'. Inside the modal, there is a 'BACK' button in the top left corner. Below it, there are four input fields: a text field containing 'ab103', a rating field containing '3.5', a text field containing 'Nice product!!', and a large text area containing 'This is very nice product:|)|'. At the bottom of the modal is a 'SUBMIT' button.

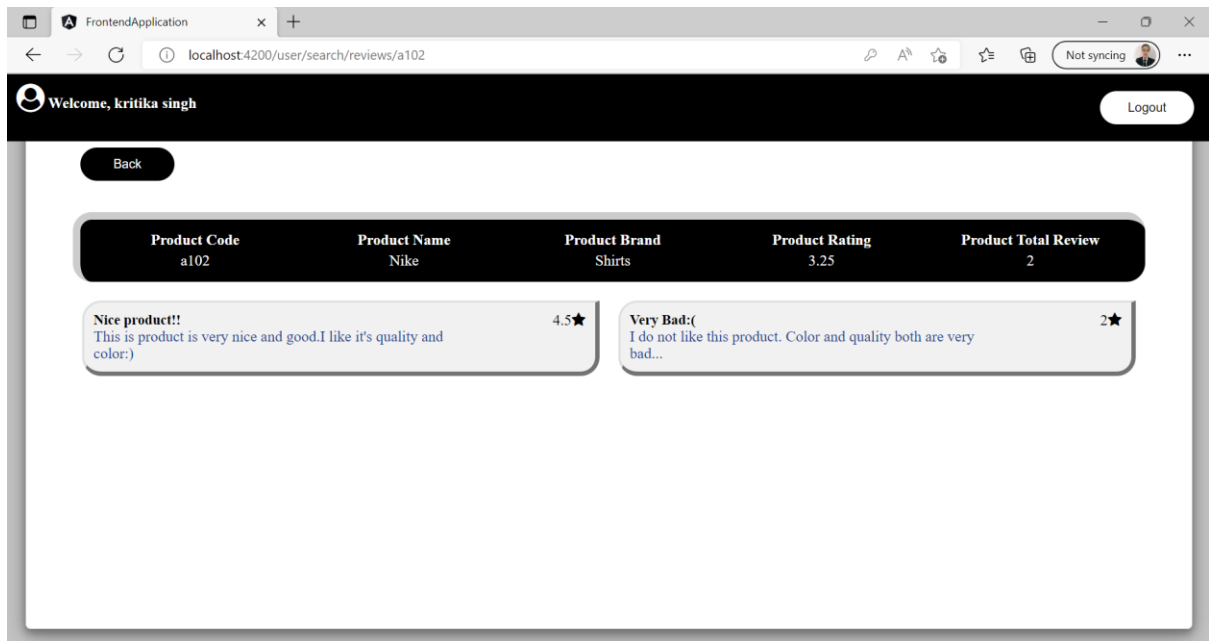
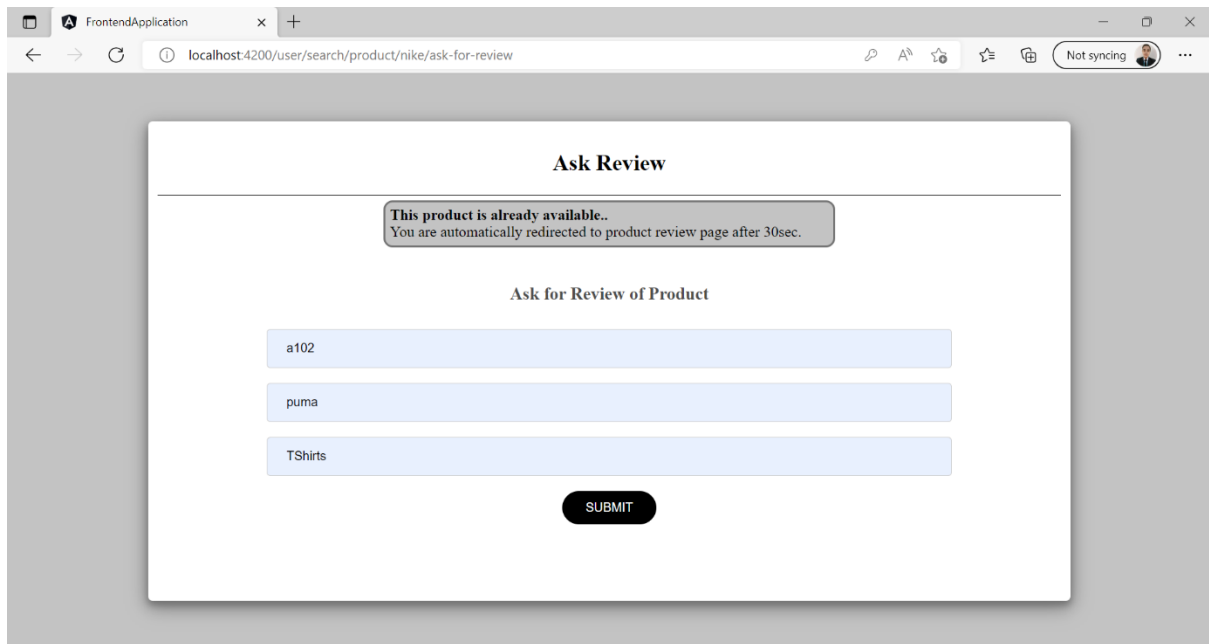
Ask For Reviews:

1. User can raise for reviews on a product by submitting a simple form with fields such as:
 - i. Product name
 - ii. code
 - iii. brand.

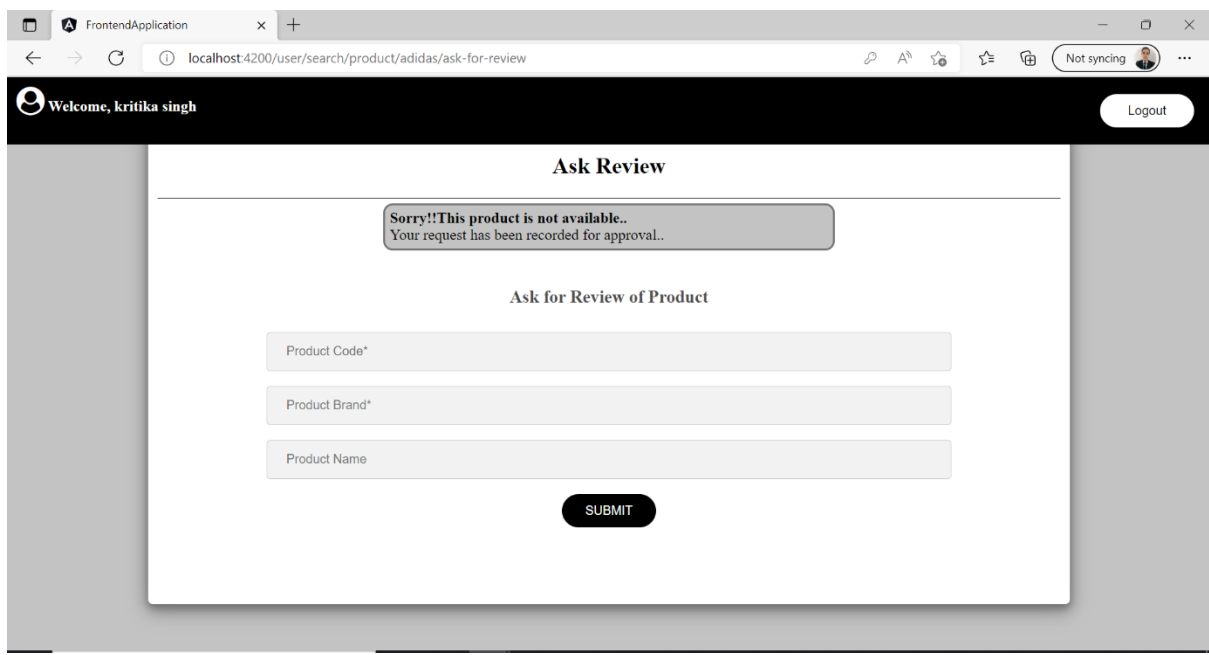
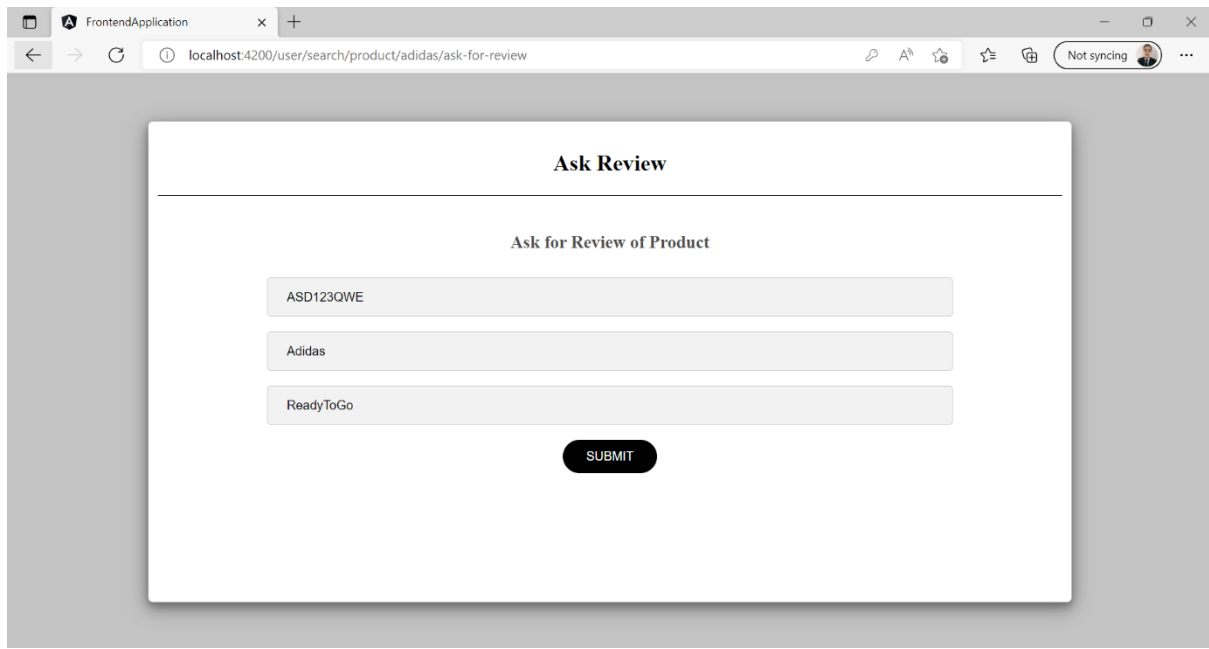


2. If a product code already exists in a system, it should provide an error message that the product already exists and should redirect to the product review page after 30 seconds.

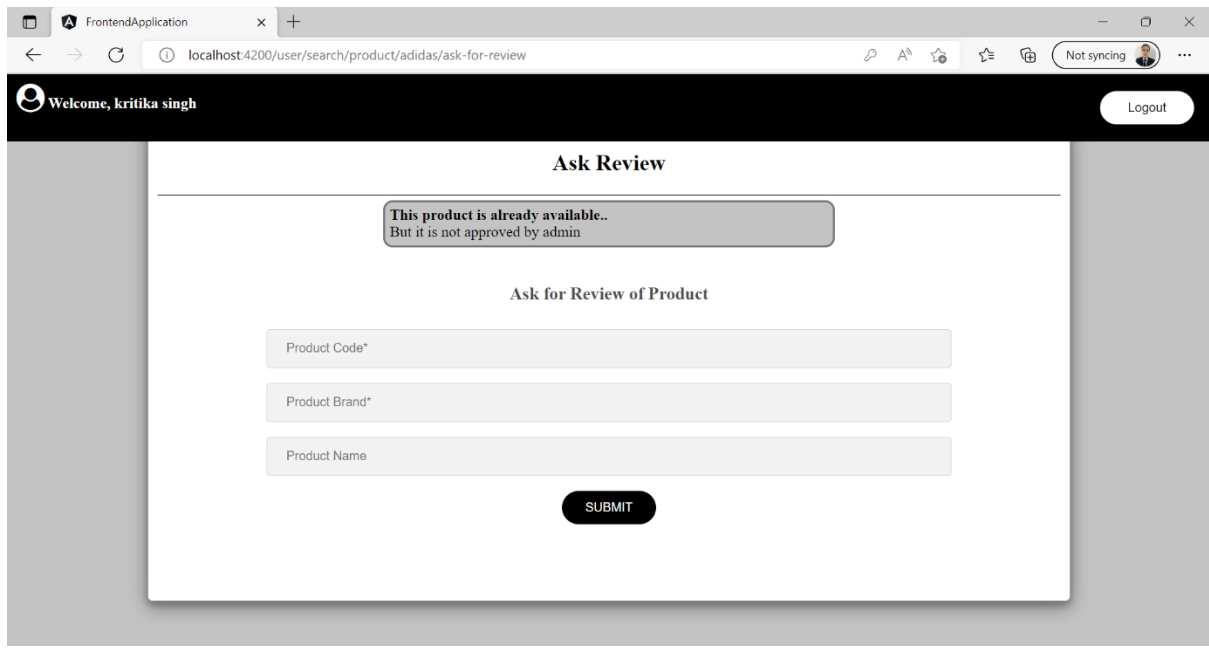
***When product is already available:**



***When Product not available:**

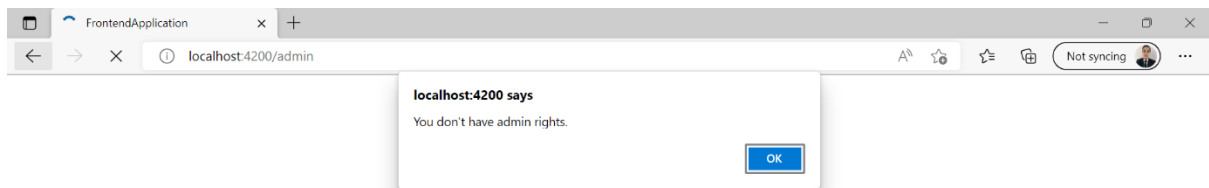


***When Product is available but not approved**



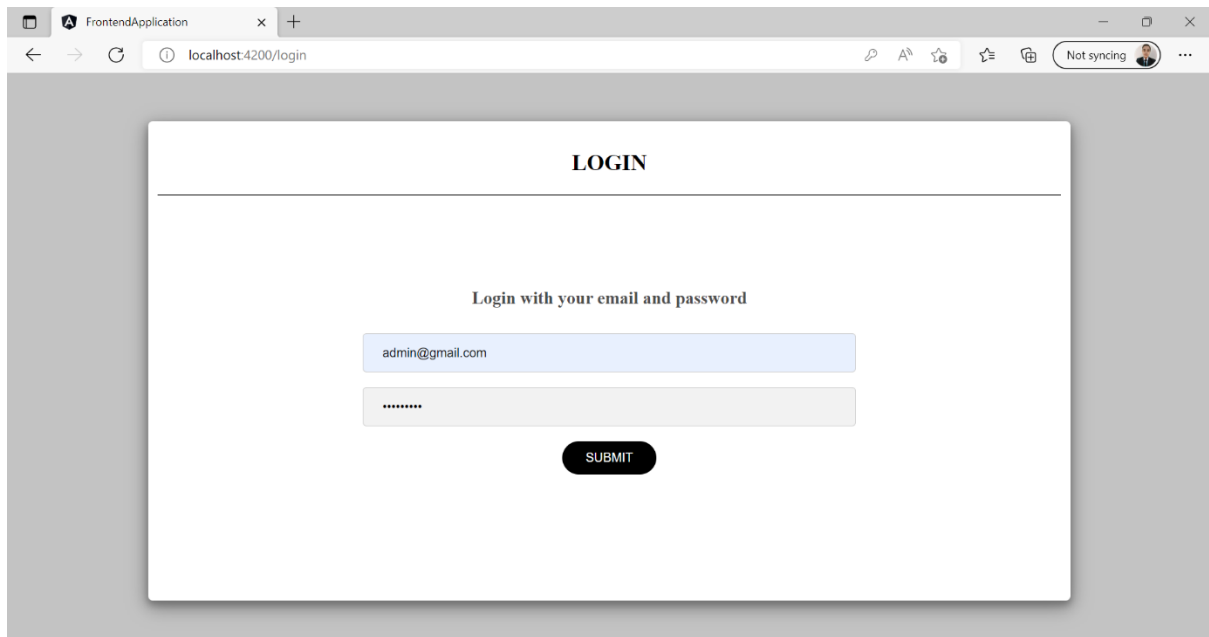
[BONUS] Admin

1. Admin can login with special email id- admin@gmail.com (assumption)
2. Only admin@gmail.com has admin right. No other user can use admin functionalities.

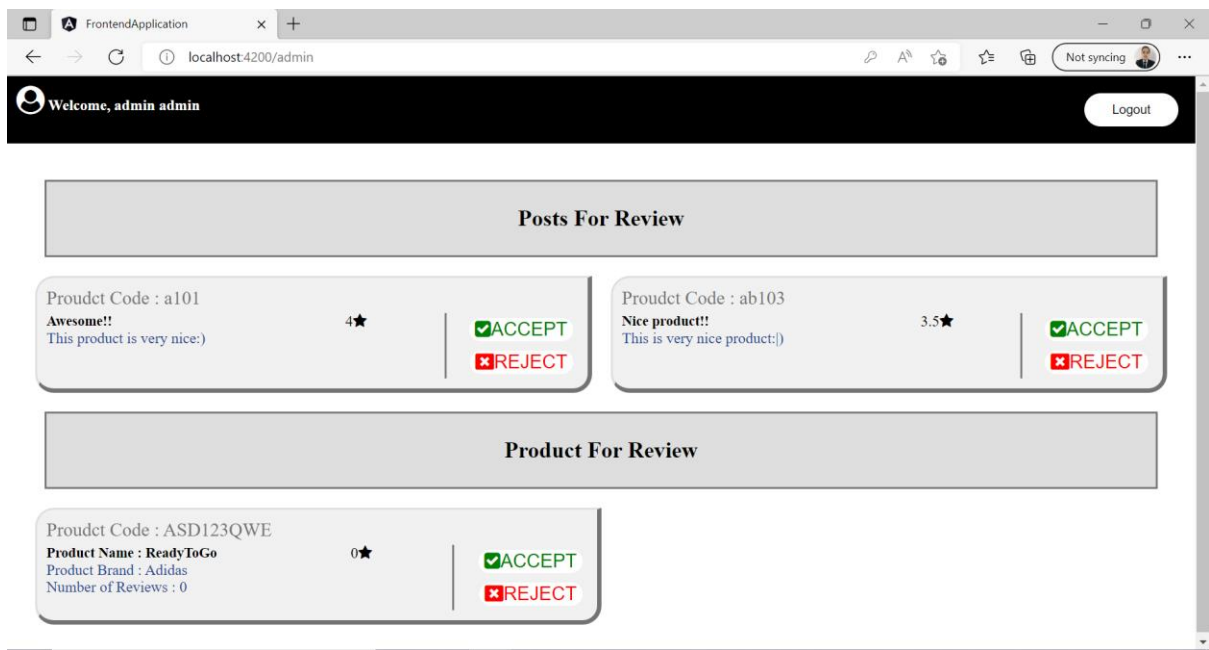


-
3. Logged in administrator can view all the new reviews and either approve or reject them.
 4. Only approved reviews are then visible on storefront and average ratings are calculated from approved reviews only.

*Login Screen



*After Successfully Login:

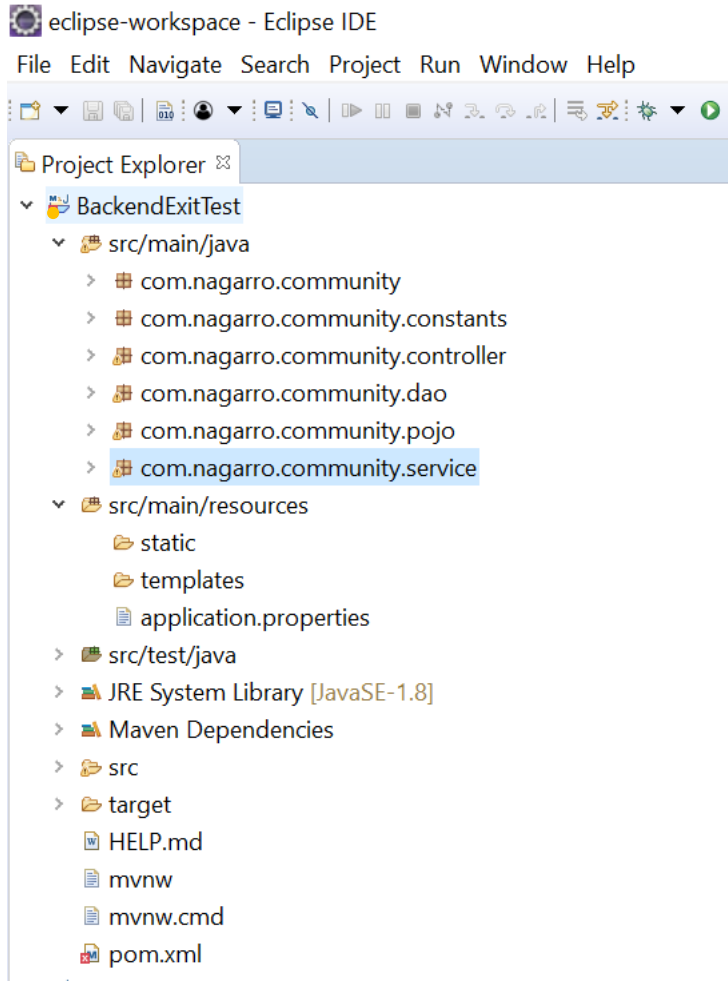


Backend Applications:

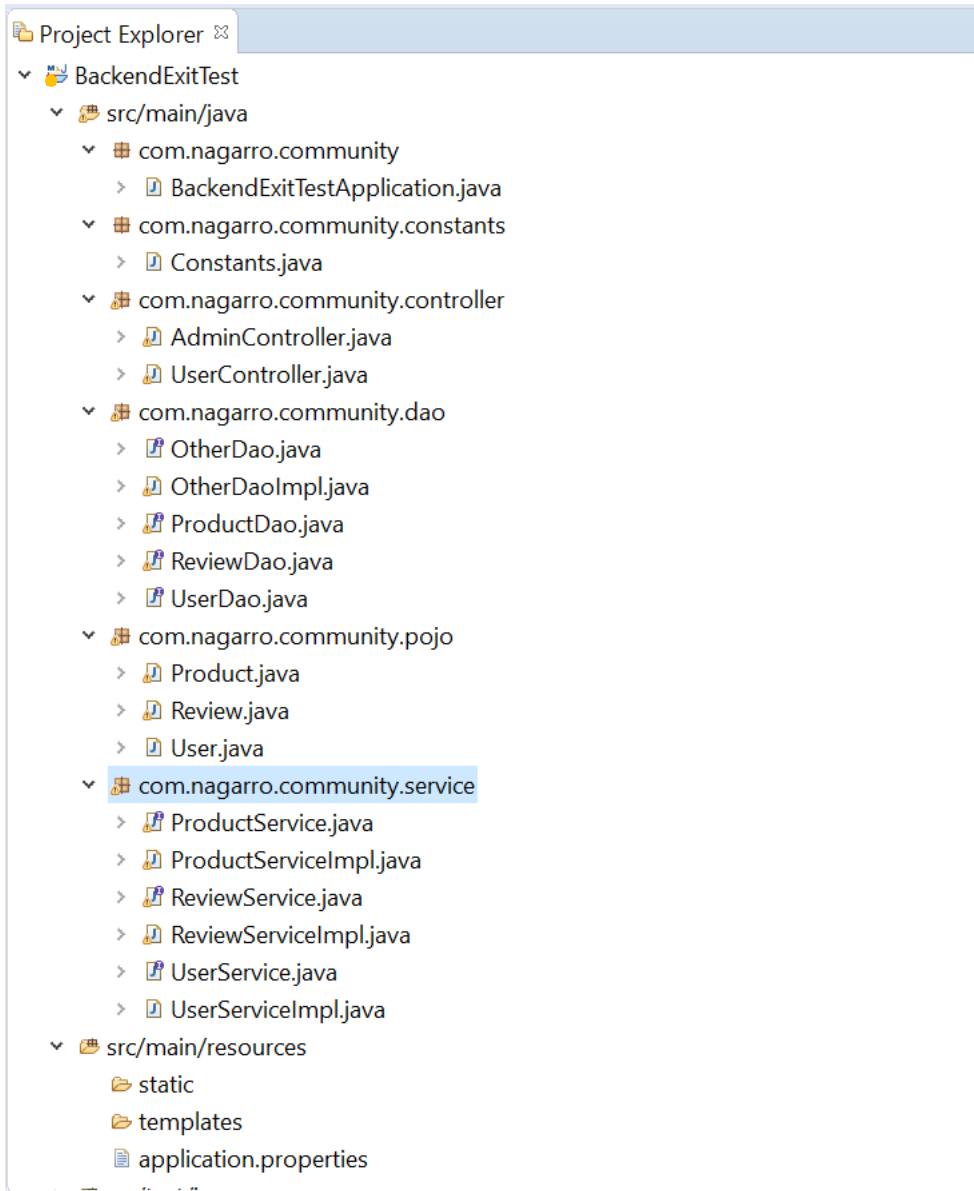
- ❖ This application is REST API no UI.
- ❖ This application is developed in Java with the help of spring boot.
- ❖ It works as backend that interact with database.

Application Structure

***Application Folder Structure:**



***Classes Inside Packages:**



❖ Database:

- i. Database use for this application is MySQL.
- ii. Database Name- community
- iii. There are three tables in Community Database-
 - Product
 - Review
 - User

```
mysql> show databases;
+-----+
| Database |
+-----+
| community |
| demo |
| information_schema |
| library |
| mysql |
| performance_schema |
| products |
| result |
| sakila |
| school |
| shophib |
| spring_shop_hib |
| sys |
| world |
+-----+
14 rows in set (0.01 sec)

mysql> use community;
Database changed
mysql> show tables;
+-----+
| Tables_in_community |
+-----+
| hibernate_sequence |
| product |
| review |
| user |
+-----+
4 rows in set (0.00 sec)
```

```
mysql> describe product;
```

Field	Type	Null	Key	Default	Extra
code	varchar(255)	NO	PRI	NULL	
brand	varchar(255)	YES		NULL	
name	varchar(255)	YES		NULL	
avg_rating	float	YES		NULL	
no_of_reviews	int(11)	YES		NULL	
approval	varchar(400)	YES		no	

```
6 rows in set (0.00 sec)
```

```
mysql> describe user;
```

Field	Type	Null	Key	Default	Extra
email	varchar(255)	NO	PRI	NULL	
firstname	varchar(255)	YES		NULL	
lastname	varchar(255)	YES		NULL	
password	varchar(255)	YES		NULL	

```
4 rows in set (0.00 sec)
```

```
mysql> describe review;
```

Field	Type	Null	Key	Default	Extra
review_id	int(11)	NO	PRI	NULL	auto_increment
approval	varchar(400)	YES		no	
heading	varchar(255)	YES		NULL	
product_code	varchar(255)	YES		NULL	
rating	float	YES		NULL	
review	varchar(255)	YES		NULL	

```
6 rows in set (0.00 sec)
```

```
mysql> select * from product;
```

code	brand	name	avg_rating	no_of_reviews	approval
a101	Puma	Shirts	0	0	yes
a102	Nike	Shirts	3.25	2	yes
a104	puma	TShirts	0	0	yes
a105	puma	TShirts	0	0	yes
a106	puma	TShirts	0	0	yes
ab101	puma	TShirts	0	0	yes
ab102	adidas	TShirts	4	1	yes
ab103	nike	TShirts	0	0	yes
AD1234QWE	adidas	ReadyToGo	0	0	yes
ADC13242545LY	Adidas	DesignedToMove	4	2	yes
ADC14536258MP	Adidas	Purple-Slim-Fit-Aeroready	4	1	yes
ADC23627167LB	Adidas	Solid-Freelift-Tennis-T-shirt	3	1	yes
ADC23627167MM	Adidas	Solid-Freelift-Tennis-T-shirt	2	1	yes
ADC76537883SB	Adidas	Adidas-Printed-Win-2.0-Tee	0	0	yes
ASD123QWE	Adidas	ReadyToGo	0	0	no
awer1234@	puma	TShirts	0	0	yes
NICB7952103MP	Nike	AMBUSH	4.5	1	yes
NICJ0921092MB	Nike	T-Shirts	0	0	yes
NICJ0921092SG	Nike	TShirt	0	0	yes
NIDD0285100MW	Nike	Jordan	3.5	3	yes
NIDJ1829010MB	Nike	Sportswear	5	1	yes
PU581371LB	PUMA	Nu-tility	0	0	yes
PU581371MB	PUMA	Nu-tility	0	0	yes
PU581371MP	PUMA	Nu-tility	0	0	yes
PU847760SB	PUMA	Graphic	0	0	yes
PU847828MB	PUMA	GraphicT-Shirts	0	0	yes
PU847828XW	PUMA	TraiPUng	0	0	yes

```
27 rows in set (0.00 sec)
```

```
mysql> select * from user;
```

email	firstname	lastname	password
admin@gmail.com	admin	admin	admin123@
kritikasingh@gmail.com	kritika	singh	kritika123@
nidhisingh@gmail.com	Nidhi	Singh	nidhi123@
ritikachandel@gmail.com	Ritika	Chandel	ritika123@

```
4 rows in set (0.00 sec)
```

```
mysql> select * from review;
```

review_id	approval	heading	product_code	rating	review
2	yes	Nice product!!	a102	4.5	This is product is very nice and good.I like it's quality and color:)
3	yes	Good Quality	ADC14536258MP	4	This is product is very nice and good.I like it's quality and color:)
5	yes	Very Bad:(a102	2	I do not like this product. Color and quality both are very bad...
8	yes	Awesome!!	NIDJ1829010MB	5	I have used this product and it is very nice. I recommend this product for other users....
9	yes	Nice product!!	NIDD0285100MW	3	I like this product!!
11	yes	Nice product!!	NIDD0285100MW	3.5	This product is very nice and good. I like this product:)
12	yes	Nice product!!	NIDD0285100MW	4	I like this product. It is very good...
13	yes	Awesome!!	ADC13242545LY	5	this is very nice product:)
14	yes	Nice product!!	ADC23627167LB	3	This product is nice. I like it..
15	yes	Very Bad:(ADC23627167MM	2	I do not like this product...
16	yes	Awesome!!	NICB7952103MP	4.5	this product is very nice:)
17	yes	Nice product!!	ADC13242545LY	3	This is very nice product:)
19	no	Awesome!!	a101	4	This product is very nice:)
21	yes	Nice product!!	ab102	4	This product is very nice...
23	no	Nice product!!	ab103	3.5	This is very nice product:)

```
15 rows in set (0.00 sec)
```

User authentication:

API Build a Rest API to support successful/unsuccessful user authentication validation.

User registration:

API Build a Rest API to register new users.

Search product:

API Build a Rest API to search a product by one or many of the following parameters:

1. Product name
2. Brand
3. Product code

Post reviews:

API Build a Rest API to post a new review.

[BONUS] Approve review:

API Build a Rest API to approve a review. Request review API Build a Rest API to request a review for a product.

Stats :

API Build a Rest API to get count of stats to be shown on homepage