Sprint Cycle Report

Project: Restaurant Ordering, Delivery & Analytics System

Sprint Duration: 2 weeks

Team Members:

Scrum Master: Sowad Rahman

Developers: Abu Hossain Md Abed Hasan Tias, Ismam Khan

Sprint Goals:

1.Admin Dashboard Development:

o Design and implement the admin panel and initial user interfaces using React.
o Develop components for admin dashboard, menu management, admin sidebar etc.
o Ensure UI responsiveness and attractiveness for improved user experience.
o Integrate pages and navigation using react-router-dom

2. Add to cart
Customers can now add to cart and the result will be shown as a popup cart to the side

3.Model creation
Create database models (admin,cart,customer,cost,order and orderItem,review) for MongoDB.

4. Backend Setup and API Development:

o Define and implement RESTful API endpoints for cart, order, order item ,
o Develop CRUD operations for managing admin,customer, order,orderItem, review.
o Develop routes, controllers, and setup server.js
o Ensure proper validation and error handling in API responses.

4.Integration and Testing:
o Ensure smooth integration between frontend and backend components.
o Conduct unit testing for API endpoints and database interactions.
o Perform cross-browser and cross-device testing to ensure compatibility.
o Address challenges in integrating frontend and backend systems effectively.

Team Composition: •

  Scrum Master: Sowad Rahman
  Team Members:
      o Abu Hossain Md Abed Hasan Tias: Frontend development, UI/UX design using React.
      O Ismam Khan: controller,Setup CRUD Operations for Admin, Cart, Customer

Individual Contributions:

Sowad Rahman (Models):

- Developed the models for the second sprint.
- Created the Cart Model.
- Created the Customer Model.
- Created the Order Model.
- Created the OrderItem Model.

Abu Hossain Md Abed Hasan Tias: (View)

- Created the UI Design for the Admin Dashboard
- Used Tailwind css to design the dashboard
- Created individual components with JSX.
- Created pages for Admin Dashboard and Menu Management

Ismam Khan (Controller):

- Created all API Endpoints.
- Created controllers.
- Created the add - to cart functionality for the frontend using react and tailwind
- Setup CRUD Operations for Order , Order Item and Cart models
- Created appropriate routes with meaningful url endpoints for the backend.
- Did all work related to connecting frontend and backend
- Created fetch API calls from the front-end to give the design functionality

Challenges Faced:

- **Technology Adoption:** Collaborating using git to ensure smooth product development was a challenge
- **UI Responsiveness:** Adapting UI elements to be responsive across various devices and screen sizes.
- **Add-to-cart design :** finding the right add-to-cart design and making it work in a presentable way.
- **Admin Dashboard :** Designing and finding a good usable layout was a challenge.

Next Steps:

1. **Feature Expansion:**
   - Implement customer order placement and order management
   - Introduce customer reviews and ratings for menu items.
   - Enable order tracking and notifications for customers.
2. **Enhancement and Refinement:**
   - Improve UI design for better user experience (UX).
   - Refactor codebase for improved maintainability and scalability.
   - Optimize backend APIs for better performance under load conditions.
3. **Testing and Quality Assurance:**
   - Conduct end-to-end testing to validate user flows and system interactions.
   - Perform security testing to ensure data protection and secure transactions.
4. **Deployment and Feedback:**

- Prepare for deployment to a staging environment for final testing and feedback gathering.
- Incorporate user feedback to refine features and address usability issue
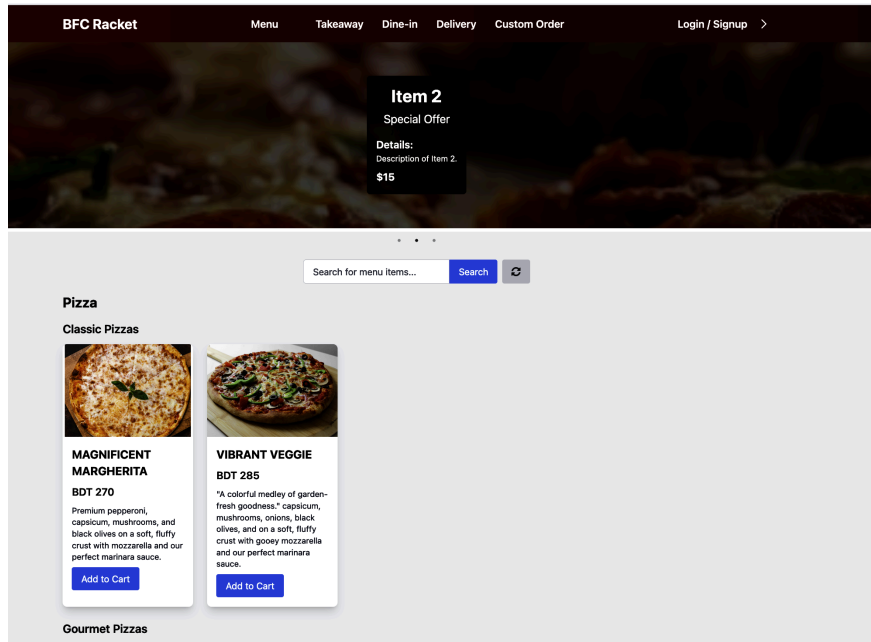
UI/UX FROM Sprint Cycle 1 :

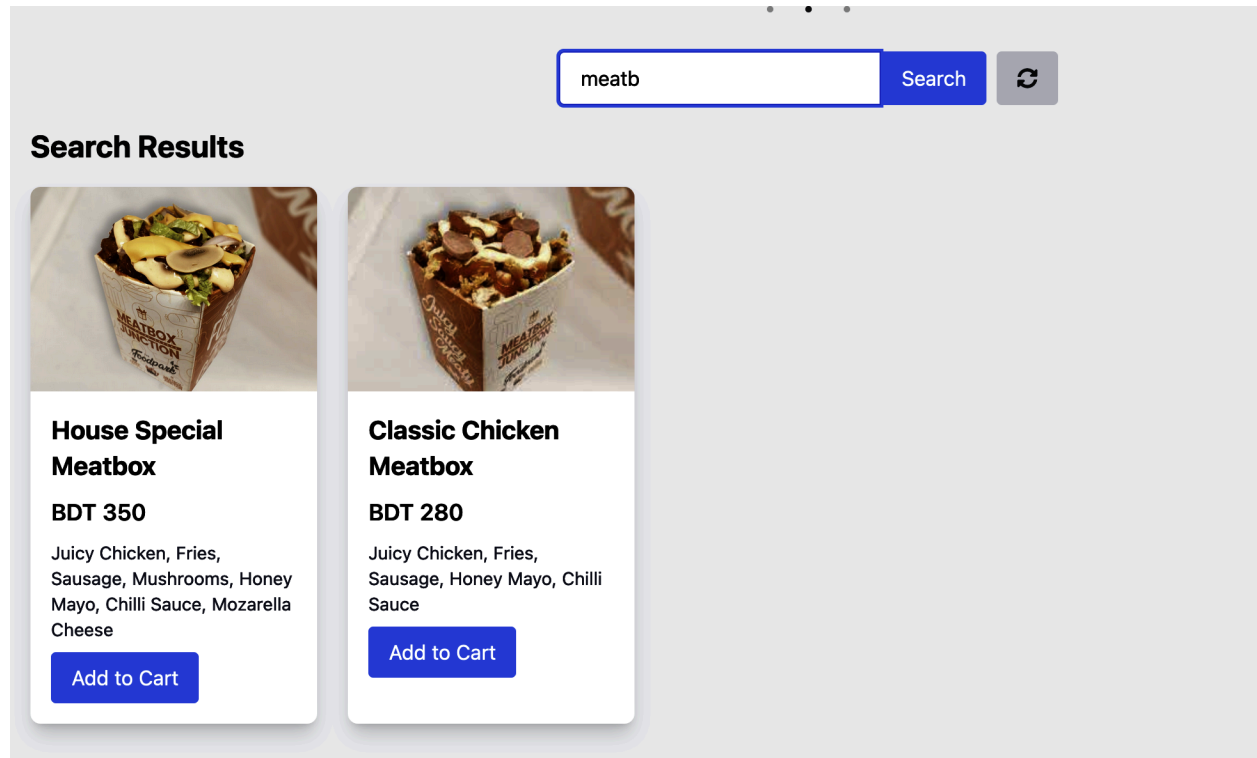*Fig - front page containing menu items by category*

Fig - filter by search

Fig - option to add new menu item

Fig - option to add new subcategories

Fig - option to add new categories
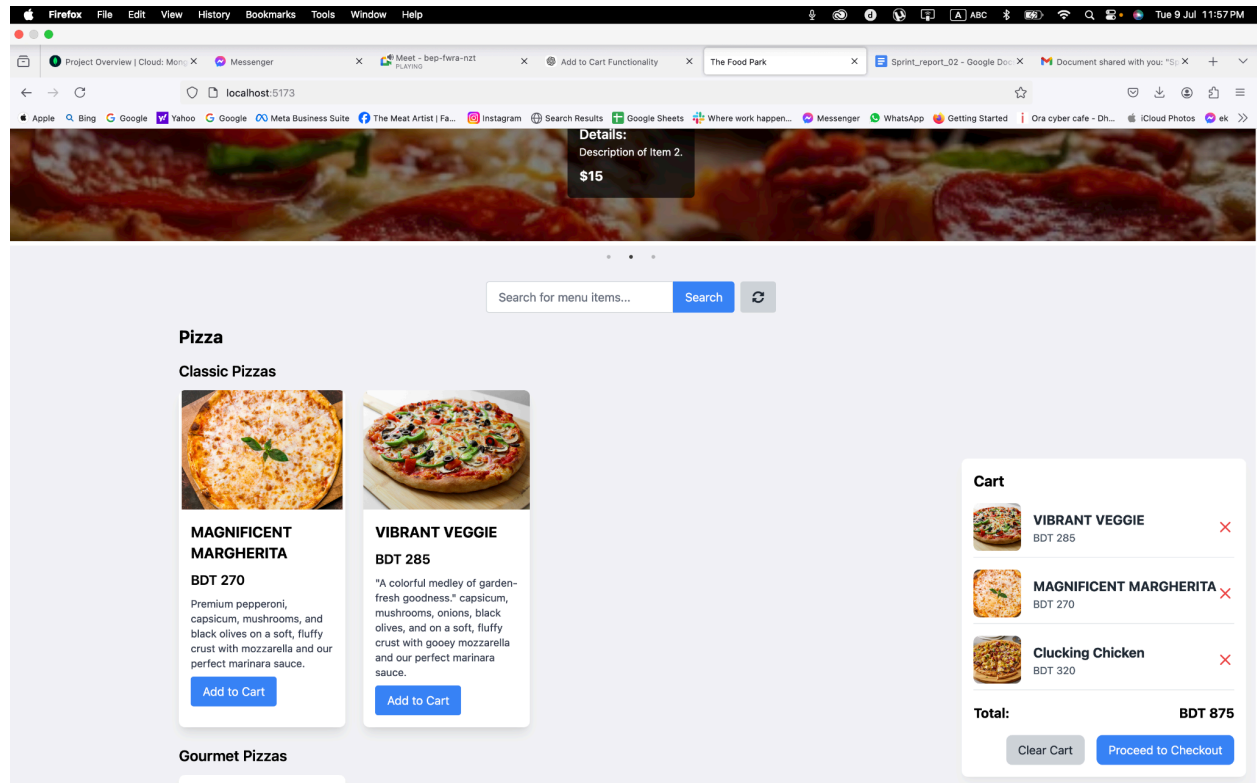
UI/UX FROM SPRINT CYCLE 2

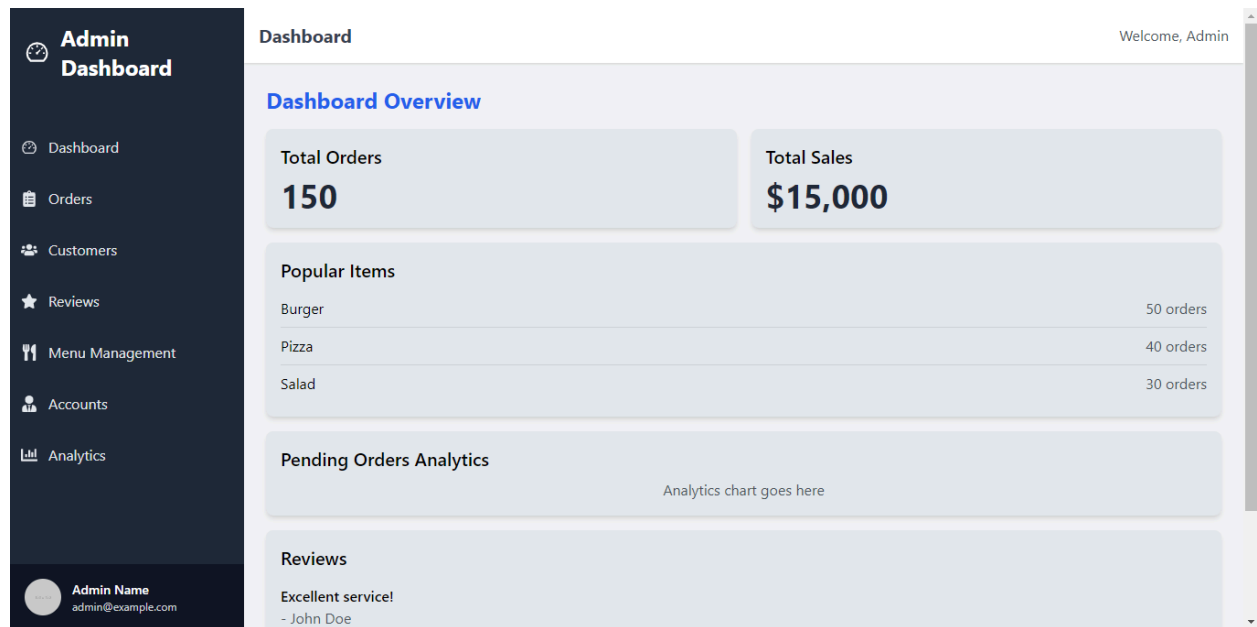*Fig - option to add to cart and the cart shows on the side*
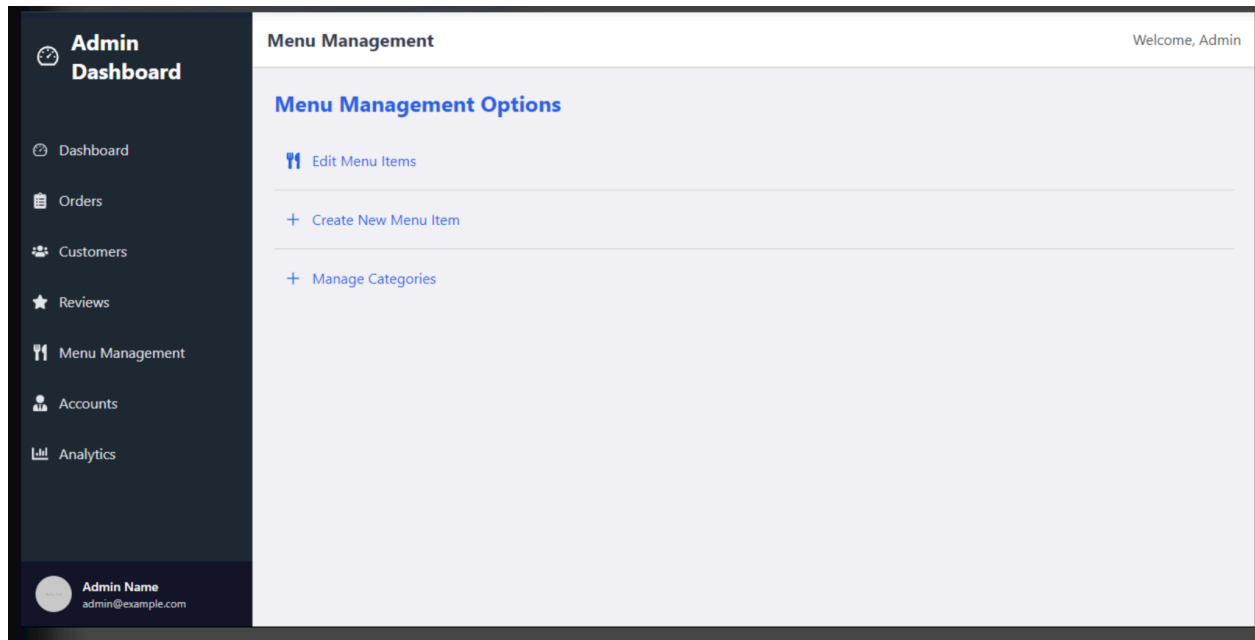

Fig - basic admin dashboard

fig - menu management page

Sprint Status Table

Task Description	Assigned To	Status
Creating models for order, cart , order item, customer	Sowad Rahman	Completed
Monitoring tasks for this sprint	Sowad Rahman	Completed
Creating UI For the Admin dashboard and menu management	Abu Hossain Md Abed Hasan Tias	Completed
Creating routes, controllers, and making calls to the database to create CRUD Operations	Ismam Khan	Completed
Add-to-Cart	Ismam Khan	Completed

functionality		