

Project Title: Italian Restaurant Website

Name for the Website: Mamamia

Description:

Mamamia is an Italian restaurant site that shows menu items in both lists and grid view. It has the following features:

1. Signup and Login feature with Validation checks.
2. List available items.
3. Pagination feature with 9 items showing on each page.
4. The site has the ability to search items and filter on categories, both search and filter are integrated together and have pagination as well.
5. A user can add a menu item to the shopping cart, update or delete an item in the cart, and do checkout by entering the address information.
6. Show history of purchases.
7. Admin CRUD operations with pagination and ability to delete and restore items.

Database Design:

MongoDB is used to store this website's data. There are 4 collections:

1. Users

For users, only email id, password, and isAdmin fields are stored in the collection.

Data Model: Example

```
{
  "_id":{"$_id":"60863e073eab48dcc0595cce"},
  "email":"admin1@mamamia.com",
  "password":"$2b$12$K9amtF8KmlOcCdw4uKn9uSWXO11iJeIR8M1tQGjM7PKjg38TS
  djm",
  "isAdmin":true
}
```

2. Menu

Name, category, description, price, image, isAvailable

Data Model: Example

```
{
  "_id":{"$_id":"6086052101a2f61338e4d38b"},
  "name":"Calamari Fritté",
  "category":"Appetizer",
  "description":" Fried squid with Marinara Sauce",
  "Price":"14.99",
  "Image":"6086052101a2f61338e4d38b.webp",
  "isAvailable":false
}
```

3. Cart

For each user an object is created in the carts collection with the following fields:

Email, items, subtotal, tax, total

Data Model: Example

```
{
  "_id":{"$_oid":"608dcb08dda08b5362e59f88"},
  "email":"anshul.pardhi@gmail.com",
  "Items":[
    {
      "name":"Calamari Fritté",
      "category":"Appetizer",
      "description":" Fried squid with Marinara Sauce",
      "Price":"14.99",
      "Image":"6086052101a2f61338e4d38b.webp",
      "isAvailable":true,
      "Quantity":"2",
      "Id":"6086052101a2f61338e4d38b"
    },
    {
      "name":"Mozzarella Marinara",
      "category":"Appetizer",
      "description":" Breaded Mozzarella & Marinara Sauce",
      "Price":"8.99",
      "Image":"6086056d01a2f61338e4d38c.webp",
      "isAvailable":true,
      "Quantity":"1",
      "Id":"6086056d01a2f61338e4d38c"
    }
  ],
  "Total":"44.82",
  "Subtotal":"38.97",
  "Tax":"5.85"
}
```

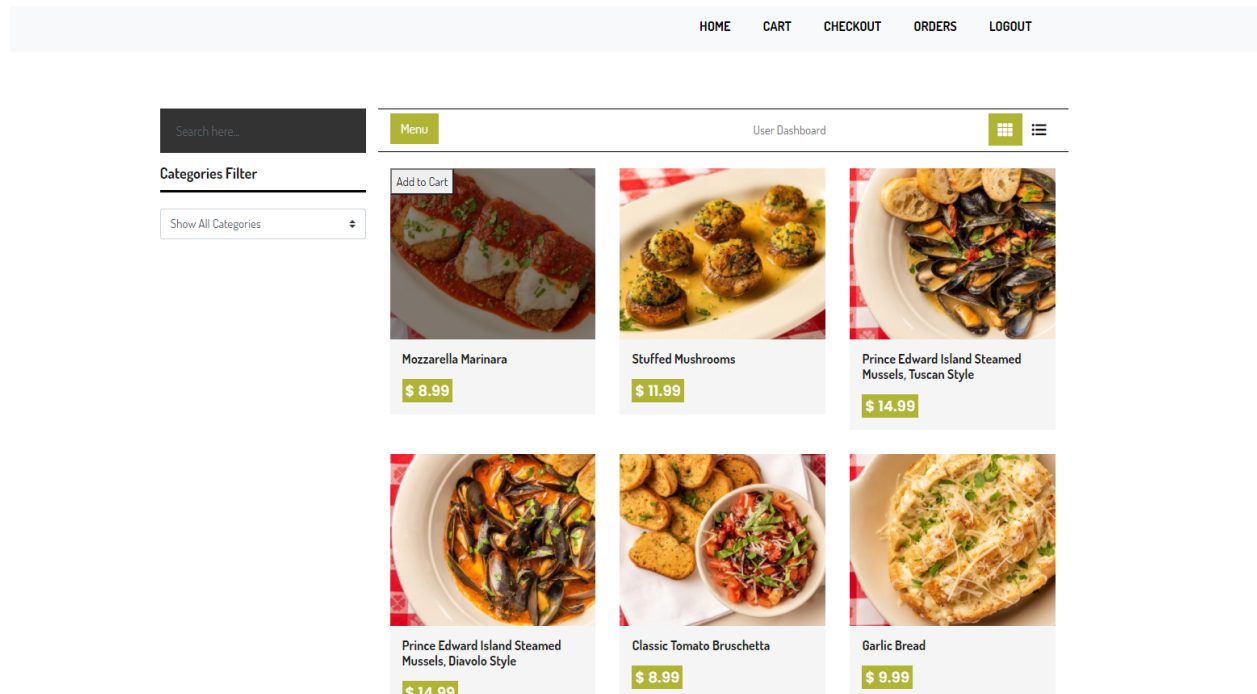
4. Orders

Email, an array of orders, each orders object contains: cart, address, date

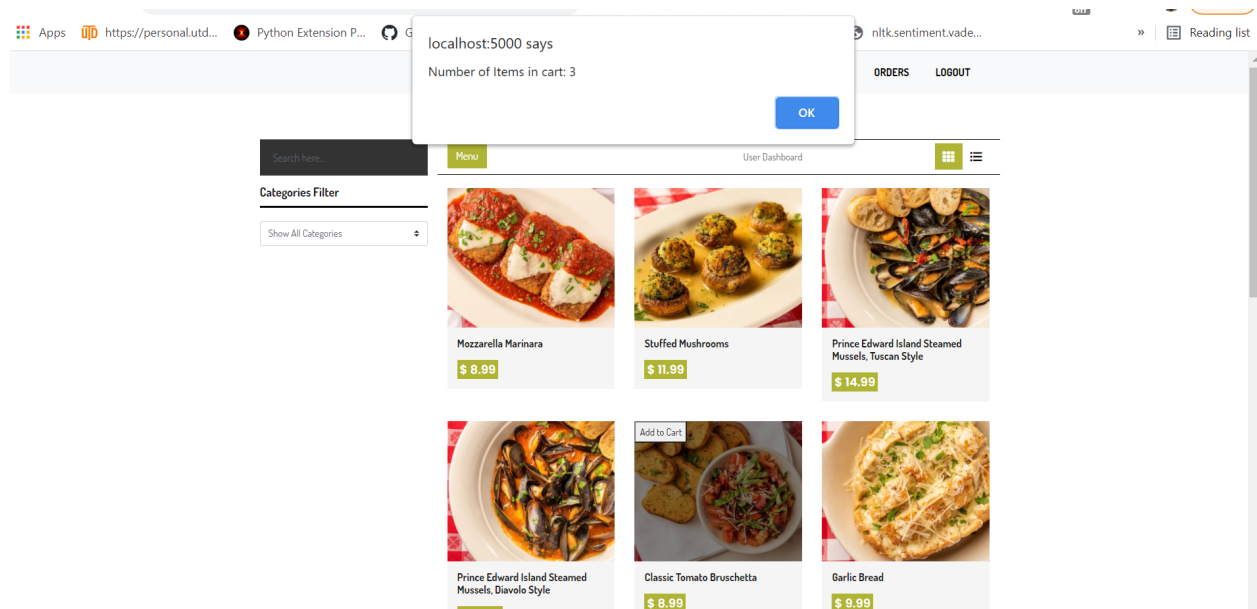
Data Model: Example

```
{
  "_id":{"$_oid":"608dd27c34f5771c33c9ba3f"},
  "email":"user1@user.com",
  "Orders":[
    {
      "Cart":
      {
        "_id":"608dd27c34f5771c33c9ba3e",
        "email":"user1@user.com",
        "Items":[
          {
            "category":"Salad",
            "description":"Grated Parmesan & Garlic Croutons",
            "id":"608607f301a2f61338e4d395",
            "image":"608607f301a2f61338e4d395.webp",
            "isAvailable":true,
            "name":"Caesar Salad",
            "price":"5.99",
            "quantity":"2"
          }
        ]
      }
    }
  ]
}
```


User Dashboard



Add to Cart functionality:



Cart feature:

HOME

CART

CHECKOUT

ORDERS

LOGOUT

S.No.	Product Name	Price	Quantity	Total	Remove
1	Prince Edward Island Steamed Mussels, Tuscan Style	14.99	<input type="text" value="1"/>	14.99	<input type="button" value="x"/>
2	Classic Tomato Bruschetta	8.99	<input type="text" value="1"/>	8.99	<input type="button" value="x"/>
3	Stuffed Mushrooms	11.99	<input type="text" value="2"/>	23.98	<input type="button" value="x"/>

UPDATE CART

Order summary

Sub Total

\$47.96

Tax

\$7.19

Grand Total

\$55.15

Checkout

Checkout feature:

HOME

CART

CHECKOUT

ORDERS

LOGOUT

Shipping address

Address *

Address 2

City *

Country *

United States

▼

State *

Texas

▼

Zip *

Your order

Sub Total

\$47.96

Tax

\$7.19

Grand Total

\$55.15

Place Order

Users Collection has hashed passwords:

```
_id: ObjectId("60863e073eab48dcc0595cce")
email: "admin1@mamamia.com"
password: "$2b$12$K9amtF8KmIOcCdwC4uKn9uSwXO11iJe1R8M1tQGjM7PKjg38TSdjm"
isAdmin: true
```

>

```
_id: ObjectId("6086436f6eb8f4b3e9e470e7")
email: "anshul.pardhi@gmail.com"
password: "$2b$12$TiHia0/QN6kNsHpdTswMF0i/AB28CF3vsFsrQ./UImeAFvVR.cCUC"
isAdmin: false
```

```
_id: ObjectId("608dd27c34f5771c33c9ba3d")
email: "user1@user.com"
password: "$2b$12$9B4rnzX3Dq2vEw190BKwd.7AZBotzHUSmPT9.jNdk97T1F1i50MwW"
isAdmin: false
```

View Order Details:

Order Id

View Order

Order

1

View Order

05/

2

View Order

05/

3

View Order

05/

4

View Order

05/

Order Details

S.No.	Product Name	Price	Quantity	Total
1	Prince Edward Island Steamed Mussels, Tuscan Style	14.99	1	14.99
2	Classic Tomato Bruschetta	8.99	1	8.99
3	Stuffed Mushrooms	11.99	2	23.98

Order summary

Sub Total

\$47.96

Tax

\$7.19

Grand Total

\$55.15

Close

Business Time

Monday - Friday: 08.00am to 05.00pm

Saturday: 10.00am to 08.00pm

Sunday: Closed

Media

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ABOUT FRESHSHOP

INFORMATION

CONTACT US

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat.

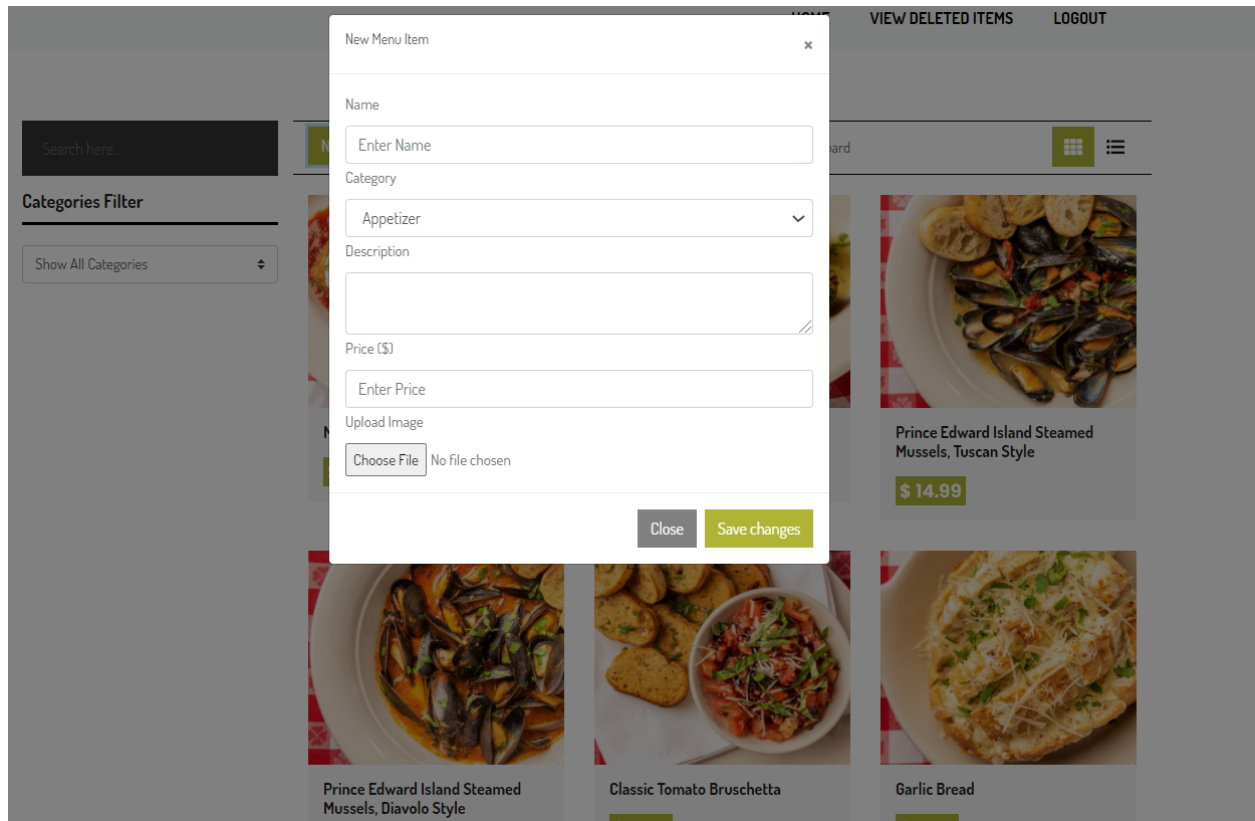
About Us

Address: Michael L.Days 3756

Resident Street 6438

Admin Operations:

Create :



The screenshot displays a web application interface for managing a menu. A modal window titled "New Menu Item" is open, allowing for the creation of a new menu item. The modal contains the following fields and controls:

- Name:** A text input field with the placeholder "Enter Name".
- Category:** A dropdown menu currently set to "Appetizer".
- Description:** A text area for entering the item's description.
- Price (\$):** A text input field with the placeholder "Enter Price".
- Upload Image:** A button labeled "Choose File" next to the text "No file chosen".
- Actions:** "Close" and "Save changes" buttons at the bottom right of the modal.

The background shows a menu page with a search bar, a "Categories Filter" section, and a grid of menu items. Visible items include:

- Prince Edward Island Steamed Mussels, Diavolo Style (Price: \$14.99)
- Classic Tomato Bruschetta (Price: \$12.99)
- Garlic Bread (Price: \$3.99)

Update:

VIEW DELETED ITEMS

LOGOUT

Search here...

Categories Filter

Show All Categories

Edit Menu Item

Name

Classic Tomato Bruschetta

Category

Appetizer

Description

Fresh Tomatoes, Basil, Balsamic Vinegar, Roasted Garlic

Price (\$)

8.99

Upload Image

Choose File

No file chosen

Close

Save changes

Prince Edward Island Steamed Mussels, Diavolo Style

\$ 14.99

Classic Tomato Bruschetta

\$ 8.99

Garlic Bread

\$ 9.99

Delete/Restore Item:

HOME

VIEW DELETED ITEMS

LOGOUT

Search here...

Categories Filter

Show All Categories

View Deleted Items

Calamari Frittè

\$ 14.99

Crispy Zucchini Frittè

\$ 9.99

Prince Edward Island Steamed Mussels, Tuscan Style

\$ 14.99

Restore Item

1

Team Members:

Gunjan Agicha (gxa190010)

Anshul Pardhi (arp180012)

Kushagra Dar (kxd180025)

Work division:**1. Database Design:**

Kushagra: Created the MongoDB cluster on MongoDB Atlas. Also created cart and order collection.

Anshul: Created menu collection and added 62 items in the menu with all the fields.

Gunjan: Created users collection.

All three were involved in discussing what collections are needed for the website and the initial design.

2. Server-side and client-side scripting:

- **Signup and login feature**

Kushagra: Created login and signup HTML pages and added validation checks to it. Created the Flask API and AJAX call for it.

Gunjan: Contributed to password hashing before storing it in the database.

Anshul: Found out the templates that could serve as the base to our site.

- **List available items:**

Anshul created the AJAX get request and handled the user dashboard and admin dashboard list and grid view functionality.

- **Pagination:** Anshul added pagination to the user dashboard and admin dashboard.

- **Search and filter:**

Gunjan: created API for search and filter and changed the UI in the user dashboard and admin dashboard pages to show the categories and search field.

Also requested the API via AJAX call for both search and filter and linked the response to the list and grid view in userdashboard.js and admindashboard.js

Anshul: Helped in search and filter API, and added the pagination functionality to the results from search and filter API.

- **Add to the shopping cart, checkout and orders:**

Kushagra: Created the cart, checkout, and orders pages. Created the API for it and did an AJAX call to get the response and reflect on these pages.

- **Admin CRUD Operations:**

Anshul created the CRUD API's for the admin on the server side and consumed it on the client side using AJAX and JS.