

Team:

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Title:

Breaking Bread

Project Summary:

Breaking Bread is an online bakery store with a catalogue of bakery utensils, merchandise, and customizable baked goods that are shipped directly to your home.

Project Requirements:

User Requirements

- UR-01: As a customer or admin, I can use my email to sign up
- UR-02: As a customer or admin, I can search for available products
- UR-03: As a customer, I can add items to my cart
- UR-04: As a customer, I can delete items from my cart
- UR-05: As a customer, I can submit orders
- UR-06: As a customer, I can view my orders
- UR-07: As a customer, I can customize items
- UR-08: As a customer, I can cancel orders
- UR-09: As an admin, I can remove products
- UR-10: As an admin, I can add new products
- UR-11: As an admin, I can modify products
- UR-12: As an admin, I can add temporary deals to products
- UR-13: As an admin, I can view customer accounts
- UR-14: As an admin, I can remove customer accounts

Business Requirements

- BR-01: Login names must be the email used when signing up
- BR-02: Admins must use a company email to sign up

Functional Requirements

- FR-01: When a customer submits an order, the quantity of products should decrease accordingly
- FR-02: When a customer adds an item to cart they should be able to customize it
- FR-03: When a customer searches for products, they should be provided with matching products
- FR-04: When an admin signs on, they should be able to view a dashboard

Non-Functional Requirements

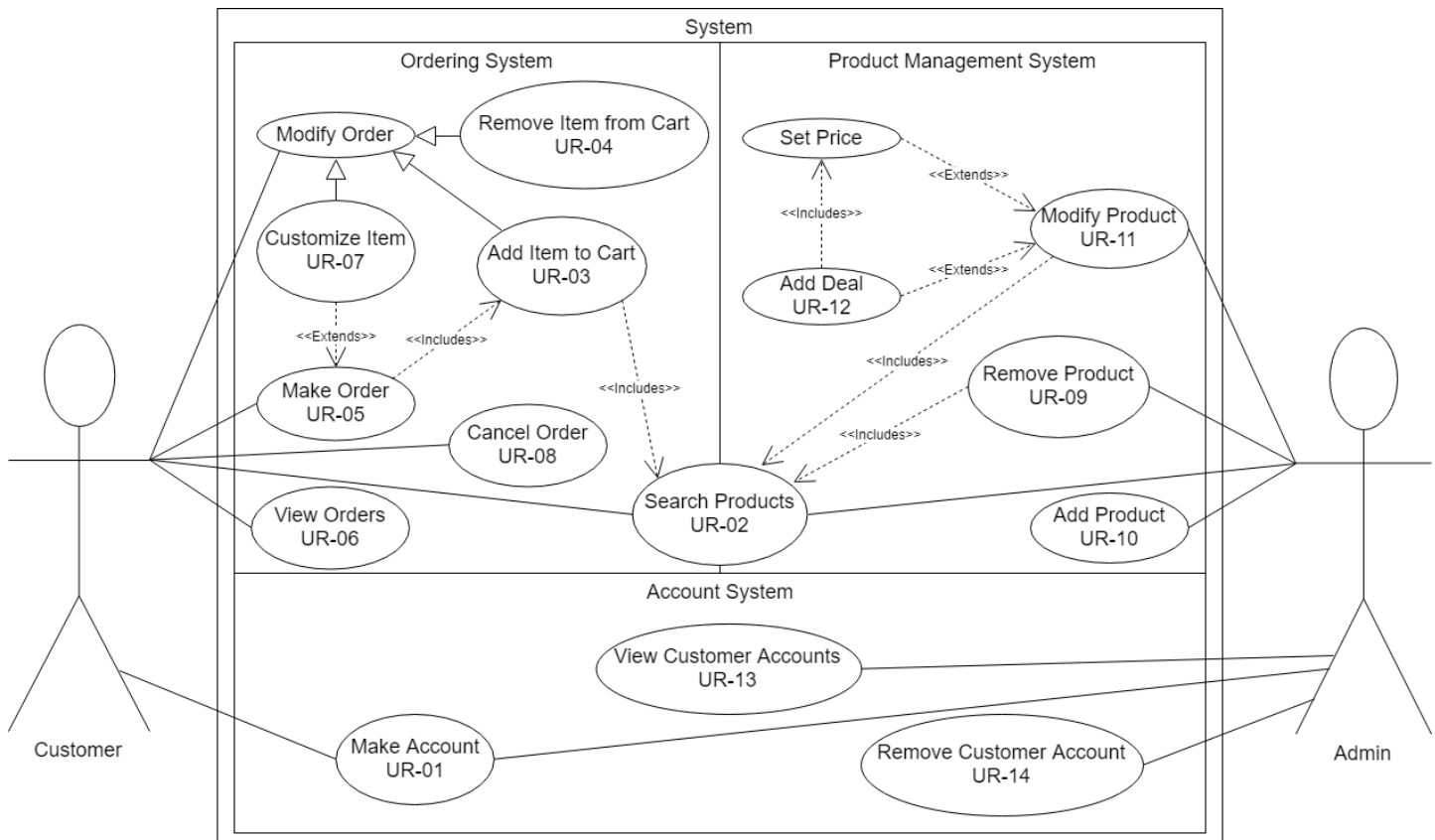
- NR-01: Support up to 200 concurrent users
- NR-02: Support up to 10,000 products
- NR-03: The system should be up 24/7
- NR-04: All user information should be encrypted

Data Storage:

MySQL using JDBC

Use Cases:

Use Case Overview



Use Case Documents:

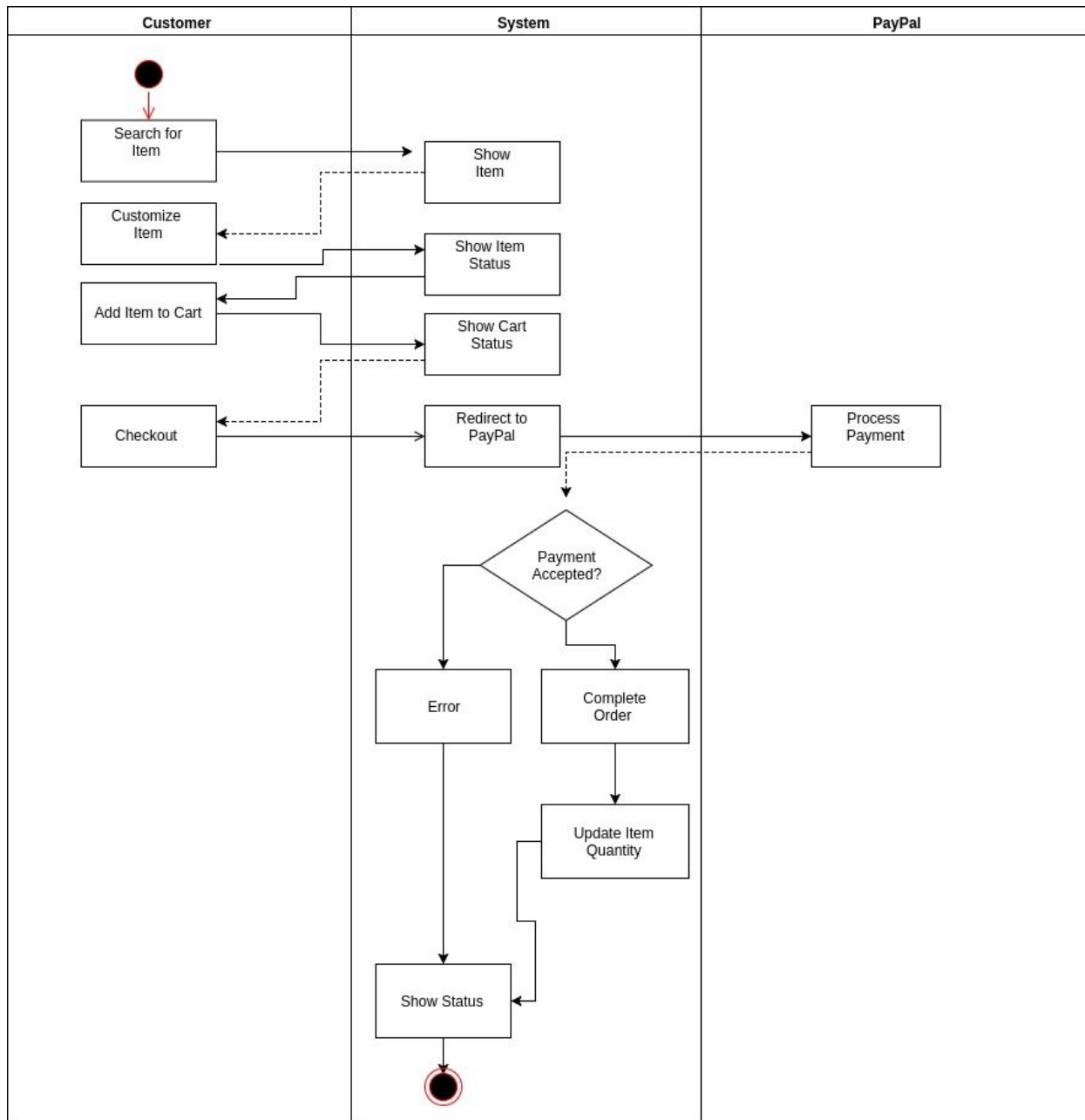
Use Case ID		UR-05	
Use Case Name	Make an order		
Description	Customer can find and purchase a set of products.		
Actors	Customers		
Pre-conditions	Customer is logged in. Selected products are in stock. Customer has valid shipping address. Customer has sufficient money to purchase products.		
Post-conditions	Product quantities are updated. Products are baked, if necessary, and then shipped to customer.		
Frequency of Use	Frequently throughout the day by customers.		
Flow of Events		Actor Action	System Response
	1	Click on search bar.	
	2	Enter keywords for desired product.	Displays relevant products.
	3	Click on desired product.	Display product information.
	4	Click on add to cart button.	Display quantity of items in Cart and subtotal.
	5	Click on checkout.	Display amount due. Confirm shipping address.
	6	Click confirm.	Ask for PayPal information.
	7	Enter PayPal information.	PayPal processes purchase. System displays success message. Products are shipped to shipping address.
Variations	1. Browse by category displayed on the homepage. 4. Click on Customize button to customize product before adding to cart. 4. Click on Buy Now button to immediately go to shipping address confirmation. 5. Click on search bar again and repeat actions 1 through 4 to add additional items. 6. Click Change button and enter new shipping address.		
Exceptions	2. Error message: No search results. 4. Error message: Out of stock. 7. Error message: Payment failed. 7. Error message: Invalid PayPal account.		

Notes	Products are the generic class of objects sold and Items are instances of Products. Hence, you search for a Product, e.g., Birthday Cake, but buy an Item, e.g., the specific Birthday Cake 423.
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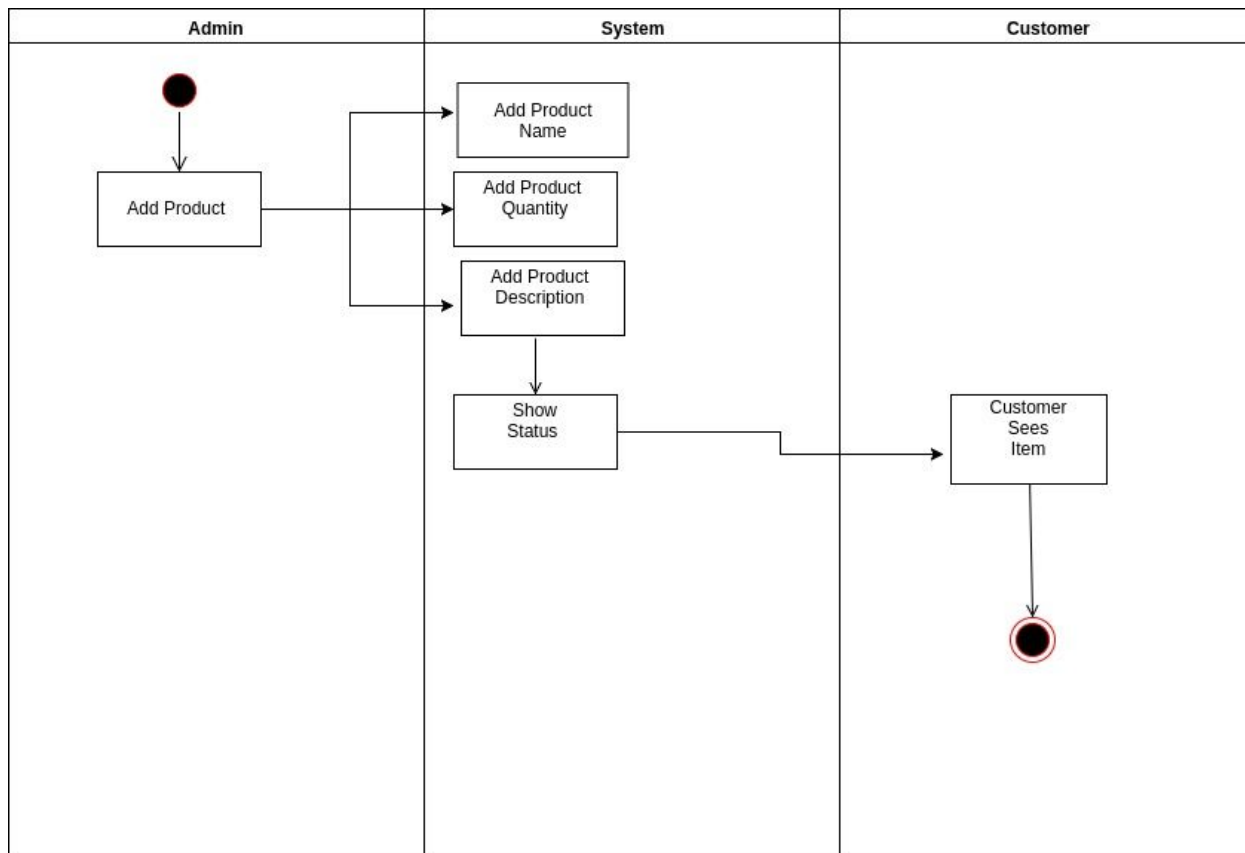
Use Case ID			UR-10
Use Case Name			Add a product
Description			Admin can add a product to the online catalog.
Actors			Admin
Pre-conditions			Admin is logged in. Store has ingredients/supplies for product. Store has image of product
Post-conditions			Product is added to database Product is available on online store
Frequency of Use			Occasionally every month by admins
Flow of Events		Actor Action	System Response
	1	Click on add product button.	Ask for product title.
	2	Enter product title.	Ask for product quantity
	3	Enter product quantity.	Ask for product description.
	4	Enter product description.	Ask for product price.
	5	Enter product price.	Ask for image upload.
	6	Click on Upload Image.	Open local directory.
	7	Select image file.	Display and confirm image.
	8	Click on Yes	Display and confirm product store page.
	9	Click on Finished	Return to admin homepage.
Variations		6. Click on No Image to give product default image 8. Click on Upload Images to add one or more images 9. Click on Customize button to add customization options	
Exceptions		2. Error message: Name already taken 5. Error message: Invalid price 7. Error message: Unsupported file type	

Activity Diagrams:

Use Case UR-05: Making an Order

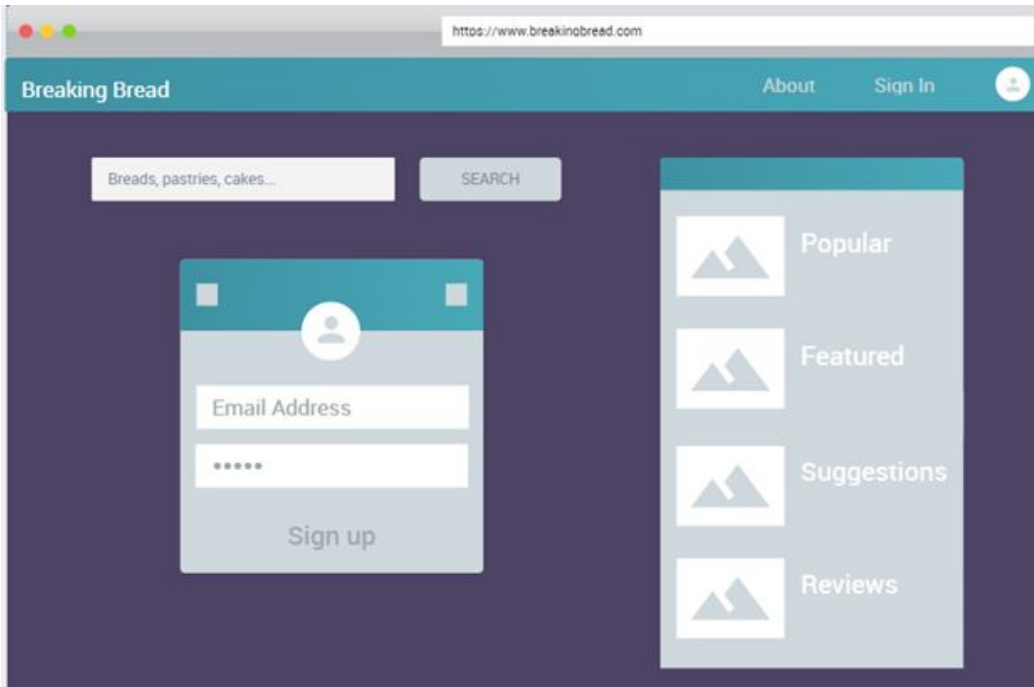


Use Case UR-10: Adding a new product

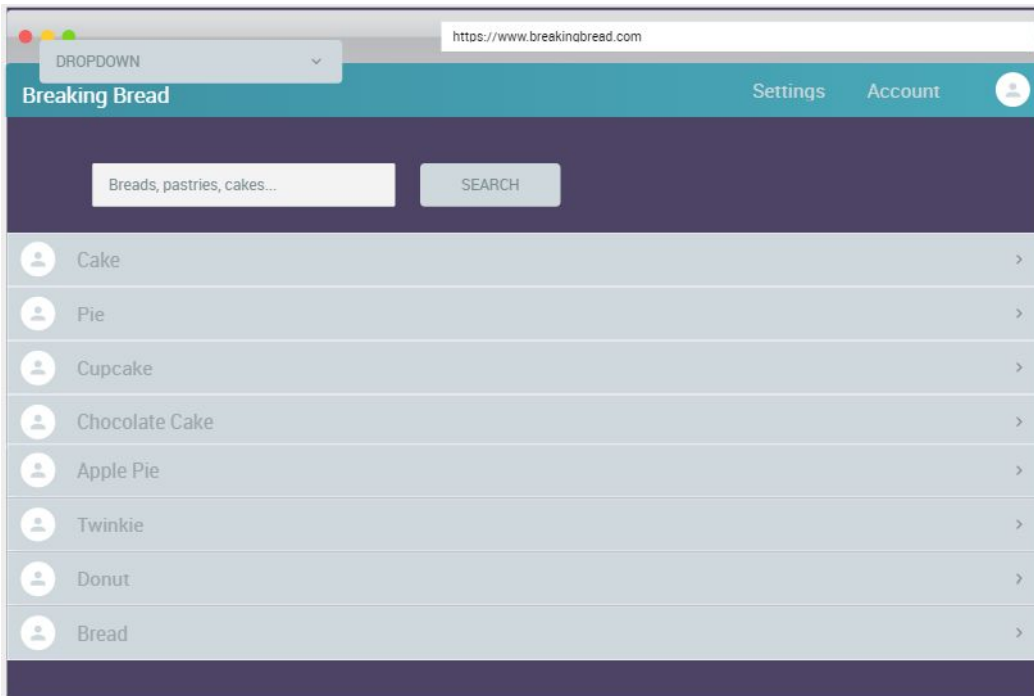


UI Mockups:

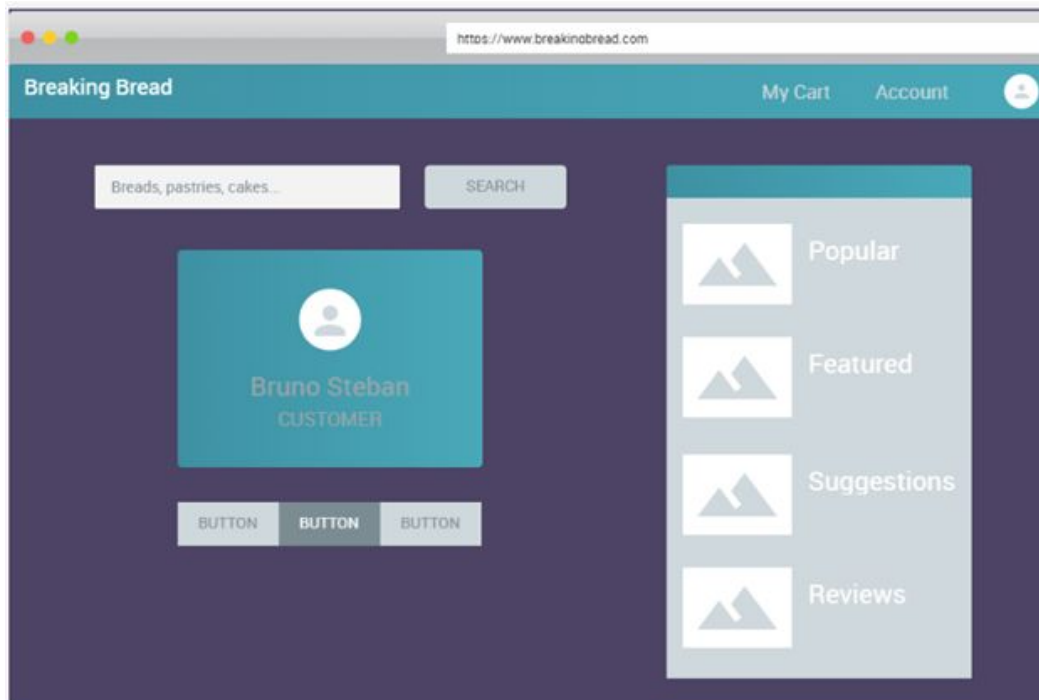
User Sign Up



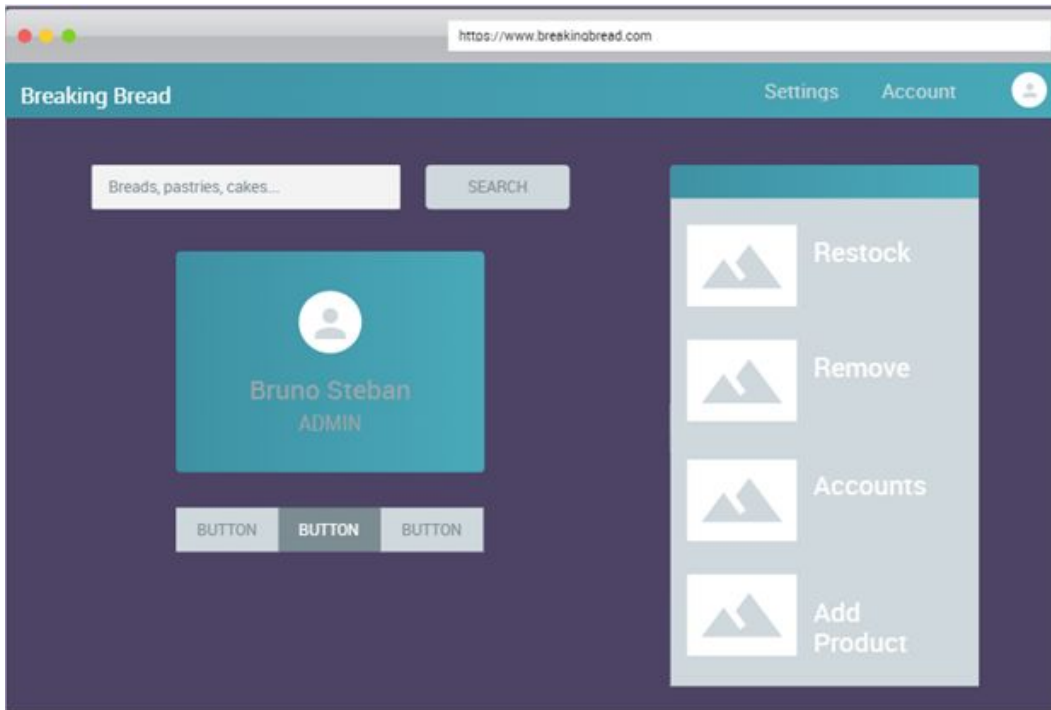
Search Result



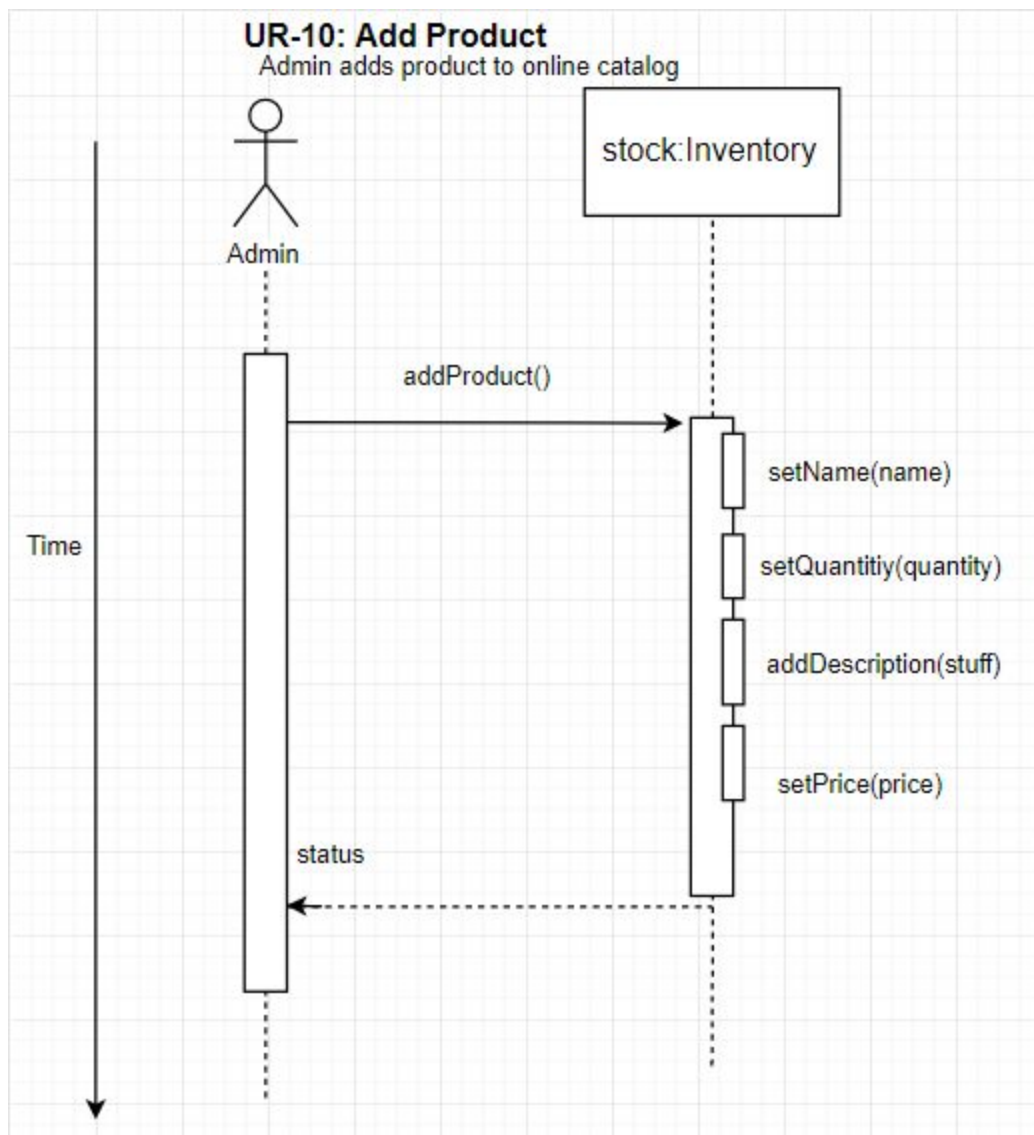
User Homepage



Admin Homepage

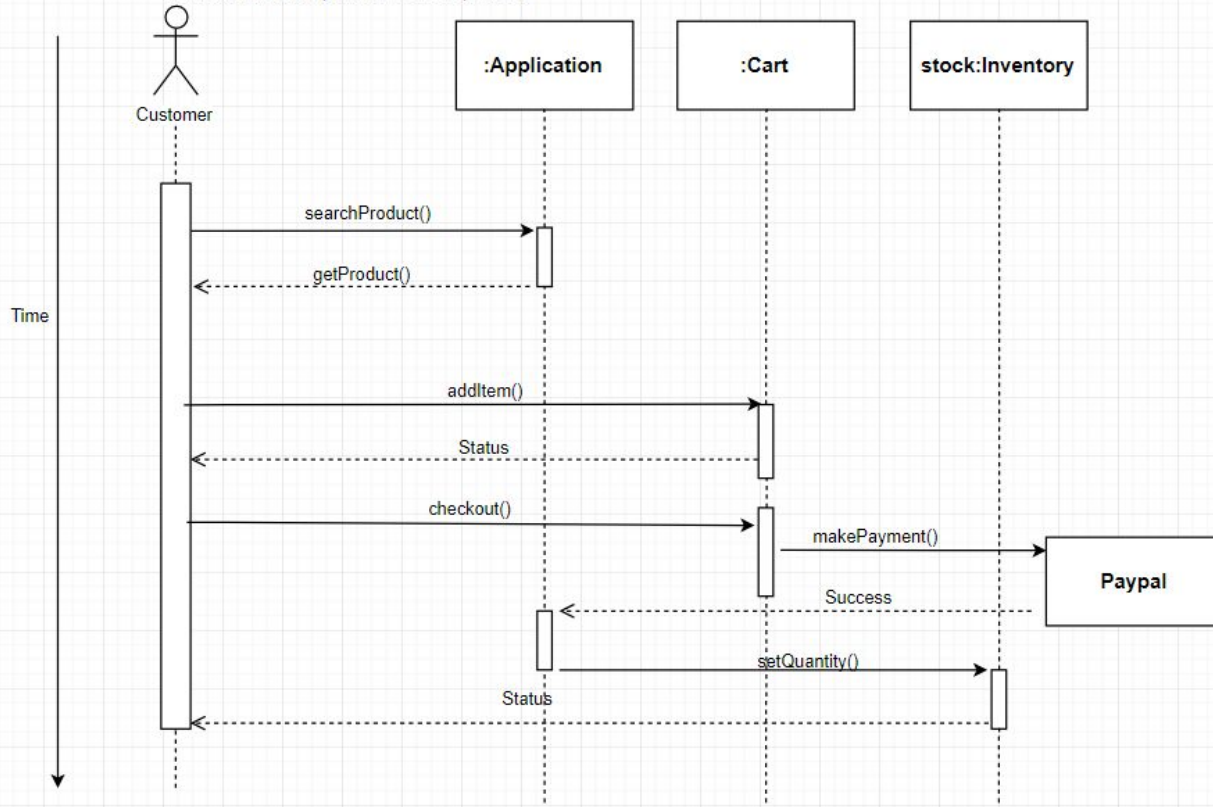


User Interactions:



UR-05: Make an Order

Customers find and purchase a set of products



Class Diagram:

