



# American International University- Bangladesh

## CSC 4261: Advanced Programming in Web Technology

### CO1 Evaluation Project Report Summer 22-23

Project Title: MuMerch

Project Domain: Merchandise Management System

Group Number: 03

Section: B

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# MuMerch

## Project Description:

The Merchandise Management System is a comprehensive software solution designed to smoothly operate Mumerch, which is a music and entertainment company. This system provides distinct functionalities for administrators, employees, band managers, and gig managers to effectively handle various features of the organization.

### 1. Administrator Features:

- User Management: Admins can manage profiles, passwords, and access for all users.
- Product Management: Add, update, view, and delete products, colors, sizes, categories, and units.
- Employee Management: Create and maintain employee profiles, reset passwords, and enable/disable access.
- Sales Reporting: Generate detailed sales reports and revenue reports.
- Concert Event Management: Add and update concert events.
- Authentication: Secure login and logout mechanisms.

### 2. Employee Features:

- User Management: Update profiles and change passwords.
- Product Management: Add, update, view, and delete products, colors, sizes, and categories.
- Sales Reporting: Generate sales reports.
- Concert Event Viewing: Access event details.
- Authentication: Secure login and logout mechanisms.

### 3. Band Manager Features:

- Profile Management: Update personal information and change passwords.
- Order Management: View and track order history.
- Customer Management: Access customer information.
- Sales Reporting: Generate sales reports and revenue reports.
- Concert Event Management: Add, view, and update events.
- Data Visualization: View bar charts for sales data.
- Authentication: Secure login and logout mechanisms.

### 4. Gig Manager Features:

- Profile Management: Update personal information and change passwords.
- Order Management: View and track order history.
- Customer Management: Access customer information.
- Sales Reporting: Generate sales reports.
- Concert Event Management: Add, view, and update events.
- Data Visualization: View bar charts for sales data.
- Authentication: Secure login and logout mechanisms.

## Project Folder Structure:

Figures 1 and 2 show the main structure of the merchandise management system's frontend. The public folder is the directory that contains the static assets such as images. Again, the pages folder is the directory containing NextJs pages which defines the routes of an application. Here, the auth folder contains the JavaScript files such as login, forget password that is used by all the users. The components folder under the pages folder contains the basic structure of the layout of dashboards of each user, and the homepage folder which is common to who so ever views the management system. Again, the dashboards folder under pages contains each user's JavaScript logical operation (CRUD) of all the models (i.e., customers, products,



# MuMerch

orders, etc.) that were created in the backend previously. The packages, when installed, are automatically sent to node\_modules folder.

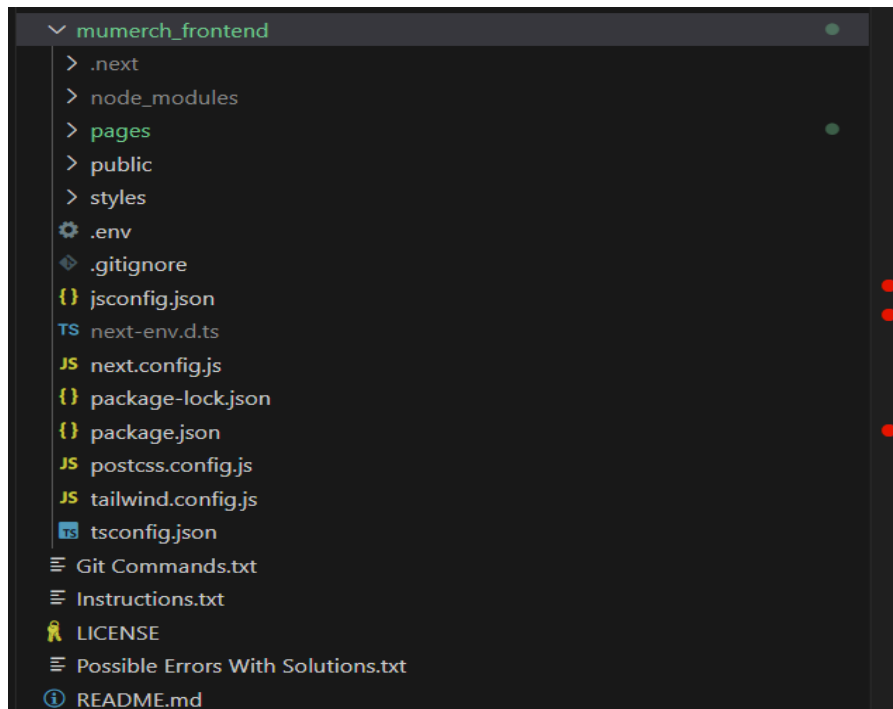


Figure: 1

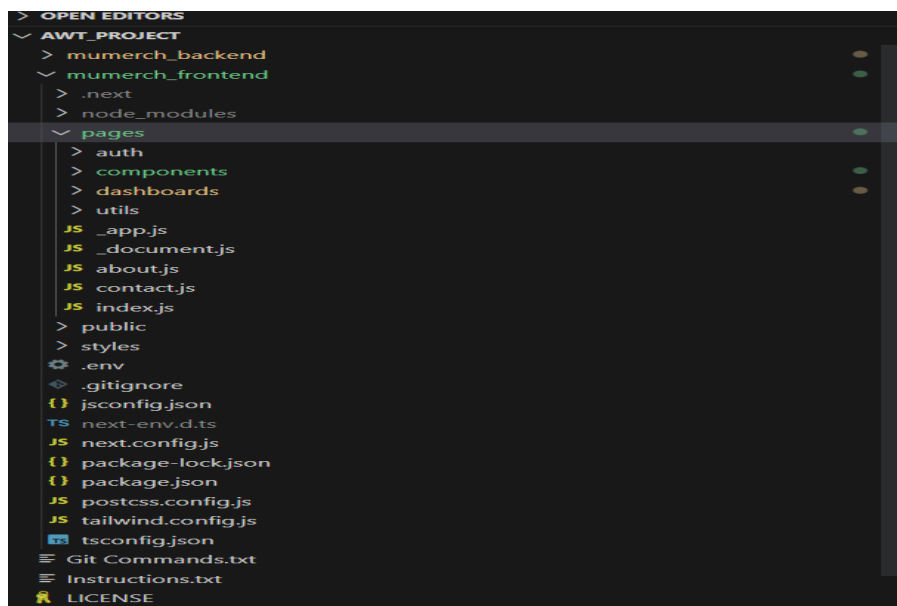
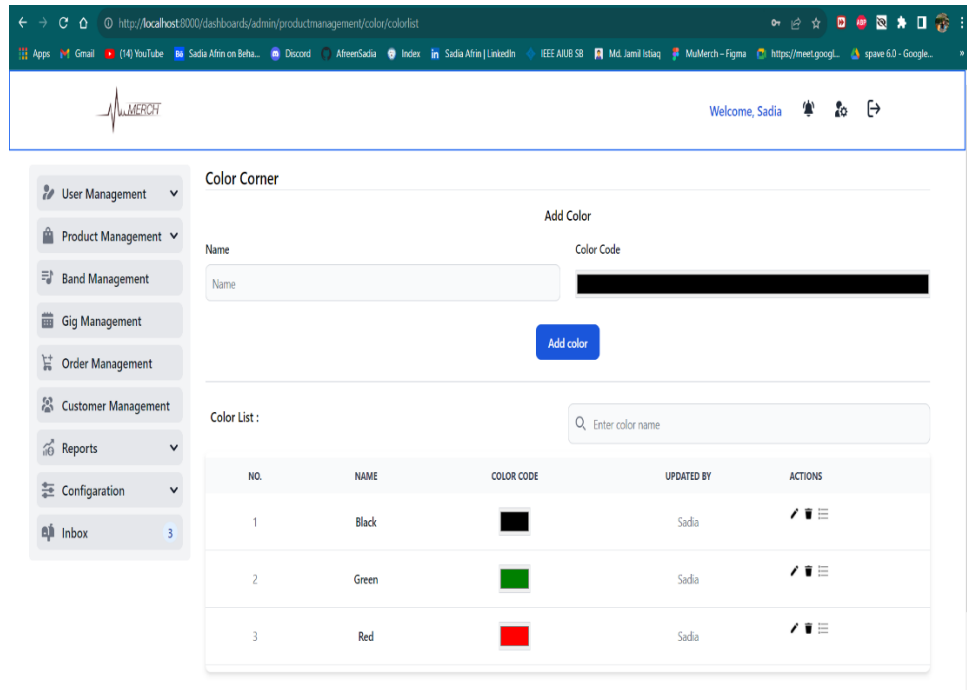


Figure: 2

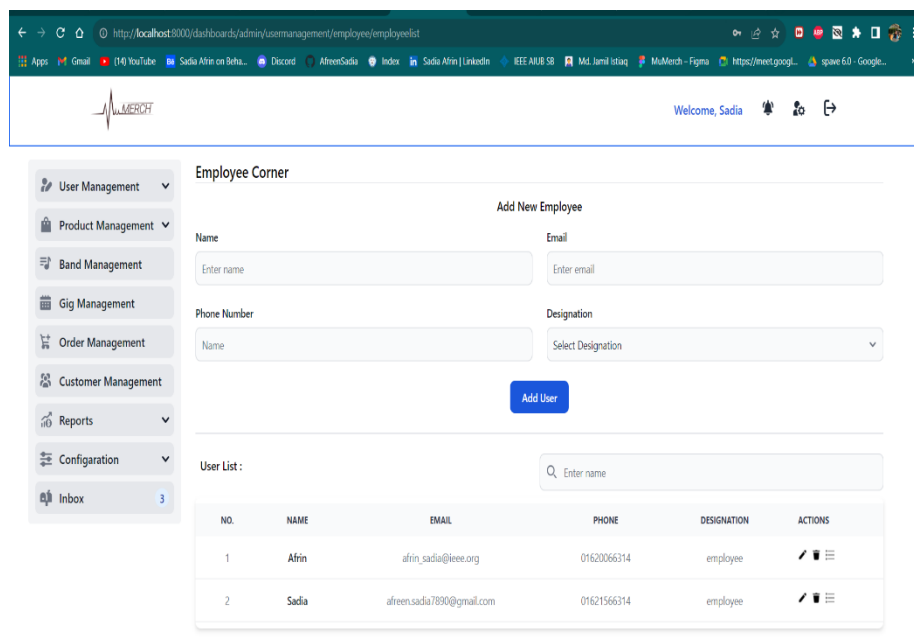
The figures below show some of the main interfaces of our project.



# MuMerch



**Figure: 3 The color list under product management**



**Figure:4 The employee interface under user management**



# MuMerch

The screenshot shows the MuMerch user profile interface. At the top, there's a navigation bar with the MuMerch logo and a welcome message "Welcome, Afrin". Below this, the interface is divided into three main sections. On the left is a sidebar menu with options: Product Management, Band Management, Gig Management, Order Management, Reports, and Inbox (with a notification badge showing 3). The middle section features a circular profile picture of a woman, a "Choose File" button, and a "Personal Information" form with fields for Name (Afrin), Father's Name (Abu Taher), Mother's Name (Shefali Begum), and Date of Birth (September 9, 2000). The right section contains "Accounts Information" with fields for ID (MM-0823-0003), Designation (employee), Email (afrin\_sadia@ieee.org), and Phone Number (01620066314), followed by "General Information" with fields for Blood Group (B+) and Address (Kuril).

**Figure: 5 The user profile interface**

The screenshot shows the MuMerch reset password interface. At the top, there's a navigation bar with the MuMerch logo. Below this, the interface is divided into two main sections. The left section is a sidebar menu with options: Product Management, Band Management, Gig Management, Order Management, Reports, and Inbox (with a notification badge showing 3). The right section features a "Reset Password" form with fields for Verification Code (Enter 6 digit verification code), Password (masked with dots), and Retype Password (Re-type Password). Below the form is a blue "Reset Password" button and a "Resend Code" link.

**Figure: 6 The reset password interface**



# MuMerch

**Add Product Corner**

Name  
Enter name

Price  
Enter price

Revenue Percentage  
Enter revenue percentage

Category  
Select Category

Band  
Select Band

Color  
Select Color

Size  
Select Size

Quantity  
Enter revenue percentage

**Add Product**

**Figure 7: The product interface of product management**

**Admins: 2**

**Employees: 2**

**Band\_Managers: 1**

**Gig\_Managers: 0**

**Bands: 1**

**Events: 0**

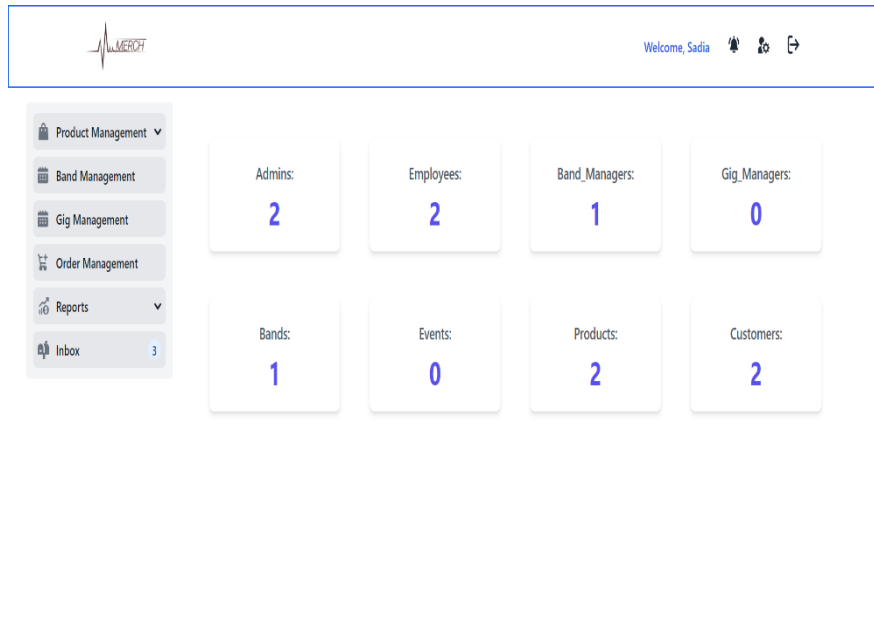
**Products: 2**

**Customers: 2**

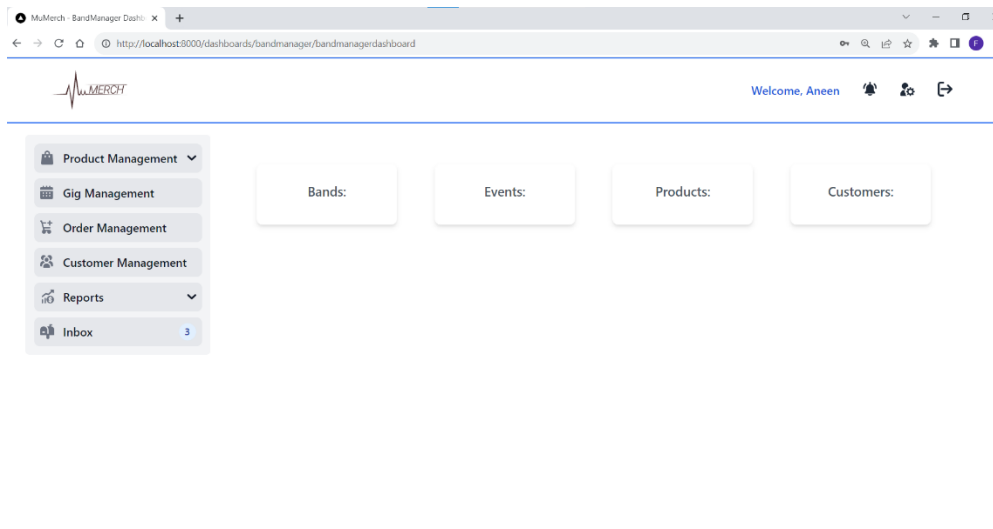
**Figure 8: Admin Dashboard**



# MuMerch



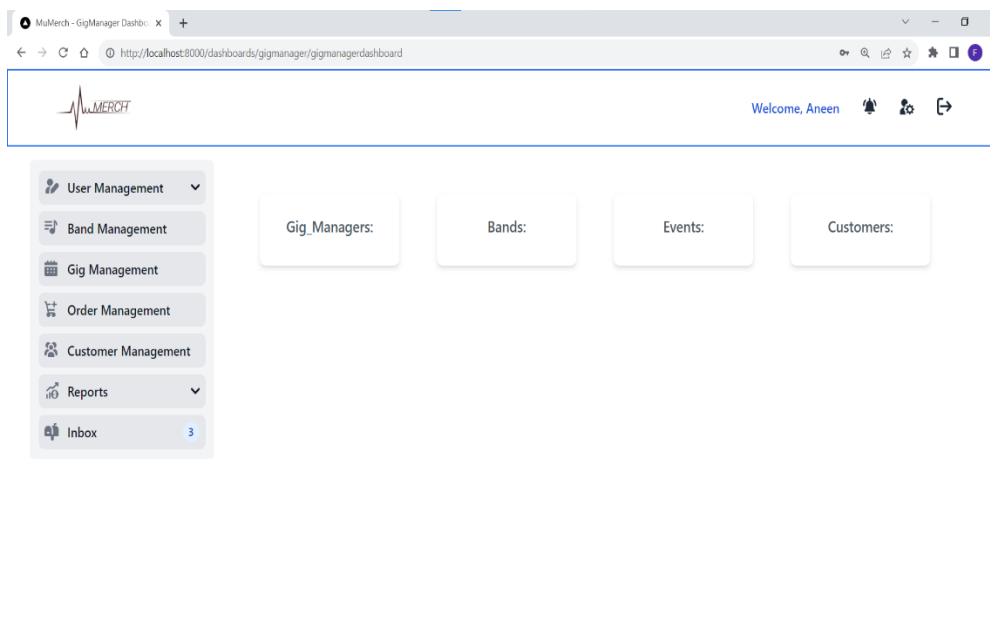
**Figure 9: Employee Dashboard**



**Figure 10: Band Manager Dashboard**



# MuMerch



**Figure 11: Gig Manager Dashboard**

## Git Link:

[https://github.com/alshakibeelahi/AWT\\_Project](https://github.com/alshakibeelahi/AWT_Project)

CO2 Evaluation: Project & Viva Evaluation				
Promptness (5)	Concept Understanding (5)	Justification (5)	Teamwork (5)	Total (15)

