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

Introduction:
This project is a minimal part of the website, MuSophia. It deals with the portion of the merchandise management system.

Problem Analysis:
This project focuses on building a merchandise system for a real-life platform, Musophia, which is a widely used floor for music enthusiasts. This project is important because this platform can easily help music lovers to be more involved to the industry. It increases sales by attracting customers. Our project is mainly built according to the requirement of the MuSophia.

Feature Analysis:

1. User Category:

There are 4 types of Users. They are:
- Admin
- Employee
- Band Manager
- Gig Manager

2. Feature List:

In this project the **"Admin"** has the following features:

- Login:
- Create admin profile:
- Update admin profile:
- View admin profile:
- Change password:
- Sales Report with date range, band & category wise filter – SAP Crystal Reports:
- Monthly Revenue Report (band wise)– SAP Crystal Reports:
- Bar Chart based on monthly product sale for each product:
- Create employee profile:
- Update employee profile:
- View employee profile:
- Delete employee profile:
- Create band manager profile:
- Update band manager profile:
- View band manager profile:
- Delete band manager profile:
- Create gig manager profile:
- Update gig manager profile:
- View gig manager profile:
- Delete gig manager profile:

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- View order
- Add category:
- View category:
- Update category:
- Delete category:
- Add product:
- View product:
- Update product:
- Delete product:
- Add color:
- View color:
- Update color:
- Delete color:
- Add size:
- View size:
- Update size:
- Delete size:
- Add bands:
- View bands:
- Update bands:
- Delete bands:
- View gig in poster:

In this project the **"Employee"** has the following features:

- Login:
- Create employee profile:
- Update employee profile:
- View employee profile:
- Delete employee profile:
- Sales Report with date range, band & category wise filter – SAP Crystal Reports:
- Monthly Revenue Report (band wise)– SAP Crystal Reports:
- Bar Chart based on monthly product sale for each product:
- Generate invoice:
- View product:
- Change password:
- View size:
- View color:
- View band:
- View category:
- View gig in poster:
- Add order:
- View order:
- Update order:

- Delete order:

In this project the **"Band Manager"** has the following features:
- Login:
- Create Band Manager profile:
- Update Band Manager profile:
- View Band Manager profile:
- Delete Band Manager profile:
- Sales Report with date range, band & category wise filter – SAP Crystal Reports with band id:
- Monthly Revenue Report (band wise)– SAP Crystal Reports with band id:
- Bar Chart based on monthly product sale for each product with band id:
- View product with band id:
- Change password:
- View order with band id:
- View customer with band id:
- View gig with band id:

In this project the **"Gig Manager"** has the following features:
- Signup:
- Login:
- Create gig Manager profile:
- Update gig Manager profile:
- View gig Manager profile:
- Delete gig Manager profile:
- Sales Report with date range, band & category wise filter – SAP Crystal Reports with gig id:
- Monthly Revenue Report (band wise)– SAP Crystal Reports with gig id:
- Bar Chart based on monthly product sale for each product with gig id:
- Change password:
- View order with gig id:
- View customer with gig id:
- Add bands:
- Add gig:
- Add gig manager:

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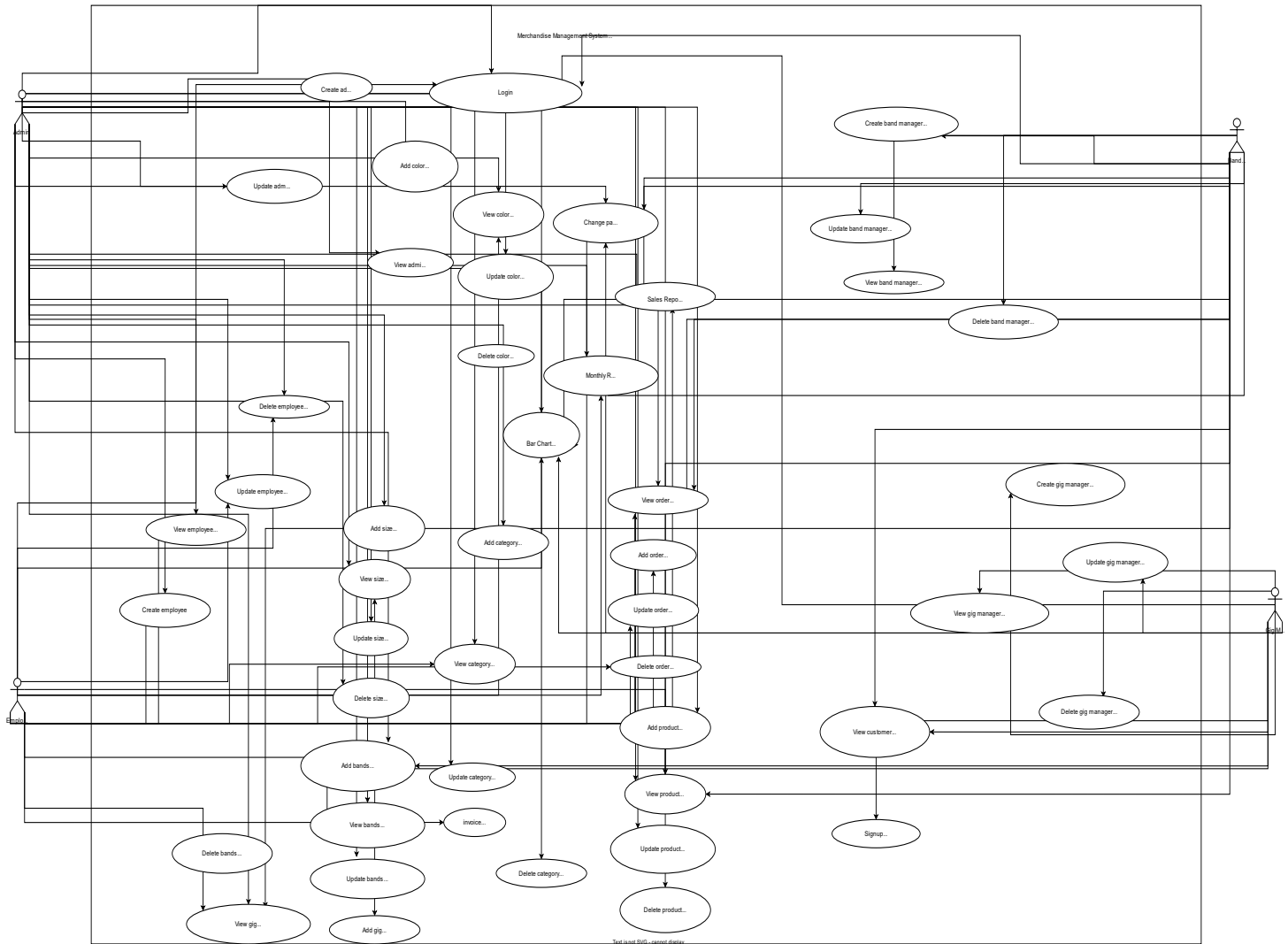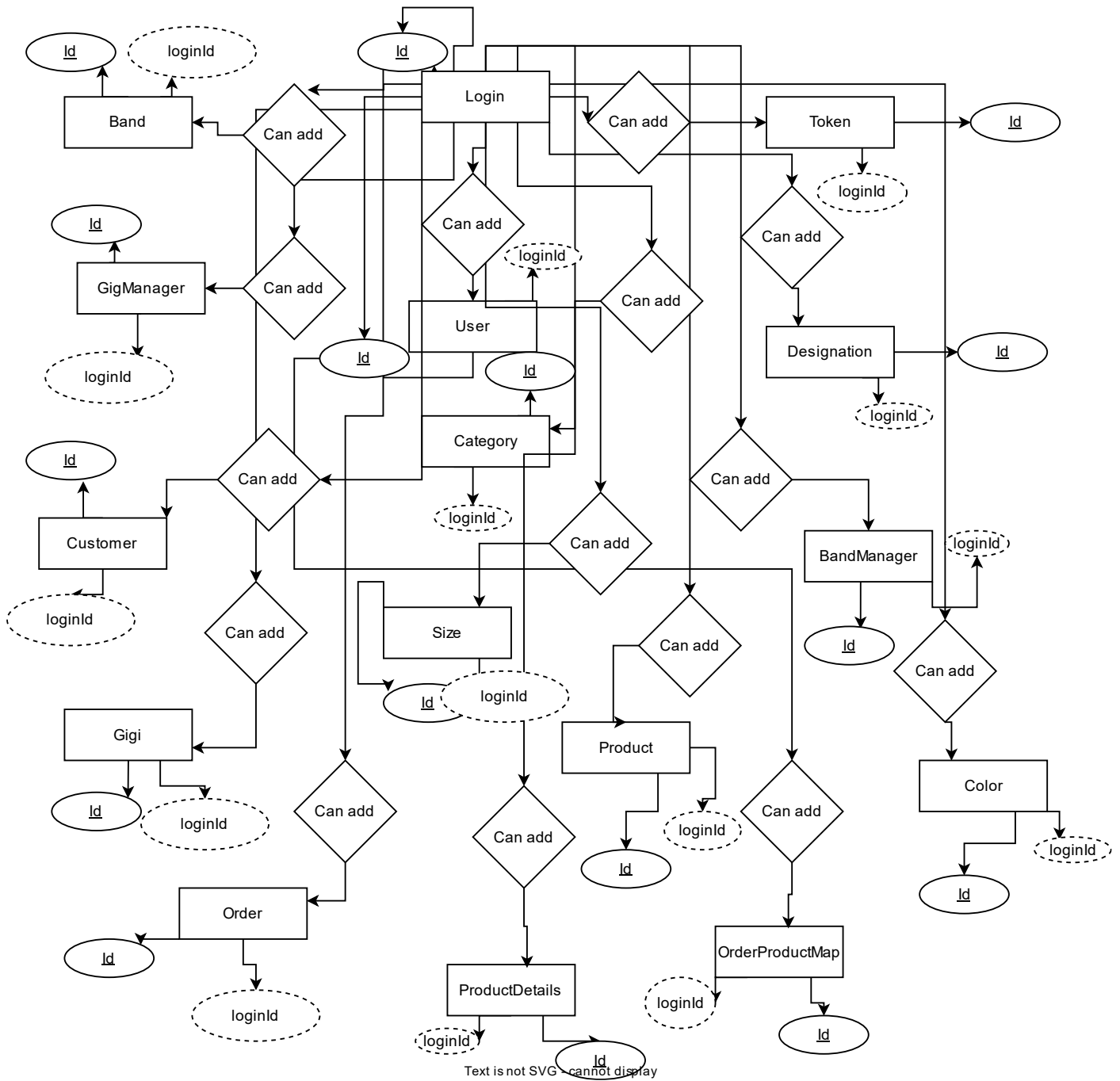## Design:

Figure: Use Case diagram

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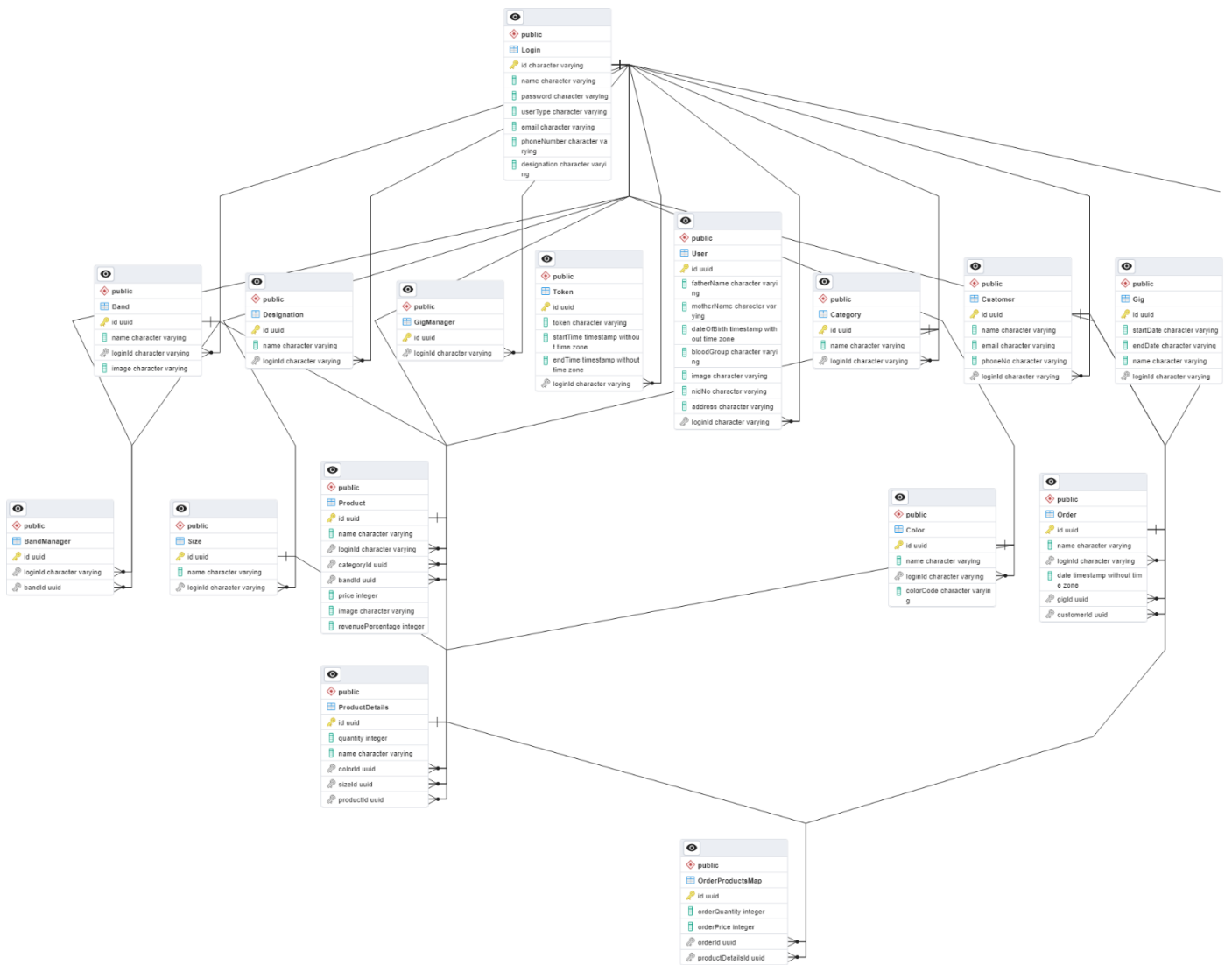**Figure: ER diagram**

MuMerch

Figure: ER diagram

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Tools Used:

To develop this project, we have used:

- Visual Studio Code
- PostgreSQL
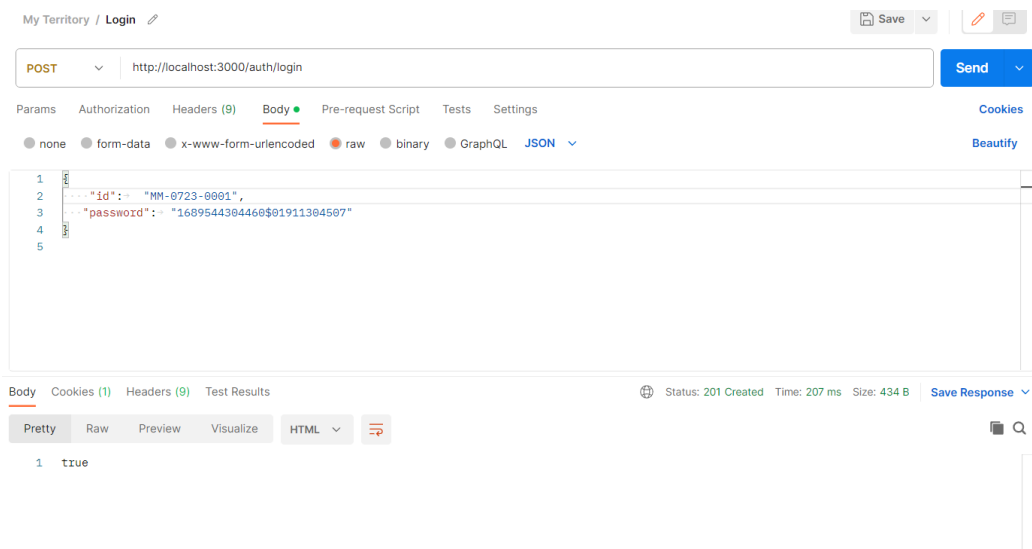- Git
- Postman

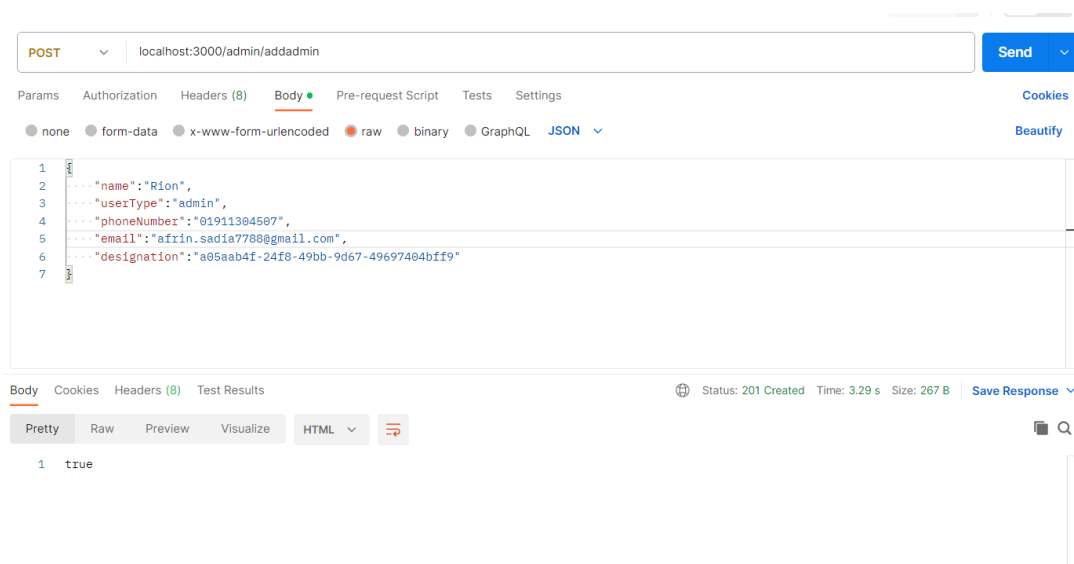## System Images against the Specification:

Figure: Login

Figure: Add admin

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Figure: Get User Profile

Impact of this Project:

Mumerch, a sister concern of Musophia, has made a significant impact by revolutionizing the merchandise business for bands and gig managers. Through their platform, they provide seamless experience for selling and distributing merchandise, enabling artists to connect directly with their fans and increase revenue. Mumerch's innovative approach has empowered musicians to expand their brand presence, boost their fan base, and generate additional income streams. By bridging the gap between artists and their audience, Mumerch has transformed the merchandising landscape, fostering mutually beneficial partnerships and driving growth in the music industry.

Limitations and Possible Future Improvements:

As this is just a small step towards success for the Bangladeshi merchandise business. More such management systems can be built to keep and have an engaging audience and for better results machine learning technique might be used.

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