

CS 6314 : WEB PROGRAMMING LANGUAGE

Project Title : Website for Specialty Bakery

Name of the Website : Specialty Bakery

Project Description :

- The project is a web application for 'Specialty Bakery' which provides a platform for buying bakery products like Cupcakes, Donuts and Biscuits.
- The website is designed for both User and Admin which has different functionalities incorporated depending upon the activity.
- The functionalities for the User are :
 1. Signup: Register a new user to the system. For the registration part we check the following:
 - a. Check if the username is already registered in the database. If it already exists, it will show that the user already exists.
 - b. Form validation i.e all the required fields are filled and check for the validations like email and password.
 - c. Hashed versions of password is stored in the database after sign up activity.
 2. Login: Once the account is registered then user/admin can login in, in the system and it displays a welcome message for the user within the home page.
 3. All available products (products having quantity >0 and who have been made available by admin) are displayed on the website. User can search for specific products and filter them according to the category. Search and filter are incorporated together.
 4. Pagination functionality is incorporated for the product view. Pagination works with search and filter function.
 5. After logging in, the user can add products to the cart. The user can change the quantity of the products and the price is displayed accordingly in the cart. Once the user has added all the products, he can checkout all the items.
 6. A cart is maintained for each user individually and the user can update(update the quantity and add that to cart) and delete cart items before checking out.
 7. User can view his order history.
- The functionalities for the admin are :
 1. The admin can perform operations like adding a new product, editing/updating an existing product. Admin can upload pictures from the computer itself while adding a new product as well as editing an existing product.
 2. The admin performs soft deletion of products which sets the flag of the product to 0 for virtual delete. When the admin deletes a product, it stays in the database and the admin can view all products while the user can view only those products that the admin has made available for user.
 3. Admin can view all the products in the system.(List of products)
(Available and Not Available products for users can be seen by Admin, but only available products can be seen by Users)

Database Design :

The database for the web application is designed using Mongodb.

We have created different collections for the system :

1. Account collection to store information about the registration.
2. Product collection to store information about all the product details in the database.
3. Cart collection to store the cart items for a particular user.
4. OrderHistory to maintain the previous orders of the user.

The database schema is as follows :

Collection 1 : User

```
{  
    "_id" : ObjectId("619d83471b40489add870c3b"),  
    "username" : "shreya",  
    "email" : "shreya@gmail.com",  
    "salt" : "4faa3d94024285865220c120d0d9478153a26888a6716273300c642a058e7c27",  
    "hash" :  
        "d5c45624bef581344b93378b1d8677cea66b4226e4b464b42595f7e8a2ce230c4f1c886bdab3fe09d8a4b  
        7a27a63bff255c0f026d62ed76d7fa22907204596907120d3f1436145217f1d1ca70dfc1ba555bed1101d6c  
        f679cc2d875dbc6d41553022200294f0d5383397a489bd17433c0f872ed9e0e3e505fff3323a019060b268  
        d713a98764ab169262c46639522b6f64cacc9a75577de6b84b408fc570464f161eae15de637852ee41e9a1  
        f1b9e6269cd568333ddd56dfd6b729d08980412f165b25b3b51cc6307be29695c8ccb291de70c6ebc7ff55  
        36cb5923ff184e7acb4977fc827b9801557fe283e8c7ee3b391480c1d07b007039d33a726bcc0da6d4c37c  
        9fa0a16685e9ddd0ff7929400e4b80e72d0cb143b761f30b62dede6e7ec94fe0da8d811ee2659d3795ceb1  
        575d2b2bc9930b16d9f11f873e2b06841daf7e47710ab2d83e9bf002898c236bd77c6c9bb2d4b0191c4f64  
        9e8f643ff905993ece55d9bbf3e147b1cda0aa652d2a8fec9b5a2cc042bd4966d81c84473ab23d21c912561  
        a6165a41916a476e3ab38c53855db33eef4e9429bb951199e243a40099adbdf23dae7e1d79b9858a37e1f  
        67b607fd83cce6efc05e8a7f06312b558d14d31b9dc2dae32ede1c5bee8b3314ad4e6eb229321132567e01  
        62bf21c37244c8dadfe9000626c948b6705480cf6e4c217290fa01e906b160a06ad7f71f78587",  
    "__v" : 0  
}
```

Collection 2 : Products

```
{  
    "_id" : ObjectId("6199ad870ffc1001dab3cb17"),  
    "Name" : "DOZEN CUPCAKES",  
    "Price" : "32",  
    "Category" : "Cupcake",  
    "image" : "product-1.jpg",
```

```
        "qty" : 23,
        "flag" : "1",
        "description" : "This delectable Strawberry Pie is an extraordinary treat filled with sweet and tasty
chunks of delicious strawberries. Made with the freshest ingredients, one bite will send you to
summertime."
    }
```

Collection 3 : Cart

```
{
    "_id" : ObjectId("61a708c5d78f0d3fd01cbd7f"),
    "userId" : "61a708bab925393c9b90cc26",
    "products" : [
        {
            "productId" : "6199ad870ffc1001dab3cb17",
            "quantity" : "1",
            "name" : "DOZEN CUPCAKES",
            "price" : "32"
        },
        {
            "productId" : "6199b5f10ffc1001dab3cdc8",
            "quantity" : "1",
            "name" : "CHOCOLATE",
            "price" : "25"
        }
    ]
}
```

Collection 4 : Order History

```
/* 1 */
{
    "_id" : ObjectId("61ac08fab620d25e68d7539a"),
    "userId" : "61ac0821e9b3c297d6edf2c4",
    "orders" : [
        {
            "orderId" : "61ac0821e9b3c297d6edf2c4Sat Dec 04 2021 18:34:02 GMT-0600 (Central Standard
Time)",
            "orderOn" : ISODate("2021-12-05T00:34:02.470Z"),
            "products" : [
                {
                    "productId" : "6199ad870ffc1001dab3cb17",
                    "quantity" : "1",
                    "name" : "DOZEN CUPCAKES",
                    "price" : "32"
                }
            ]
        }
    ]
}
```

```

        ],
    },
    {
        "orderId" : "61ac0821e9b3c297d6edf2c4Sat Dec 04 2021 18:36:44 GMT-0600 (Central Standard
Time)",
        "orderOn" : ISODate("2021-12-05T00:36:44.718Z"),
        "products" : [
            {
                "productId" : "6199ad870ffc1001dab3cb17",
                "quantity" : 1,
                "name" : "DOZEN CUPCAKES",
                "price" : "32"
            }
        ]
    },
    {
        "orderId" : "61ac0821e9b3c297d6edf2c4Sat Dec 04 2021 18:57:36 GMT-0600 (Central Standard
Time)",
        "orderOn" : ISODate("2021-12-05T00:57:36.078Z"),
        "products" : [
            {
                "productId" : "6199d8f70ffc1001dab3d2b4",
                "quantity" : 1,
                "name" : "DULCE DE LECHE",
                "price" : "40"
            }
        ]
    }
]
}

```

Assumptions :

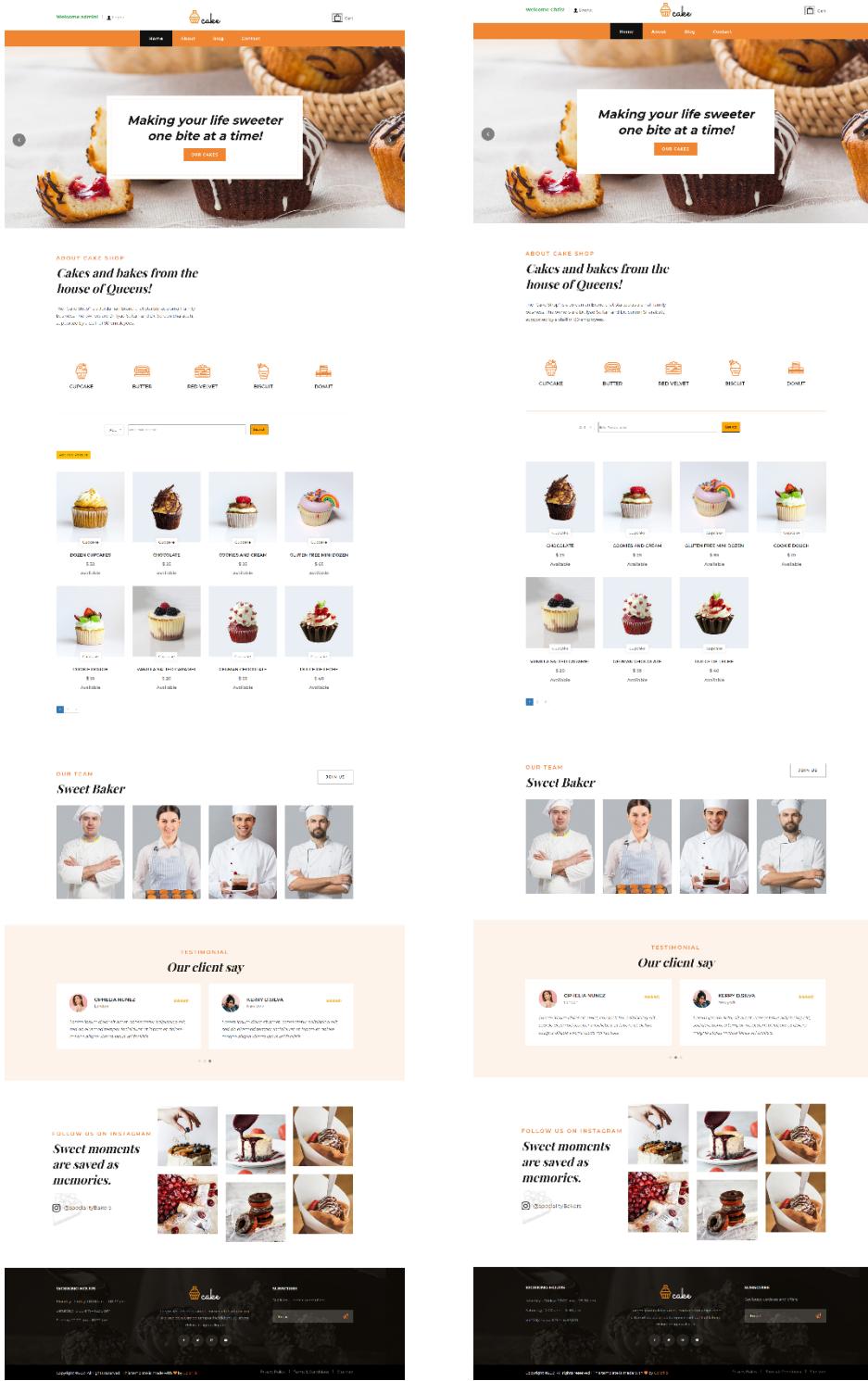
- For the update cart module, we have included the functionality to update the product while adding a product to the cart. So, if the user wants to update the quantity of the product, he can do it on the product details page, which will update the quantity of the product in the cart.

Screenshots of the Project :

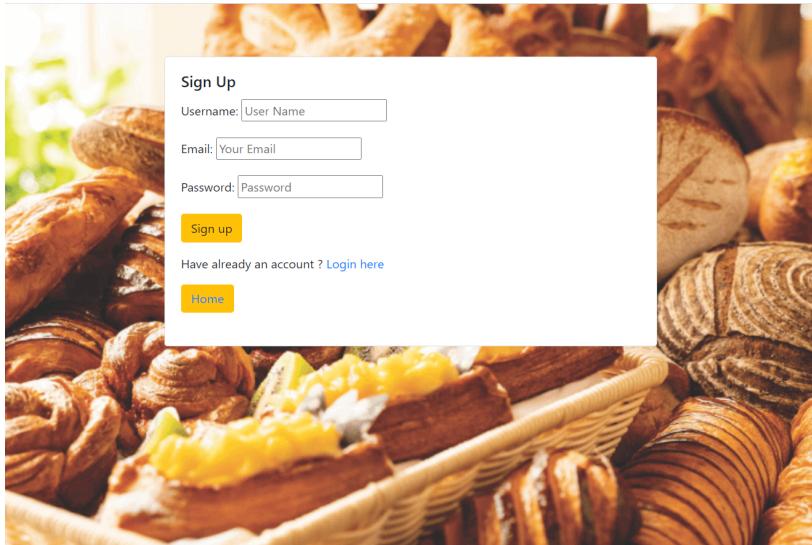
a.Home Page :

Admin

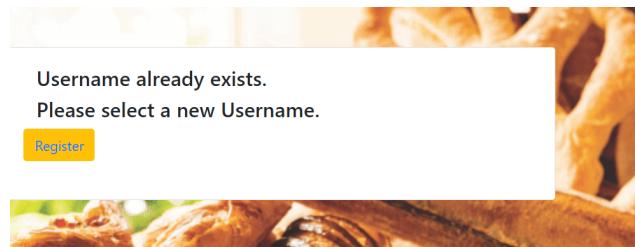
User:



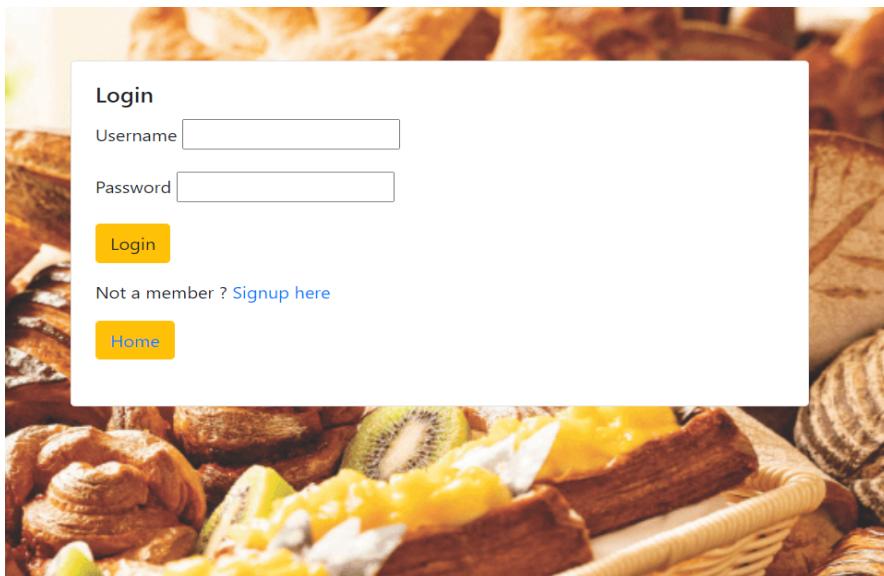
b.Sign Up Page:



Already registered:



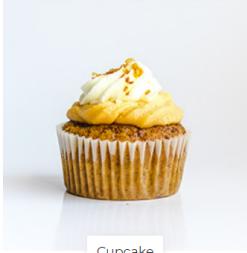
c.Login Page :

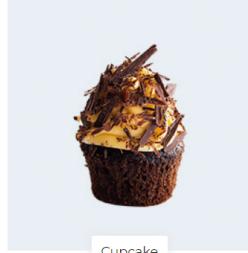


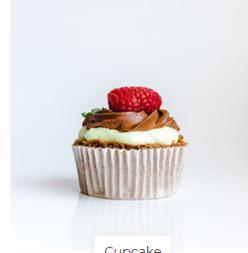
d.Search and Filter Products

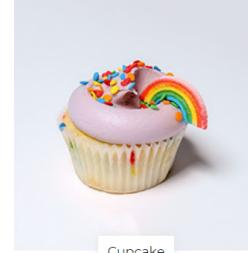
ALL

Search


Cupcake


Cupcake


Cupcake


Cupcake

DOZEN CUPCAKES
\$ 32
Available

CHOCOLATE
\$ 25
Available

COOKIES AND CREAM
\$ 25
Available

GLUTEN FREE MINI DOZEN
\$ 65
Available

e. Pagination :


Cupcake


Cupcake

COOKIE DOUGH
\$ 10
Available

VANILLA SALTED CARAMEL
\$ 20
Available

1

2

3

User:

f.View Product Details :

Product detail

The product detail page features a large image of a cupcake with white frosting, red strawberries, and mint leaves. To the right, the product name "DULCE DE LECHE" is displayed in bold capital letters, with a small "Cupcake" tag above it. Below the name, the price "\$40" is shown. A section for "Available Quantity : 40" is present. A detailed description follows: "This delectable Strawberry Pie is an extraordinary treat filled with sweet and tasty chunks of delicious strawberries. Made with the freshest ingredients, one bite will send you to summertime." The category "Cupcake" is listed, along with a quantity selector (minus, plus, and a value of 1) and an "ADD TO CART" button.

g.Cart Page :

The shopping cart page has a header with the logo "cake" and navigation links for Home, About, Shop (which is active), Pages, Blog, and Contact. The main content area is titled "Shopping cart" and shows a single item: "COOKIES AND CREAM" at \$25, quantity 1. There is a "CONTINUE SHOPPING" button. On the right, a "CART TOTAL" summary shows Subtotal \$25, Taxes \$2.45, and Total \$27.45. A "PROCEED TO CHECKOUT" button is at the bottom. A "DISCOUNT CODES" input field with an "APPLY" button is also present.

The footer section includes "WORKING HOURS" with times for Monday through Sunday. It features the "cake" logo, social media icons for Facebook, Twitter, Instagram, and YouTube, and a "SUBSCRIBE" form with an "Email" input field and a "Subscribe" button. A copyright notice at the bottom states: "Copyright ©2021 All rights reserved | This template is made with ❤ by Colorlib".

h.Checkout Page :

The screenshot shows a successful order confirmation page. At the top, there's a navigation bar with links for Home, About, Blog, and Contact. The main message is "Your Order is Successfully Placed !!". Below this, a table details the purchase: a single item, Cookies and Cream, at \$25 per item, totaling \$25. To the right, a summary box shows the Cart Total with Subtotal (\$25), Taxes (\$2.45), and a Total of \$27.45. Buttons for "CONTINUE SHOPPING" and "View Order History" are present.

PRODUCT	PRICE PER ITEM	QUANTITY	TOTAL
COOKIES AND CREAM	\$25	1	\$25

CART TOTAL

Subtotal	\$ 25
Taxes	\$ 2.45
Total	\$ 27.45

The footer section includes working hours (Monday-Friday 08:00 am - 08:30 pm, Saturday 10:00 am - 16:30 pm, Sunday 10:00 am - 16:30 pm), a logo with the word "cake", a social media link, a copyright notice (Copyright ©2021 All rights reserved | This template is made with ❤ by Colorlib), and a subscribe form with fields for Email and a newsletter icon.

WORKING HOURS

Monday - Friday: 08:00 am – 08:30 pm
Saturday: 10:00 am – 16:30 pm
Sunday: 10:00 am – 16:30 pm

SUBSCRIBE

Get latest updates and offers.

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i. Order History :



Home | About | Blog | Contact

Order History | Home | Shipping

Order ID: #Bac0025fb5c23796ec0f2c45d1 Date: 04/20/2021 10:00:00 GMT-0600 [Central Standard Time]

Product	Price per item	Quantity	Total
COCO CHOCOLATE	\$ 32	1	\$ 32

Total (including Taxes): \$ 32.00

Order ID: #Bac0025fb5c23796ec0f2c45d1 Date: 04/20/2021 10:00:00 GMT-0600 [Central Standard Time]

Product	Price per item	Quantity	Total
COOKIES AND CREAM	\$ 25	1	\$ 25

Total (including Taxes): \$ 34.45

Order ID: #Bac0025fb5c23796ec0f2c45d1 Date: 04/20/2021 10:00:00 GMT-0600 [Central Standard Time]

Product	Price per item	Quantity	Total
COOKIES AND CREAM	\$ 25	1	\$ 25

Total (including Taxes): \$ 34.45

Order ID: #Bac0025fb5c23796ec0f2c45d1 Date: 04/20/2021 10:00:00 GMT-0600 [Central Standard Time]

Product	Price per item	Quantity	Total
CHOCOLATE	\$ 25	1	\$ 25

Total (including Taxes): \$ 27.45

Order ID: #Bac0025fb5c23796ec0f2c45d1 Date: 04/20/2021 10:00:00 GMT-0600 [Central Standard Time]

Product	Price per item	Quantity	Total
CHOCOLATE	\$ 25	1	\$ 25

Total (including Taxes): \$ 27.45

Order ID: #Bac0025fb5c23796ec0f2c45d1 Date: 04/20/2021 10:00:00 GMT-0600 [Central Standard Time]

Product	Price per item	Quantity	Total
CHOCOLATE	\$ 25	1	\$ 25

Total (including Taxes): \$ 27.45

Order ID: #Bac0025fb5c23796ec0f2c45d1 Date: 04/20/2021 10:00:00 GMT-0600 [Central Standard Time]

Product	Price per item	Quantity	Total
COOKIES AND CREAM	\$ 25	1	\$ 25

Total (including Taxes): \$ 27.45

Order ID: #Bac0025fb5c23796ec0f2c45d1 Date: 04/20/2021 10:00:00 GMT-0600 [Central Standard Time]

Product	Price per item	Quantity	Total
COOKIES AND CREAM	\$ 25	1	\$ 25

Total (including Taxes): \$ 27.45

Order ID: #Bac0025fb5c23796ec0f2c45d1 Date: 04/20/2021 10:00:00 GMT-0600 [Central Standard Time]

Product	Price per item	Quantity	Total
COOKIES AND CREAM	\$ 25	1	\$ 25

Total (including Taxes): \$ 27.45

Order ID: #Bac0025fb5c23796ec0f2c45d1 Date: 04/20/2021 10:00:00 GMT-0600 [Central Standard Time]

Product	Price per item	Quantity	Total
COOKIES AND CREAM	\$ 25	1	\$ 25

Total (including Taxes): \$ 27.45

Order ID: #Bac0025fb5c23796ec0f2c45d1 Date: 04/20/2021 10:00:00 GMT-0600 [Central Standard Time]

Product	Price per item	Quantity	Total
COOKIES AND CREAM	\$ 25	1	\$ 25

Total (including Taxes): \$ 27.45

Order ID: #Bac0025fb5c23796ec0f2c45d1 Date: 04/20/2021 10:00:00 GMT-0600 [Central Standard Time]

Product	Price per item	Quantity	Total
COOKIES AND CREAM	\$ 25	1	\$ 25

Total (including Taxes): \$ 27.45

CONTINUE SHOPPING

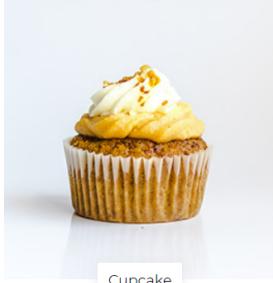


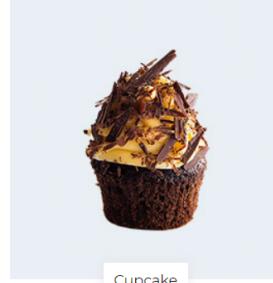
Admin:

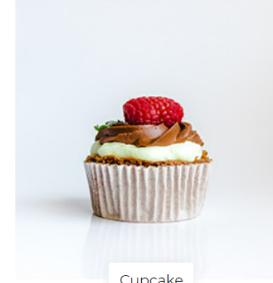
j.Admin – Add a new Product page :

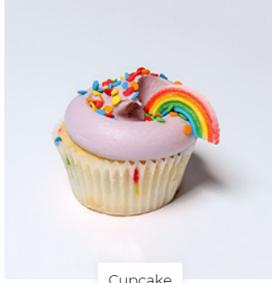
ALLSearch

[Add new Product](#)


Cupcake
DOZEN CUPCAKES
\$ 32
Out of Stock


Cupcake
CHOCOLATE
\$ 25
Available


Cupcake
COOKIES AND CREAM
\$ 25
Available


Cupcake
GLUTEN FREE MINI DOZEN
\$ 65
Available

New Product

No file chosen
required

Save
Cancel

k.Admin : Update and Delete Product :



Cupcake

CHOCOLATE

Price : \$25

Available Quantity : 27

This delectable Strawberry Pie is an extraordinary treat filled with sweet and tasty chunks of delicious strawberries. Made with the freshest ingredients, one bite will send you to summertime.

Category: Cupcake

EDIT ITEM

DELETE ITEM

I.Admin : Update/Edit existing product

Edit Product Details

CHOCOLATE

Cupcake

25

27

1

product-2.jpg

Choose File | No file chosen

description

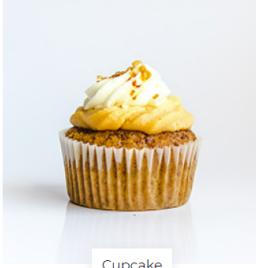
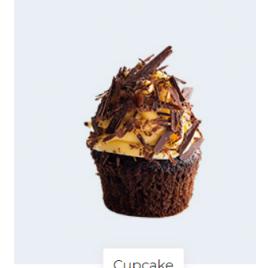
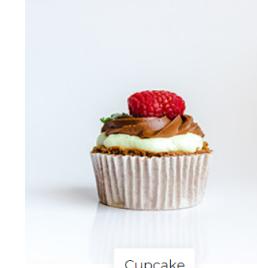
Save

[Cancel](#)

I. Soft Delete Product :

Out of stock indicates that the product is soft – deleted from the system. The admin is able to see those products while the end user is not able to see the products. These products are not available for the user purchase but their information persists in the database.

Add new Product

 Cupcake	 Cupcake	 Cupcake	 Cupcake
DOZEN CUPCAKES \$ 32 Out of Stock	CHOCOLATE \$ 25 Available	COOKIES AND CREAM \$ 25 Available	GLUTEN FREE MINI DOZEN \$ 65 Available

Video Link: https://youtu.be/_6vE6xbp0vA