Kitchen Story

Project Details

This project aims to design and develop an E-commerce website that lets people shop basic food items using Angular and Spring boot. It enables users to search and buy the available products. It was developed as a project of Phase-4 for the Full Stack Java Developer course.

Product Backlog:

1. Create database and tables.
2. Initialize a Spring Boot project for the Back-End side.
3. Create REST APIs with spring Data JPA Repositories
4. Create a new Angular project for the Front-End side.
5. Create login and register pages.
6. Show all products to the home page.
7. Create a product details component.
8. Search a product by a category.
9. Search a product by a keyword.
10. Add products to the cart.
11. Show user’s cart.
12. Remove a product from the cart.
13. Update user account
14. Create the admin view

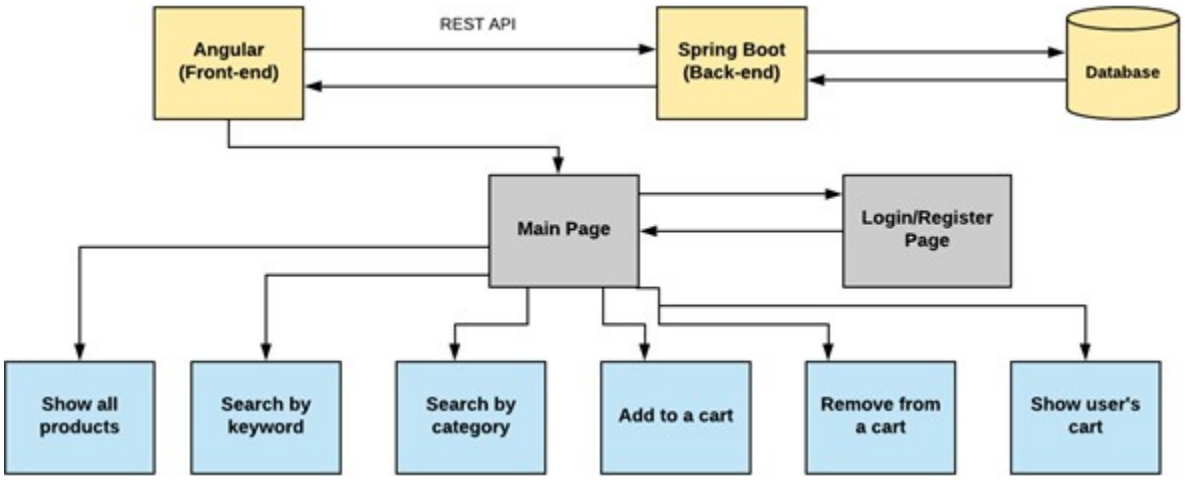
15. Delete a product for the admin
16. Add a new product for the admin
17. Add bootstrap and font awesome to the components.
18. Debug and test the project.

Technologies and tools Used

1. Angular: used in the front-end side to build modern single-page applications
2. Spring Boot: used in the back-end side to create the REST API and retrieve data from a database.
3. HTML/CSS: to create and format the content of the pages.
4. Bootstrap: to use some CSS and JavaScript designs.
5. Maven: to manage the project.
6. Visual Studio Code: to write and run the Angular code.
7. Eclipse: to write and run the Spring Boot code.
8. MyAdmin: to administrate and manage the database manually.

Flowcharts of The Application

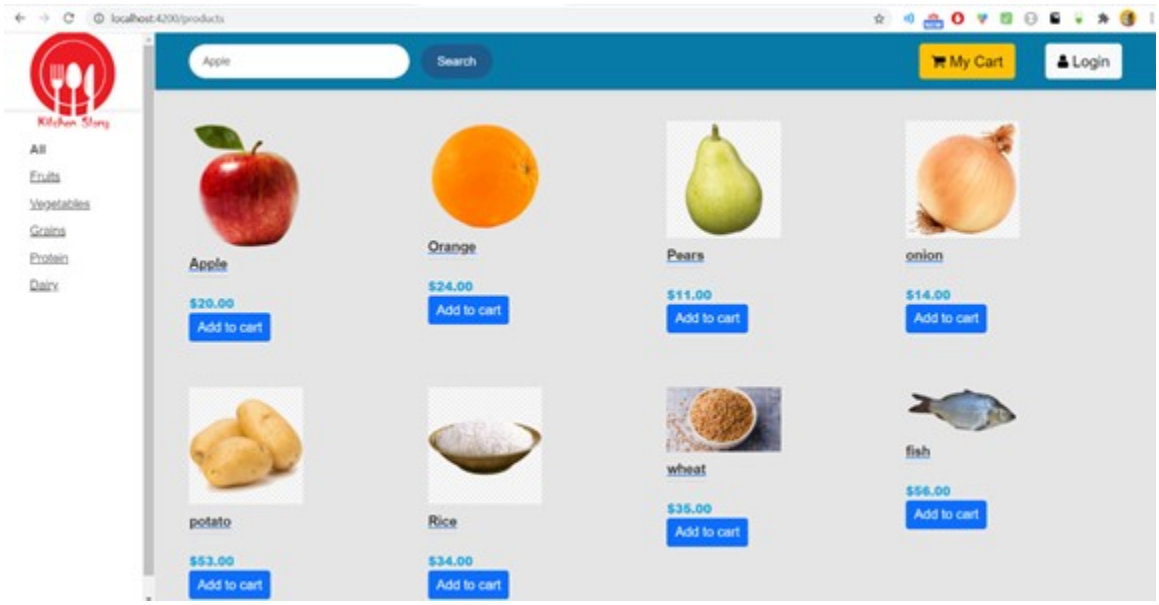
Flow chart is for submit number 1 (some few changes were not added here)

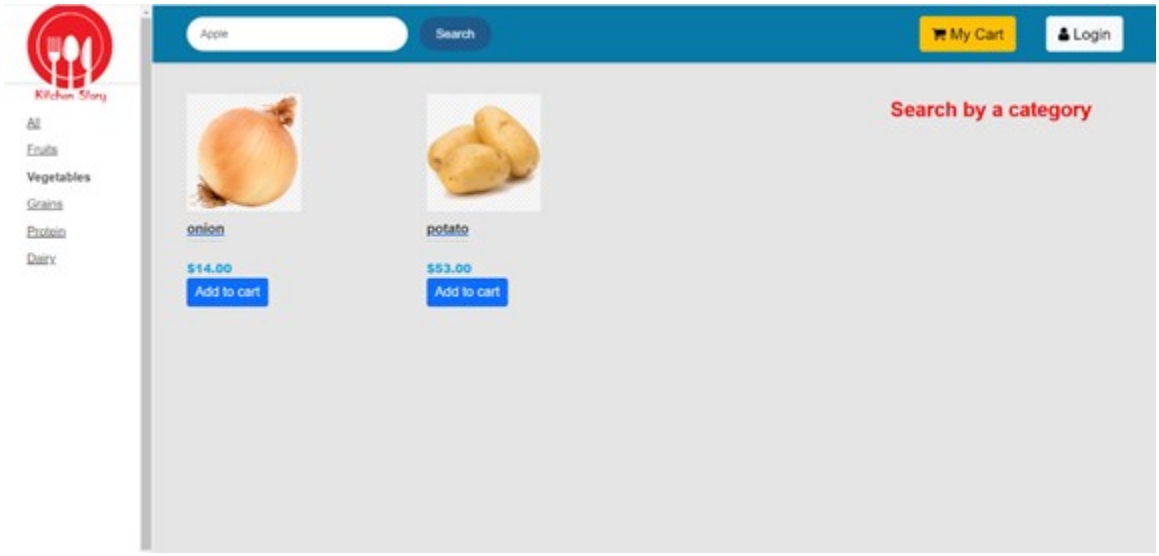


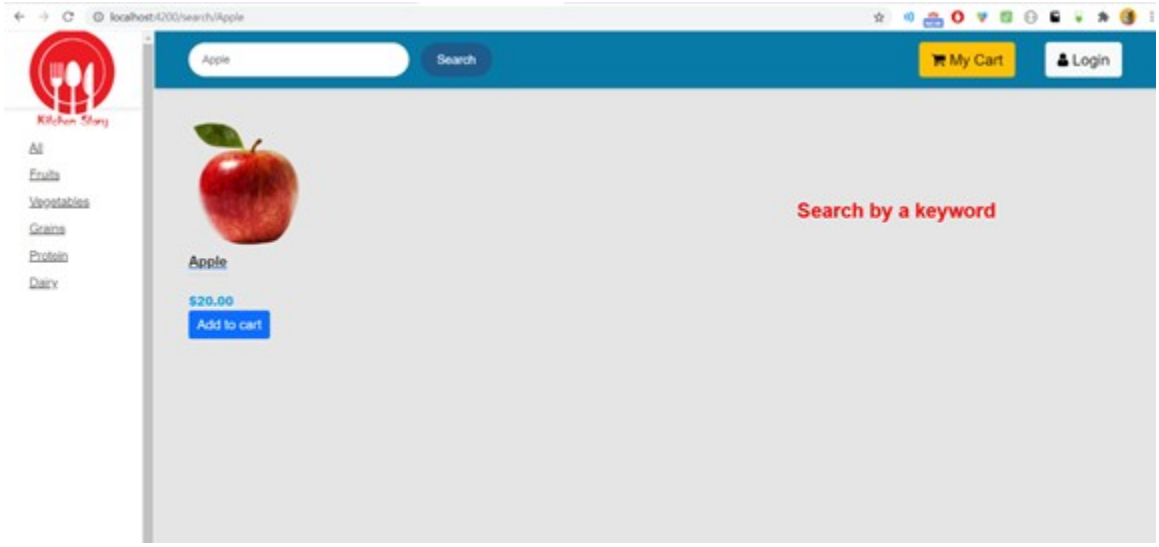
Core concepts used in the project.

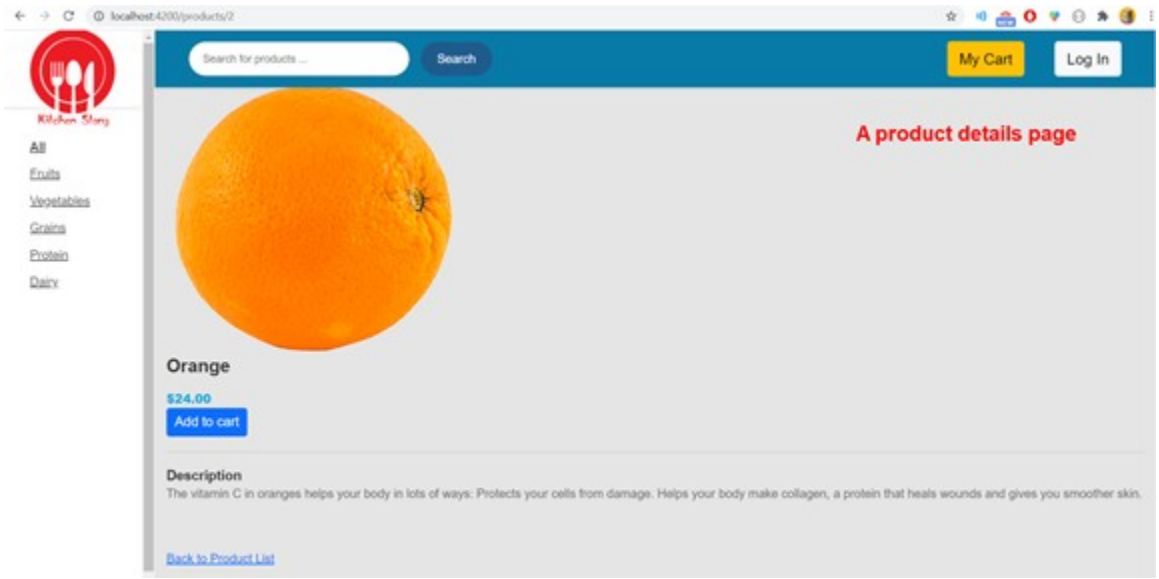
1. Object-Oriented: used to create and model objects for users and their credentials.
2. REST API: used to communicate between the back-end and the front-end sides.
3. Data Access Object: to abstract and encapsulate all access to the data source.
4. Object–Relational Mapping: to map the objects to the database.
5. Databases: used to store and retrieve data.
6. Data Sources: used to define a set of properties required to identify and access the database.
7. Collections: used some collections such Array list to store collection of data.
8. Exception Handling: used to catch problems that arises in the code especially in I/O blocks.

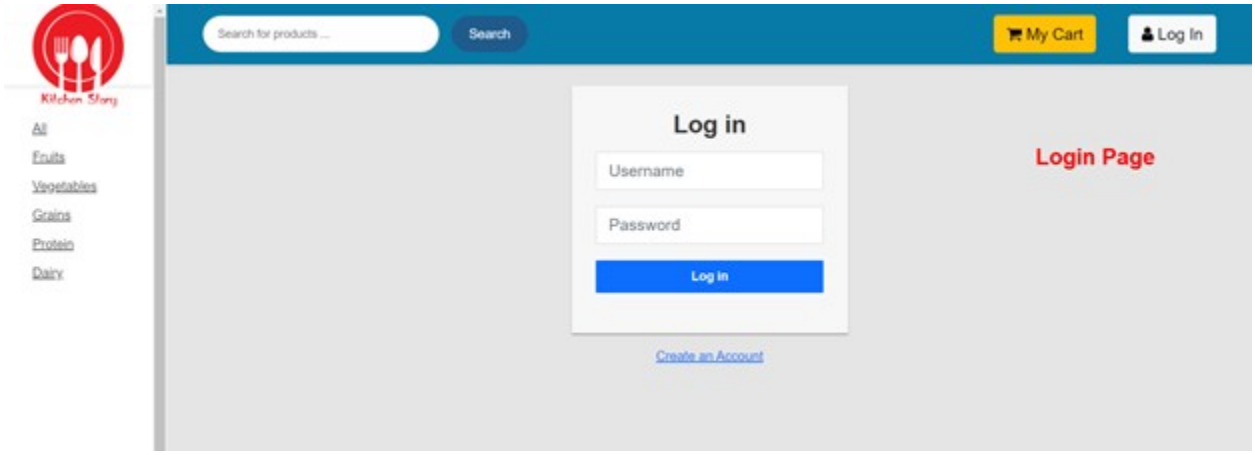
Screenshots

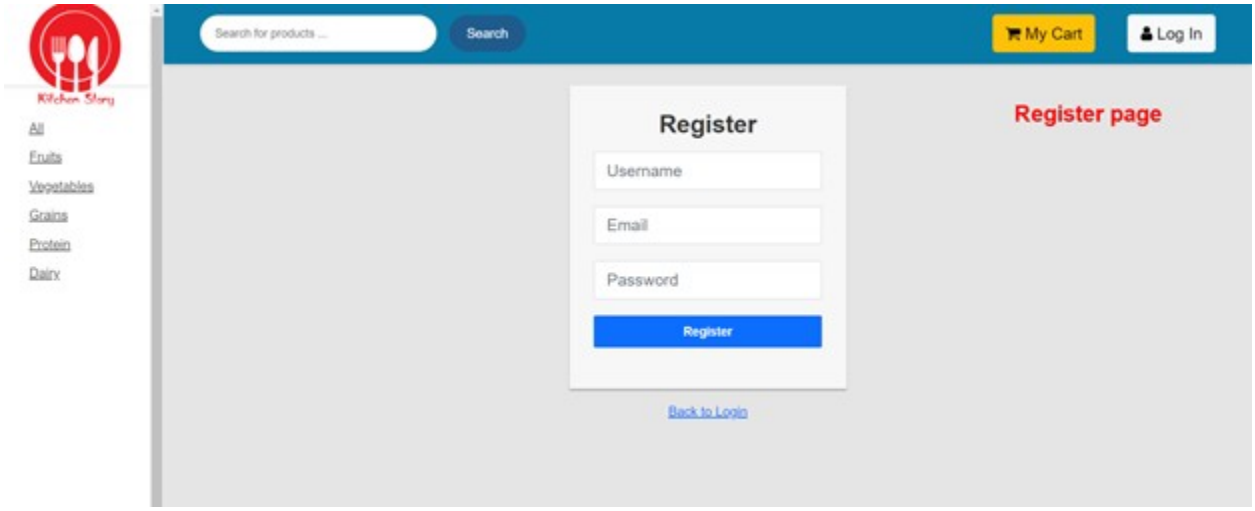

localhost:4200/products
Kitchen Story
All
Fruits
Vegetables
Grains
Protein
Dairy
Apple
Search
My Cart
Login
Apple
$20.00
Add to cart
Orange
$24.00
Add to cart
Pears
$11.00
Add to cart
onion
$14.00
Add to cart
potato
$53.00
Add to cart
Rice
$34.00
Add to cart
wheat
$35.00
Add to cart
fish
$56.00
Add to cart

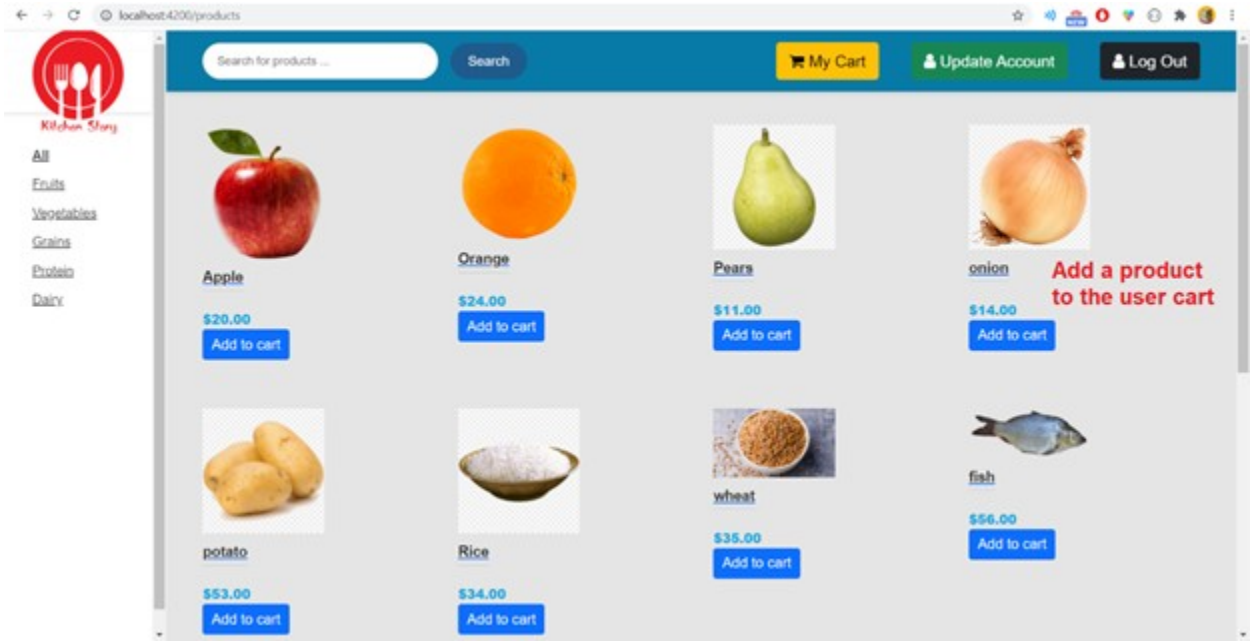

Apple
Search
My Cart
Login
Kitchen Story
All
Fruits
Vegetables
Grains
Protein
Dairy
onion
$14.00
Add to cart
potato
$53.00
Add to cart
Search by a category

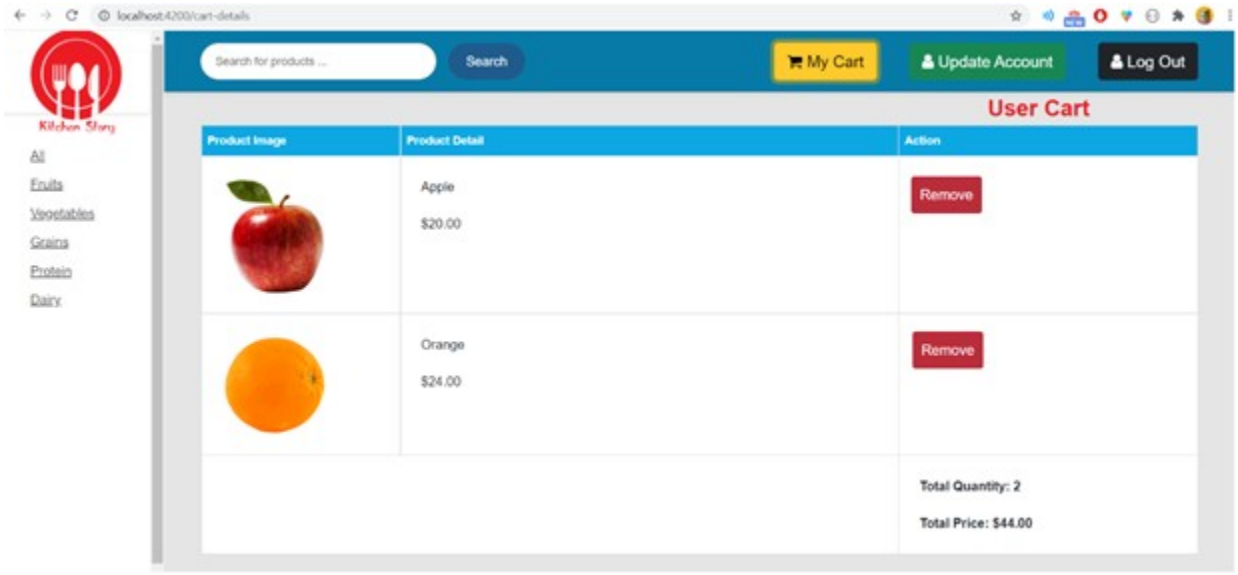

localhost:4200/search/Apple
Apple
Search
My Cart
Login
Kitchen Story
All
Fruits
Vegetables
Grains
Protein
Dairy
Apple
$20.00
Add to cart
Search by a keyword

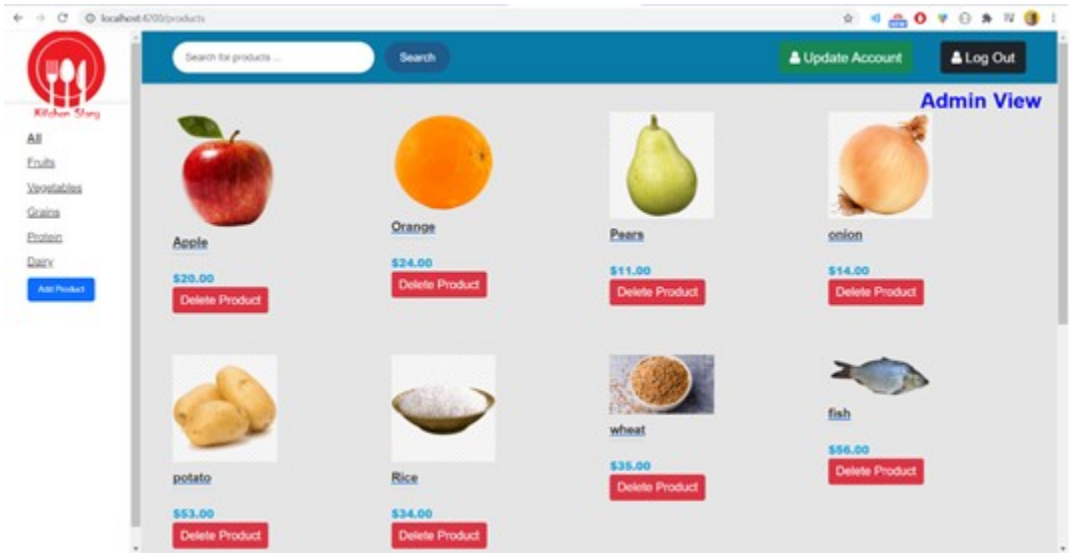

localhost:4200/products/2
Search for products ...
Search
My Cart
Log In
Kitchen Story
All
Fruits
Vegetables
Grains
Protein
Dairy
Orange
$24.00
Add to cart
Description
The vitamin C in oranges helps your body in lots of ways: Protects your cells from damage. Helps your body make collagen, a protein that heals wounds and gives you smoother skin.
Back to Product List
A product details page


Search for products ...
Search
My Cart
Log In
Kitchen Story
All
Fruits
Vegetables
Grains
Protein
Dairy
Log in
Username
Password
Log in
Create an Account
Login Page


Search for products ...
Search
My Cart
Log In
Kitchen Story
All
Fruits
Vegetables
Grains
Protein
Dairy
Register
Username
Email
Password
Register
Back to Login
Register page


localhost:4200/products
Search for products ...
Search
My Cart
Update Account
Log Out
Kitchen Story
All
Fruits
Vegetables
Grains
Protein
Dairy
Apple
$20.00
Add to cart
Orange
$24.00
Add to cart
Pears
$11.00
Add to cart
onion
$14.00
Add to cart
Add a product to the user cart
potato
$53.00
Add to cart
Rice
$34.00
Add to cart
wheat
$35.00
Add to cart
fish
$56.00
Add to cart


localhost:4200/cart-details
Kitchen Story
Search for products ...
Search
My Cart
Update Account
Log Out
User Cart
All
Fruits
Vegetables
Grains
Protein
Dairy
Product Image
Product Detail
Action
Apple
$20.00
Remove
Orange
$24.00
Remove
Total Quantity: 2
Total Price: $44.00


Kitchen Story
Search for products ...
Search
Update Account
Log Out
Admin View
All
Fruits
Vegetables
Grains
Protein
Dairy
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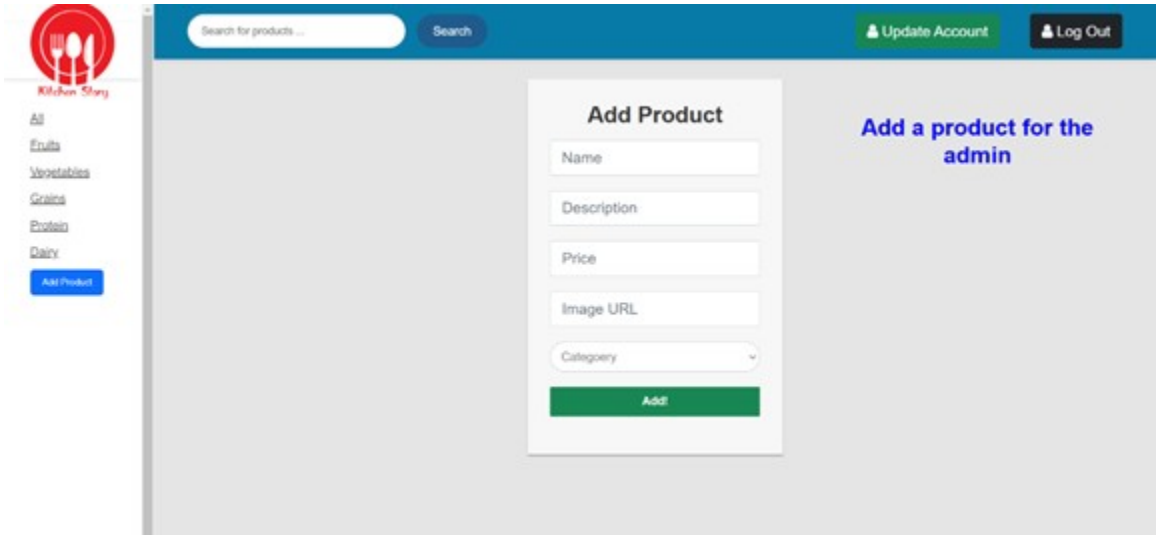
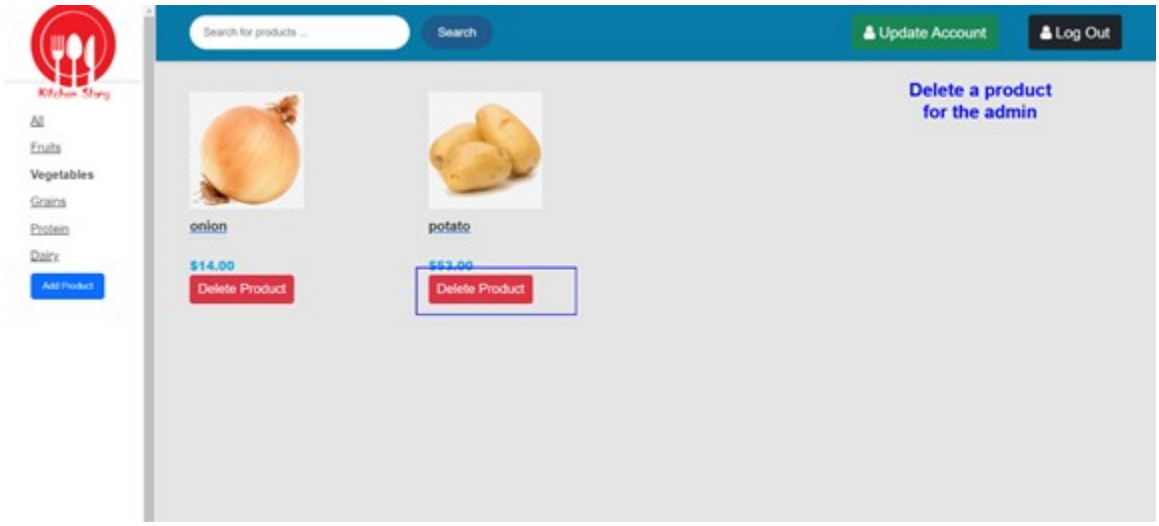
Delete Product
potato
$53.00
Delete Product
Rice
$34.00
Delete Product
wheat
$35.00
Delete Product
fish
$56.00
Delete Product


Search for products ...
Search
Update Account
Log Out
Kitchen Story
All
Fruits
Vegetables
Grains
Protein
Dairy
Add Product
Add Product
Name
Description
Price
Image URL
Category
Add!
Add a product for the admin


Search for products ...
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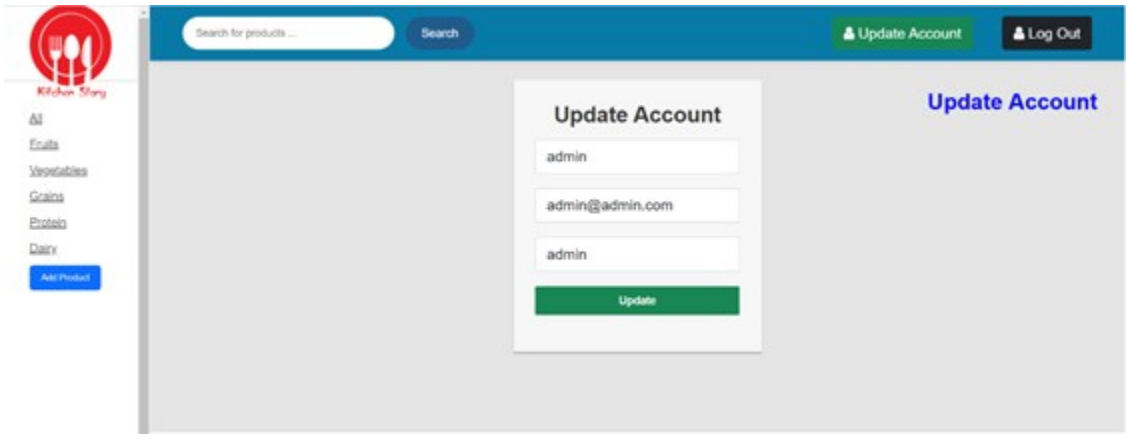
Delete Product
Delete a product for the admin


Search for products ...
Search
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All
Fruits
Vegetables
Grains
Protein
Dairy
Add Product
Update Account
admin
admin@admin.com
admin
Update
Update Account