2025SpringSoftDevProject

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GitHub Repository

Overview of Project:

Work in a team of four students and create a website for a fake restaurant. We needed to create functional features using front-end and back-end technologies to meet a set of requirements made by AI

Requirements Made by ChatGPT:

Details for the Website Project:

1. Overview Page:

About Us:

The Copper Fork began with a vision to transform the familiar comfort food we all love into culinary masterpieces. We believe in using fresh, locally-sourced ingredients and innovative techniques to create memorable dining experiences.

Mission Statement:

"To serve heartfelt, handcrafted dishes that celebrate comfort and creativity."

2. Menu Categories:

Appetizers: Truffle mac and cheese bites, maple-bacon brussels sprouts.

Main Courses:

Herb-crusted chicken pot pie.

Bourbon-glazed meatloaf with smoked mashed potatoes.

Vegan wild mushroom risotto.

Desserts: Molten chocolate lava cake, spiced apple crumble with vanilla bean ice cream.

Drinks: Handcrafted cocktails, local craft beers, and mocktails.

3. Features:

Online ordering system (with options for takeout/delivery).

Reservation booking tool.

Daily specials & seasonal menus.

Loyalty program for repeat customers.

4. Visual Identity:

Color Palette: Warm copper tones, earthy greens, creamy whites.

Logo: A simple fork silhouette with a copper gradient.

Font: Elegant serif for headers, clean sans-serif for body text.

5. Additional Website Pages:

Gallery: Photos of signature dishes, interior design, and staff.

Events: Special tasting nights, cooking classes, and seasonal celebrations.

Contact Us: Address, phone number, hours of operation, and an embedded Google Map.

6. Social Media Integration:

Instagram feed showcasing dishes and behind-the-scenes content.

Links to Facebook, Twitter, and TikTok for updates and promotions.

7. Mock Location:

1234 Main Street, Riverdale, USA.

8. Mock Contact Information:

Phone: (555) 987-6543

Email: hello@thecopperfork.com

Link to prompt

User Stories grouped by key features:

Customer-Facing Features

1. Restaurant Information and Menu

1. **As a customer,** I want to view the restaurant's contact information, operating hours, and location so I can easily reach or visit the restaurant.
2. **As a customer,** I want to browse the menu with detailed descriptions and images of dishes so I can decide what to order.
3. **As a customer,** I want to add items to cart and successfully place an order.

2. Reservation System

1. **As a customer,** I want to check table availability for a specific date and time so I can plan my visit accordingly.
2. **As a customer,** I want to book a table online and receive a confirmation so I can avoid waiting when I arrive.

3. Catering System

1. **As a customer,** I want to book a catering service for an event of my choosing with menu options available.

2. **As a customer,** I want to receive a confirmation so I can ensure the catering service is set.

Staff and Manager Features

1. Menu and Inventory Management

1. **As a manager,** I want to update the menu with new items or prices so the menu is always accurate.
2. **As a manager,** I want to track inventory levels and receive alerts for low-stock items so I can prevent shortages.

2. Scheduling and Employment Management

1. **As a staff member,** I want to view my work schedule so I know when I am expected to work.
2. **As a manager,** I want to assign shifts and notify staff of changes so I can ensure proper staffing at all times.

3. Table Management

1. **As a staff member,** I want to view current table assignments and reservations so I can efficiently manage seating.
2. **As a manager,** I want to adjust table layouts and availability in real-time to accommodate varying customer demands.

Admin Features

1. Staff and Sale Management

1. **As an admin,** I want to manage user roles and permissions (e.g., customer, staff, manager) so each user has access to the appropriate features.

Impact of Project

1. Create an overall clean and functional UI/UX for users to navigate a restaurant website.
2. Take client requirements generated by ChatGPT and implement as many as we can using the time given.
3. Work as a team in a Scrum like developemnt cycle to work on seperate pieces of the website and then implement them all together.

Project Architecture.

Web App

1. We will be using what we learned in WebApps. HTML, CSS and JavaScript to build the Web App
2. **Tools/Software we will use: JS, host on Render**

Database

1. needed for accounts (User, Employee, Supervisor)
2. menu items
3. **Tools/Software we will use: MongoDB**

Getting started.

1. Open a terminal to where you would like to save the project
2. input the following commands

Cloning The repo

git clone https://github.com/2025SpringSoftwareDev/2025SpringSoftDevProject.git

Navigate to the project folder

cd 2025SpringSoftDevProject

1. install node.js.
2. troubleshoot any issues that arise with installation.
3. use command npm install to install all dependences from package.json
4. use command npm start to host the webapp locally
5. use a browser access the web app at http://localhost:3000/
6. use ctrl + c to kill the process in the terminal

Branches

1. We can use branches to develop features then merge the branch to main once the feature is completed.
2. This allows us to reduce merge conflicts and avoid convoluting the main branch's comment history.

Creating a new branch.

git checkout -b <branch-name>

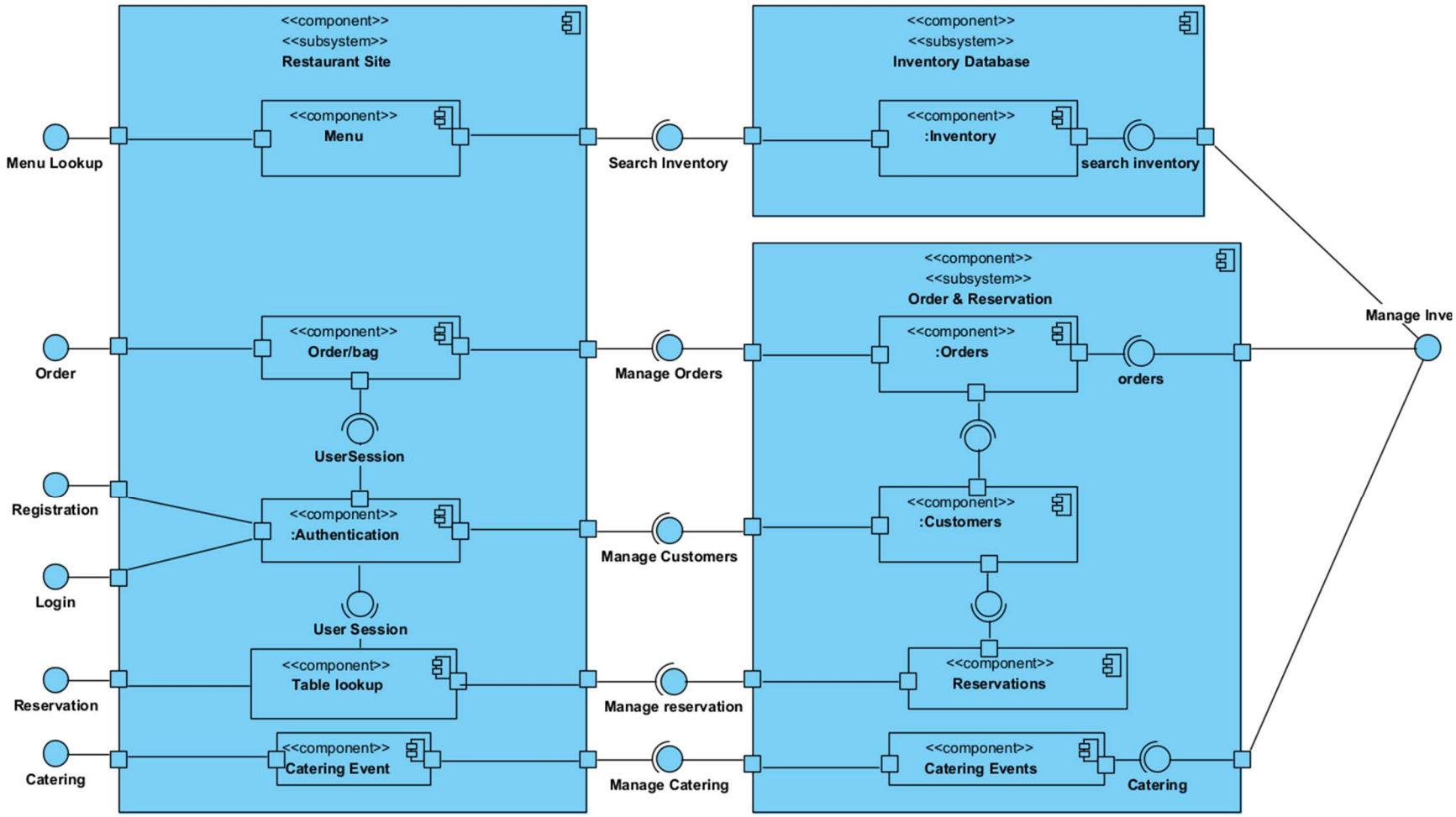
Changing a branch.

git checkout <branch-name>

Creating a pull request.

1. Ensure you pushed and tested all changes
2. Go to the GitHub repo page and click "Pull request"
3. Select your branch as the source and the main branch as the destination
4. Fill out the info and submit the pull request.
5. Since we don't have any live features or customers you can just accept the pull request yourself without peer review. If you break anything o well there is no collateral to be had.

UML Diagram


<<component>>
<<subsystem>>
Restaurant Site
<<component>>
Menu
Menu Lookup
Search Inventory
<<component>>
<<subsystem>>
Inventory Database
<<component>>
:Inventory
search inventory
<<component>>
<<subsystem>>
Order & Reservation
Manage Inve
Order
<<component>>
Order/bag
Manage Orders
<<component>>
:Orders
orders
UserSession
Registration
<<component>>
:Authentication
Manage Customers
<<component>>
:Customers
Login
User Session
Reservation
<<component>>
Table lookup
Manage reservation
<<component>>
Reservations
Catering
<<component>>
Catering Event
Manage Catering
<<component>>
Catering Events
Catering

Screenshots of Project

The Copper Fork

MENU RESERVATIONS CATERING CART 0 LOGIN

Appetizers

Chips and Salsa

$6.99 Add to Bag

Bone-In Buffalo Wings

$9.99 Add to Bag

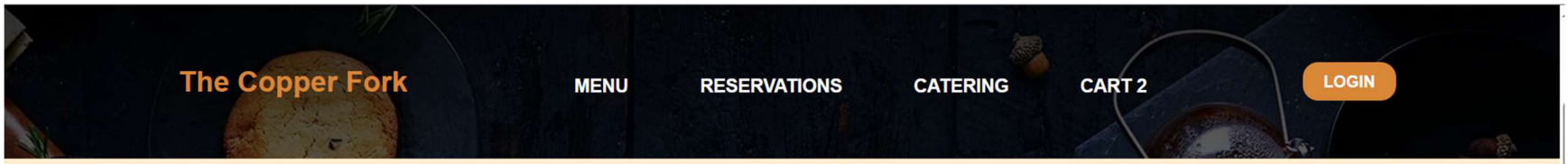
Onion Rings

$8.99 Add to Bag

Fried Mozzarela

$8.99 Add to Bag

Entrees



Bone-In Buffalo Wings

Price: $9.99

Quantity: - 1 +

Total: $9.99 Remove

Fried Chicken Dinner

Price: $14.99

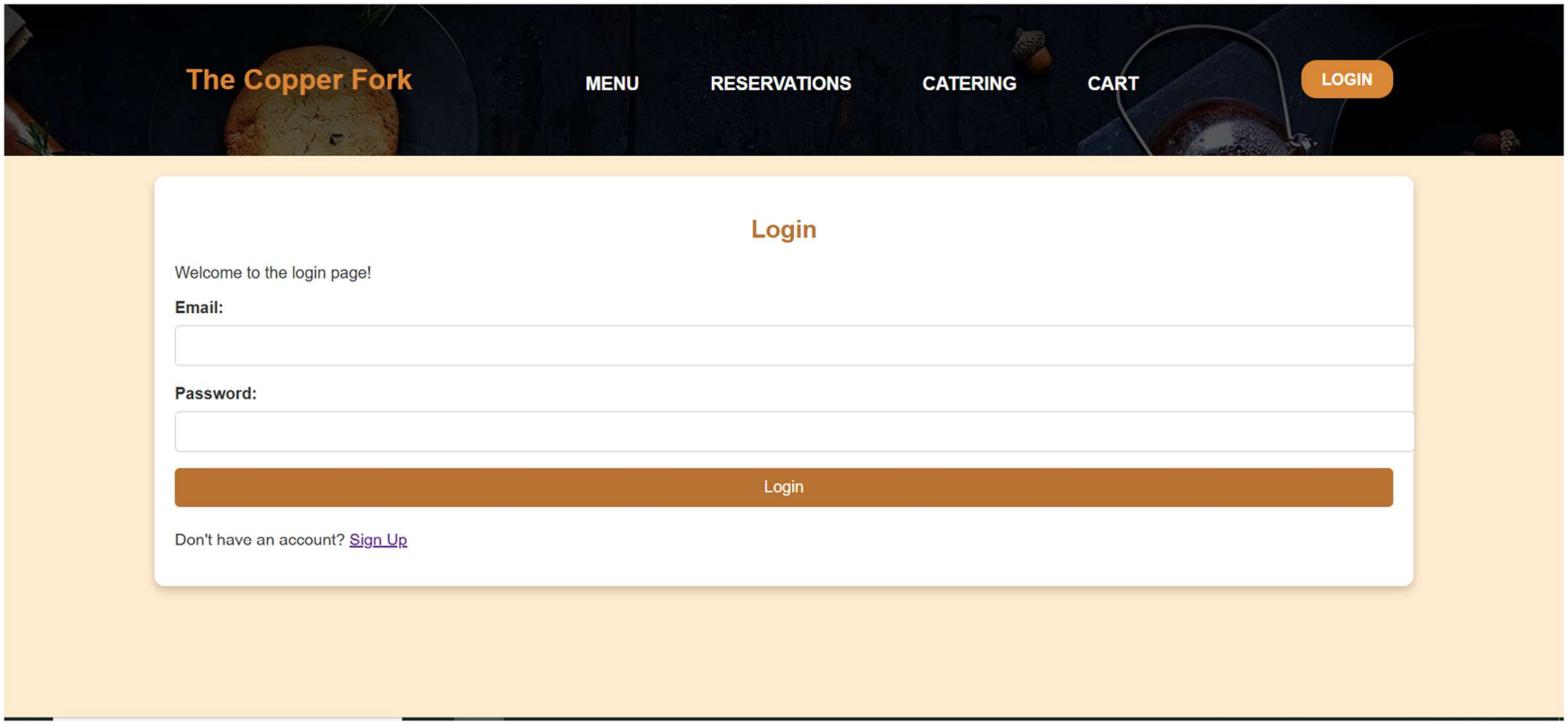
Quantity: - 1 +

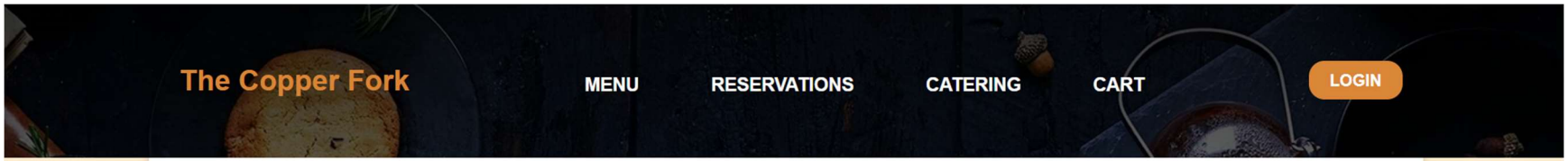
Total: $14.99 Remove

Total:24.98

Clear cart

Purchase


The Copper Fork
MENU
RESERVATIONS
CATERING
CART
LOGIN
Login
Welcome to the login page!
Email:
Password:
Login
Don't have an account? Sign Up



Date of Event:

mm/dd/yyyy --:-- --

Where is the Event:

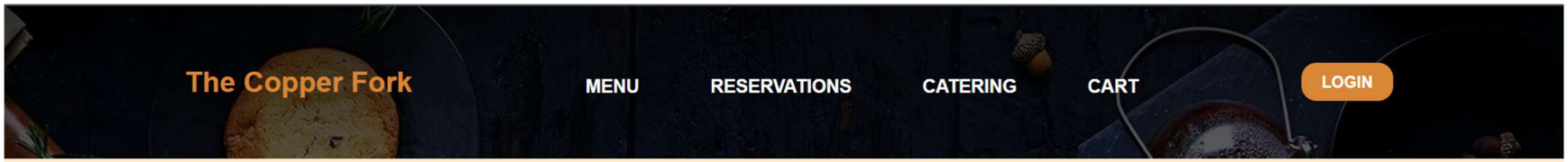
Desired Menu Options

Fried Chicken

Special Instructions

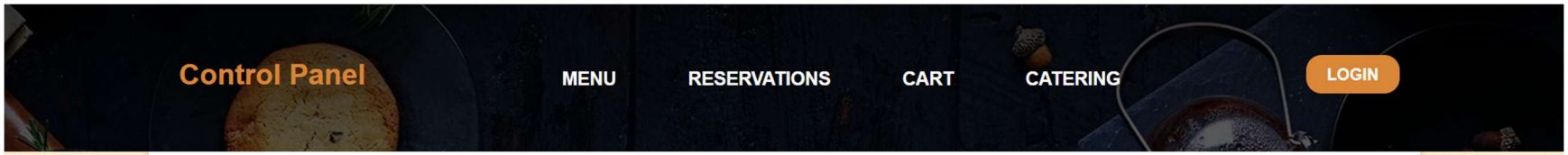
Full Name

Email:



Control Panel

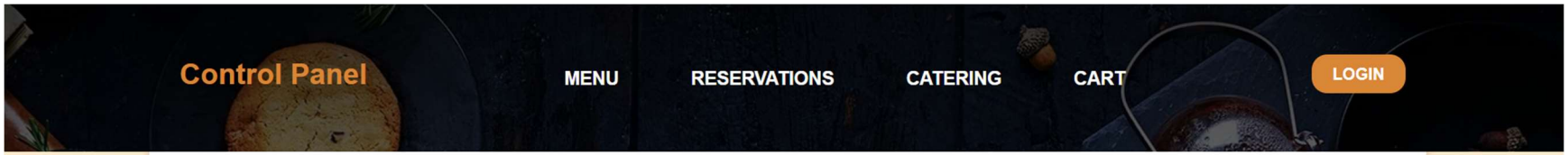
Manage Accounts | Manage Menu | Manage Reservation | Manage Orders



Admin Panel - User Management

Name	Email	Role	Actions
Joe Bandoe	Guest123@jumpy.com	customer	Delete
John Carter	jcarter@space.com	admin	Delete
jack	s544523@nwmissouri.edu	customer	Delete
Zoe	Zoe@starlight.com	supervisor	Delete
asdfgh	asdfgh@gmail.com	customer	Delete
Joe	JoeJoe@Joe.com	customer	Delete
s544523@nwmissouri.ed	s544523@nwmssouri.edu	customer	Delete

Add New User

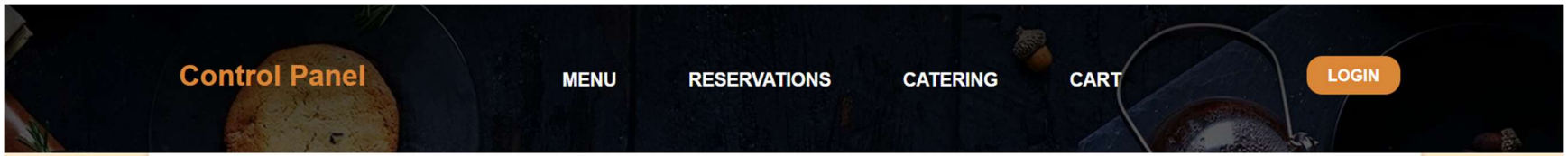


Reservation Management

Name	Email	Date	Time	Guests	Requests	Actions
Zoe	Zoe@starlight.com	2025-03-26	06:30	3	None	Delete
Zoe	Zoe@starlight.com	2025-03-26	13:00	1	None	Delete
Zoe	Zoe@starlight.com	2025-03-26	18:30	3	Zoom Zoom! I wrote this at 1 am!	Delete
John Carter	jcarter@space.com	2025-03-28	19:37	4	None	Delete
jack	s544523@nwmissouri.edu	2025-03-31	02:38	5	NAH	Delete
jack	s544523@nwmissouri.edu	2025-04-02	14:41	6+	ghjkl	Delete
John Carter	jcarter@space.com	2025-04-22	17:30	1	None	Delete

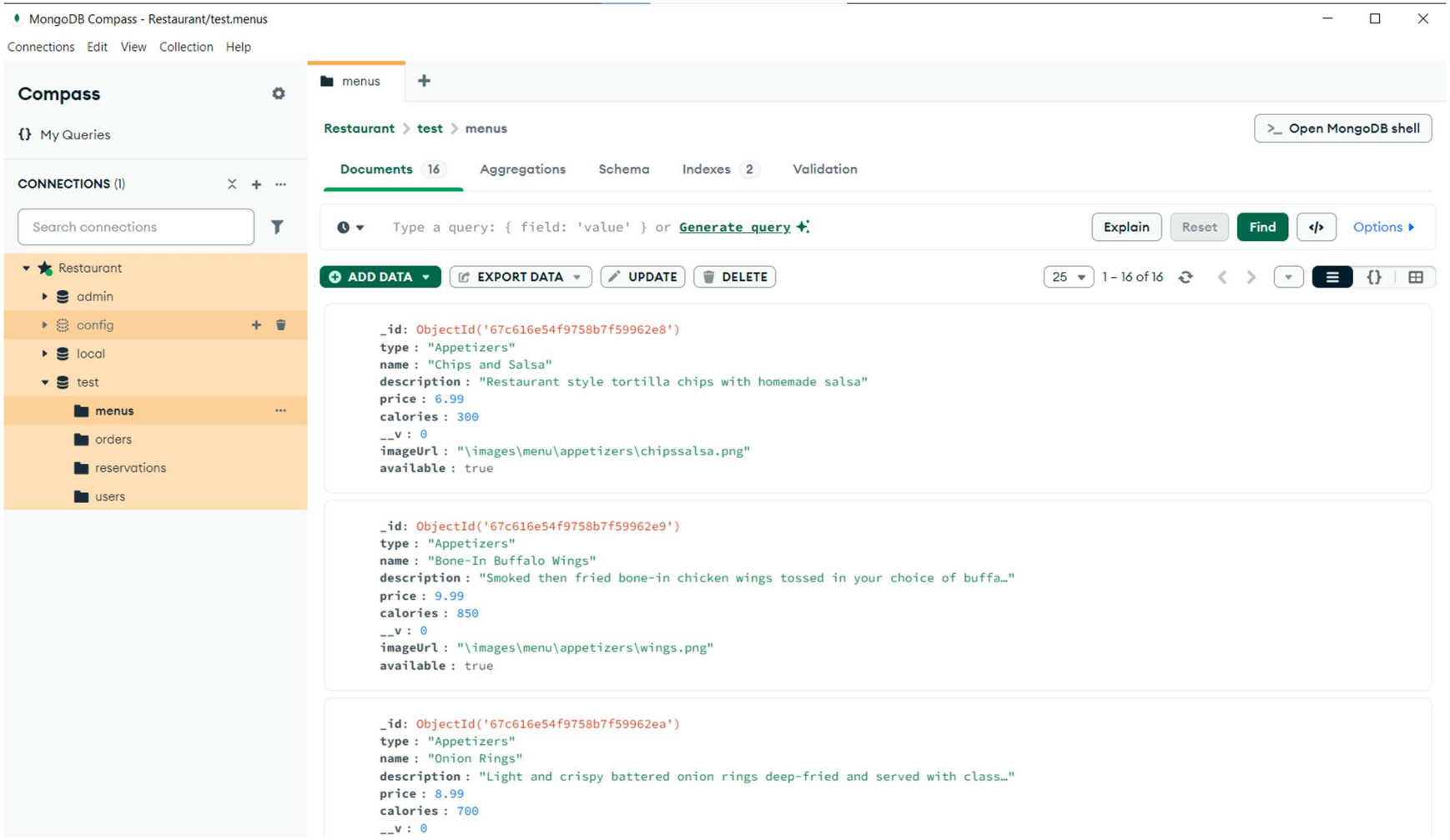
Order Management

User Name	User Email	Items	Total Price	Time
John Carter	jcarter@space.com	Bone-In Buffalo Wings (x1)	$0.00	4/21/2025, 2:34:01 PM
John Carter	jcarter@space.com	Onion Rings (x1), Fried Mozzarela (x1)	$0.00	4/21/2025, 2:32:30 PM



Supervisor Panel - Menu Management

Type	Name	Description	Price ($)	Calories	Available	Actions
Appetizers	Chips and Salsa	Restaurant style tortilla chips with homemade salsa	$6.99	300	Yes	Delete
Appetizers	Bone-In Buffalo Wings	Smoked then fried bone-in chicken wings tossed in your choice of buffalo or honey BBQ sauce	$9.99	850	Yes	Delete
Appetizers	Onion Rings	Light and crispy battered onion rings deep-fried and served with classic ranch and chipotle ranch	$8.99	700	Yes	Delete
Entrees	12oz Ribeye Steak	USDA Choice Reserve Ribeye Steak cooked to your preferred doneness	$18.99	1200	Yes	Delete
Entrees	Fried Chicken Dinner	Half chicken breaded in a light crispy batter then fried to golden perfection	$14.99	950	Yes	Delete
Entrees	Spaghetti & Meatballs	Spaghetti topped with housemade beef & pork meatballs and housemade tomato sauce	$14.99	1100	Yes	Delete
Entrees	Bacon Cheeseburger	1/4lb patty made with our in-house beef blend, topped with our burger sauce and your choice of lettuce, pickle, tomato	$13.99	1000	Yes	Delete


MongoDB Compass - Restaurant/test.menus
Connections Edit View Collection Help
Compass
My Queries
CONNECTIONS (1)
Search connections
Restaurant
admin
config
local
test
menus
orders
reservations
users
menus
Restaurant > test > menus
Open MongoDB shell
Documents 16
Aggregations
Schema
Indexes 2
Validation
Type a query: { field: 'value' } or Generate query
Explain
Reset
Find
Options
ADD DATA
EXPORT DATA
UPDATE
DELETE
25
1 - 16 of 16
_id: ObjectId('67c616e54f9758b7f59962e8')
type : "Appetizers"
name : "Chips and Salsa"
description : "Restaurant style tortilla chips with homemade salsa"
price : 6.99
calories : 300
__v : 0
imageUrl : "\images\menu\appetizers\chipssalsa.png"
available : true
_id: ObjectId('67c616e54f9758b7f59962e9')
type : "Appetizers"
name : "Bone-In Buffalo Wings"
description : "Smoked then fried bone-in chicken wings tossed in your choice of buffa…"
price : 9.99
calories : 850
__v : 0
imageUrl : "\images\menu\appetizers\wings.png"
available : true
_id: ObjectId('67c616e54f9758b7f59962ea')
type : "Appetizers"
name : "Onion Rings"
description : "Light and crispy battered onion rings deep-fried and served with class…"
price : 8.99
calories : 700
__v : 0