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# THE GYM BRO

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Project Report



OCTOBER 06, 2023



**VEER NARMAD SOUTH GUJARAT UNIVERSITY**



**ATMANAND SARASWATI SCIENCE COLLEGE**

**B.Sc. (Computer Science) Program**

PROJECT REPORT ON

**THE GYM BRO**

AS PARTIAL REQUIREMENT, FOR

B.Sc. (Computer Science) 5<sup>th</sup> Semester

Year: 2023 – 2024

**GUIDED BY:**

**MRS. VAISHNAVI BADAMI**

**SUBMITTED BY:**

**MR. MAHESH BARDOLIYA**

**(CS2104)**

# ACKNOWLEDGMENT

With immense pleasure and a sense of fulfillment, I would like to present this report on the project entitled '**THE GYM BRO (Version 1)**'.

I would like to express our sincere gratitude towards our H.O.D. & Project Guide **Mrs. VAISHNAVI BADAMI**, for providing us the opportunity to work under her guidance. We are grateful to her for keeping faith in us and considering us worthy for such a development work. We thank her for being our torchbearer and for guiding us well to face the development challenges. We are thankful to her for taking personal interest and making all the resources available to us. Her valuable guidance and substantial suggestions were extremely helpful to us during the development of the project. We would also like to offer our gratitude towards our Principal **Dr. Shailesh Padsala** and all faculty members of our college, who helped us by giving their valuable suggestions and encouragement which not only helped us in preparing this report but also in having a better insight in this field. Overall, this project has given me a rich set of experience, which shall always guide me throughout my career.

Last but not the least; We build on a special debt to all mighty for his grace and blessings. We would like to express our heartiest gratitude to our family for their love, faith, and blessings which they bestowed us.

I also want to thank all my faculties and friends for their constant help throughout the whole time. I could not have done it without their help.

Thanking you all,  
Mahesh Bardoliya

# COLLEGE CERTIFICATE

# ABSTRACT

"The Gym Bro" is an innovative e-commerce platform designed to cater to fitness enthusiasts by providing a seamless online shopping experience for gym-related products. Built using PHP Laravel and Jetstream, this website offers a range of user-centric features, including secure user authentication, dynamic product catalogue management, and flexible payment options. Users can effortlessly navigate the site, adding desired items to their shopping carts and choosing between convenient payment methods, either by card or cash. The website's intuitive design ensures a smooth user experience, allowing customers to manage their orders and profiles with ease. On the administrative front, the platform empowers administrators with robust product management tools, enabling them to add, update, and remove products from the inventory. Additionally, admins have the authority to approve products submitted by users, ensuring the catalogue's quality and relevance. The website also offers comprehensive user management capabilities, allowing admins to assign roles, ban users, and maintain a secure online environment. Although AJAX integration is not implemented in the current version, "The Gym Bro" serves as a solid foundation, providing a glimpse into the future potential for further enhancements and features, making it an asset for fitness enthusiasts and gym product vendors alike.

Feel free to modify and expand upon this abstract to better align it with your project specifics. If you have any additional details you'd like to include, please let me know!

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# Introduction

## 1.1 Project Profile



# PROJECT PROFILE

<b>Project Name:</b>	THE GYM BRO
<b>Technology:</b>	PHP Laravel
<b>Front End:</b>	HTML, CSS, JavaScript
<b>Back End:</b>	MySQL
<b>Development Tool:</b>	Visual Studio Code 1.83.0
<b>Documentation Tool:</b>	Microsoft Word
<b>Project Duration:</b>	JUNE 21, 2023 TO OCTOBER 10, 2023
<b>Developed By:</b>	-Mahesh Bardoliya -CS2104

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# **ENVIRONMENT DESCRIPTION**

**2.1 Hardware Used**

**2.2 Software Used**

## 2.1 HARDWARE USED

### ❖ Development time Hardware Requirement

<b>Microprocessor:</b>	Intel(R) Core(TM) i5
<b>Memory:</b>	8.00 GB RAM
<b>Hard Disk Space:</b>	1 GB

### ❖ Run time Hardware Requirement

<b>Memory:</b>	4 GB Minimum
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## 2.2 SOFTWARE USED

### ❖ Development time Software Requirement

<b>Operating System:</b>	Windows 11
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<b>Server-Side Script Language:</b>	PHP Laravel
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<b>Database:</b>	MySQL
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<b>Browser:</b>	Google Chrome
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<b>Server:</b>	XAMPP Server
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<b>Software:</b>	Visual Studio Code
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### ❖ Run time Software Requirement

<b>Browser:</b>	Google Chrome Or Other Browser
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<b>Software:</b>	Internet Connection
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## **EXITING SYSTEM**

### **3.1 Manual process**

### **3.2 Manual process drawbacks**

## 3.1 MANUAL PROCESS

- ❖ **Account Registration and Login:** New users need to manually register for an account on the website by providing essential information such as email, password, and personal details. Registration allows users to create a personalized profile, track orders, and manage their preferences. Users must also manually log in to their accounts during subsequent visits to access exclusive features.
- ❖ **Product Selection and Cart Management:** Users manually browse through the product catalog, selecting gym equipment such as dumbbells, treadmills, and home gyms. They add chosen items to their shopping cart by clicking on the "Add to Cart" button. Manual product selection ensures users can curate a customized shopping experience tailored to their fitness needs. Managing the cart allows users to review items before making a purchase.
- ❖ **Payment Method Selection:** During the checkout process, users manually select their preferred payment method, either card or cash. Manual payment method selection ensures users can choose the most convenient and secure way to pay for their purchases, enhancing their trust in the transaction.

process.

- ❖ **Order Cancellation:** If users wish to cancel an order, they need to manually navigate to their order history, select the specific order, and request cancellation. Allowing manual order cancellation gives users control over their purchases, ensuring they can modify their orders before they are processed and shipped.
- ❖ **Profile Management:** Users can manually edit their profiles, update personal information, and change account settings. Manual profile management enables users to keep their account details accurate and up to date, enhancing the security and personalization of their experience on the website.

## 3.2 **MANUAL PROCESS DRAWBACKS**

- ❖ **Time-Consuming Account Registration and Login:**  
Requiring users to manually register and log in might discourage potential customers who prefer quicker access to product browsing. Lengthy registration processes could lead to a high bounce rate, affecting user engagement.
- ❖ **Complex Product Selection and Cart Management:**  
Manual product selection and cart management might be overwhelming for some users, especially those unfamiliar with online shopping interfaces. Complicated navigation could result in abandoned carts and lost sales opportunities.
- ❖ **Limited Payment Method Selection:** Restricting users to choose between card or cash payments may alienate those who prefer other popular online payment methods such as digital wallets or mobile payment apps. Limited payment options could deter potential customers from completing purchases.
- ❖ **Challenging Order Cancellation Process:** Requiring users to navigate through order history and request cancellations manually may create frustration. A



cumbersome cancellation process might discourage users from making future purchases on the platform.

- ❖ **Potential Profile Management Issues:** Manual profile management could lead to outdated or inaccurate user information, affecting the effectiveness of personalized recommendations. Users might miss out on tailored offers and product suggestions due to incomplete or outdated profiles.
- ❖ **Limited Order Tracking Efficiency:** Without an automated order tracking system, users might experience delays in receiving accurate updates about their orders. Lack of real-time tracking information could result in uncertainty and dissatisfaction among customers.



## **PROPOSED SYSTEM**

### **4.1 Scope**

### **4.2 Objectives**

## 4.1 SCOPE

"The Gym Bro" project aims to create a dynamic and user-friendly e-commerce platform tailored to fitness enthusiasts and gym equipment vendors. Within the scope of the project, the website will feature an extensive product catalog, showcasing a diverse range of gym equipment, including dumbbells, treadmills, and home gyms. Users will have the ability to register accounts, log in securely, and manage their profiles, ensuring a personalized experience. The website will facilitate seamless shopping experiences, allowing users to add, remove, and modify products in their shopping carts. Additionally, a secure checkout process will be implemented, supporting various payment methods such as credit/debit cards and cash on delivery. The platform will prioritize user engagement by offering community features, including forums and discussion boards, fostering a sense of belonging among fitness enthusiasts. The project scope also includes robust vendor management tools, enabling sellers to add, update, and remove products, ensuring an up-to-date and diverse product inventory. Through intuitive user interfaces and responsive design, "The Gym Bro" will provide an engaging environment for users to explore, purchase, and interact within the fitness community.

## 4.2 OBJECTIVES

- ❖ Create an intuitive and visually appealing user interface to enhance user experience and ensure seamless navigation for both fitness enthusiasts and gym equipment vendors.
- ❖ Curate a diverse and extensive product catalog featuring various gym equipment such as dumbbells, treadmills, and home gyms. Include detailed descriptions, images, and pricing information for each product.
- ❖ Develop a user-friendly shopping cart system that allows users to add, remove, and modify products effortlessly. Implement a seamless checkout process, supporting multiple payment methods, including credit/debit cards and cash on delivery.
- ❖ Provide vendors with tools to add, update, and remove products from the inventory. Implement an easy-to-use interface for vendors to manage their product listings, ensuring an up-to-date and diverse product selection.
- ❖ Implement robust security protocols to safeguard user data, financial transactions, and overall website integrity. Regularly update security measures to

protect against potential threats and vulnerabilities.

- ❖ Develop a responsive design that offers optimal user experiences across various devices, including desktops, tablets, and smartphones. Ensure seamless functionality and accessibility irrespective of the user's device.
- ❖ Foster a sense of community among fitness enthusiasts by integrating discussion forums and boards. Encourage user interactions, knowledge sharing, and motivation within the fitness community.



# **SYSTEM PLANNING**

## **5.1 Feasibility Study**

## **5.2 Requirement Gathering**

## 5.1 FEASIBILITY STUDY

- ❖ **Technical Feasibility:** Evaluate the technical skills of the development team in PHP Laravel, Jetstream, and web design to ensure they align with project requirements. Assess the availability and compatibility of hosting servers, databases, and necessary development tools like Visual Studio Code and XAMPP.
- ❖ **Economic Feasibility:** Conduct a thorough cost-benefit analysis, comparing development costs, maintenance expenses, and potential revenue streams from the website's operation. Estimate the projected ROI over a specific timeframe, considering market demand, pricing strategy, and user acquisition rates.
- ❖ **Legal Feasibility:** Ensure compliance with legal regulations related to e-commerce, user data protection, and online payment processing. Obtain necessary licenses and permissions to operate the online platform. Verify the legality of product listings and content to prevent copyright infringement issues. Implement a policy for user-generated content to protect intellectual property rights.
- ❖ **Operational Feasibility:** Assess the availability of

skilled developers, customer support staff, and administrators to ensure smooth day-to-day operations. Gauge the website's user-friendliness through usability testing, focusing on navigation, responsiveness, and overall satisfaction of end-users. Evaluate the platform's scalability, considering potential growth in user base and product listings. Assess the ability to handle increased traffic and transactions without compromising performance.

❖ **Conclusion:** Based on the technical expertise, economic viability, legal compliance, and operational readiness, the feasibility study indicates a positive outlook for "The Gym Bro" project. With careful planning, adherence to legal standards, and a focus on user experience, the project demonstrates strong potential for success in the competitive online gym equipment market.



## 5.2 REQUIRMENT GATHERING

- ❖ Conducted an in-depth analysis of existing gym equipment websites, studying features, layouts, and user experiences to identify best practices and potential areas for innovation.
- ❖ Engaged in conversations with peers, fitness enthusiasts, and online communities to gather insights into user preferences, challenges, and expectations when shopping for fitness equipment online.
- ❖ Held formal discussions with local gym equipment vendors to understand their specific requirements, focusing on inventory management, order processing, and payment solutions. Their feedback shaped the vendor-facing functionalities of the platform.
- ❖ Actively participated in fitness forums and communities, observing discussions, and gathering feedback from active community members. This interaction provided valuable insights into the broader preferences of the fitness enthusiast community, guiding the project's user-centric approach.



# MODULE SPECIFICATION

# THE GYM BRO INCLUDES

## ❖ User Side

**Browse Products:** Users can explore a diverse range of gym equipment, including dumbbells, treadmills, and home gyms, displayed in a visually appealing manner with detailed descriptions and images.

**Filter by Category:** Users can conveniently filter products based on categories such as cardio equipment, strength training, or accessories, enabling focused browsing tailored to their fitness needs.

**User Registration and Login:** New users can easily register by providing essential information, creating accounts that grant access to personalized features and a seamless shopping experience. Registered users can log in securely using their credentials, ensuring the protection of their personal information.

**Add to Cart:** Users can add desired products to their shopping cart with a simple click, allowing them to review their selections before making a final decision.

**Checkout Process:** Users can proceed to checkout, where they confirm their selected items, provide delivery details, and choose a preferred payment method, including credit/debit cards or cash on delivery. Users receive a comprehensive order summary, displaying the chosen products, total price, and delivery information for review before confirming the purchase.

**Order Cancellation:** Users have the option to cancel their orders within a specific timeframe if they change their mind, providing a hassle-free cancellation process.

**Profile:** users have complete control over their profiles with a range of management options. They can easily update their personal details, including email address and name, ensuring accurate account information. For enhanced security, users can change their passwords at any time. Additionally, the platform provides a logout option, allowing users to end their active sessions, ensuring privacy and security. For those wishing to discontinue their association with the platform, there is a seamless account deletion feature, allowing users to permanently remove their accounts, ensuring their data is deleted from the system.

## ❖ Admin Side

**Add Products:** Admins can seamlessly add new gym equipment products to the platform, inputting details like descriptions, images, prices, and available quantities.

**Update Products:** Admins have the authority to modify existing product information, including descriptions, prices, and availability, ensuring accurate and current listings.

**Remove Products:** Admins can remove outdated or discontinued products from the catalog, maintaining a curated and relevant selection for users.

**Promote to Admin or Demote:** Admins have the privilege to promote regular users to admin status for specific roles and responsibilities. Similarly, they can demote admins back to regular user status when necessary.

**Ban User:** Admins can temporarily or permanently ban

users who violate community guidelines or engage in inappropriate behavior, ensuring a safe environment for all users.

**Approve Products as Delivered:** Admins can review and approve products as "delivered" after cross-verification, ensuring accurate order fulfillment records, and maintaining customer trust.



## **DETAIL PLANNING**

**7.1 Data Flow Diagram**

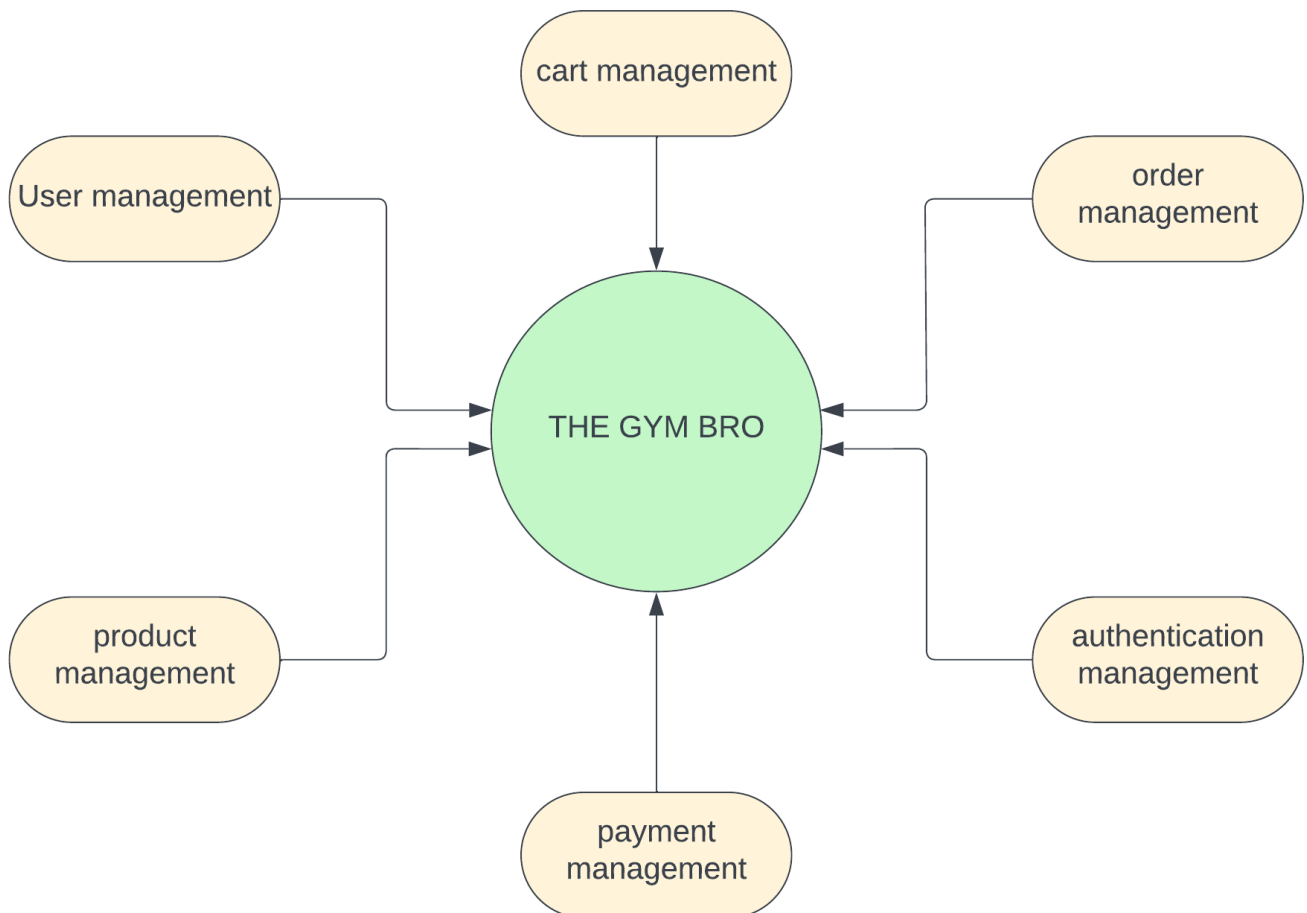
**7.2 Entity Relationship Diagram**

**7.3 Database Design**

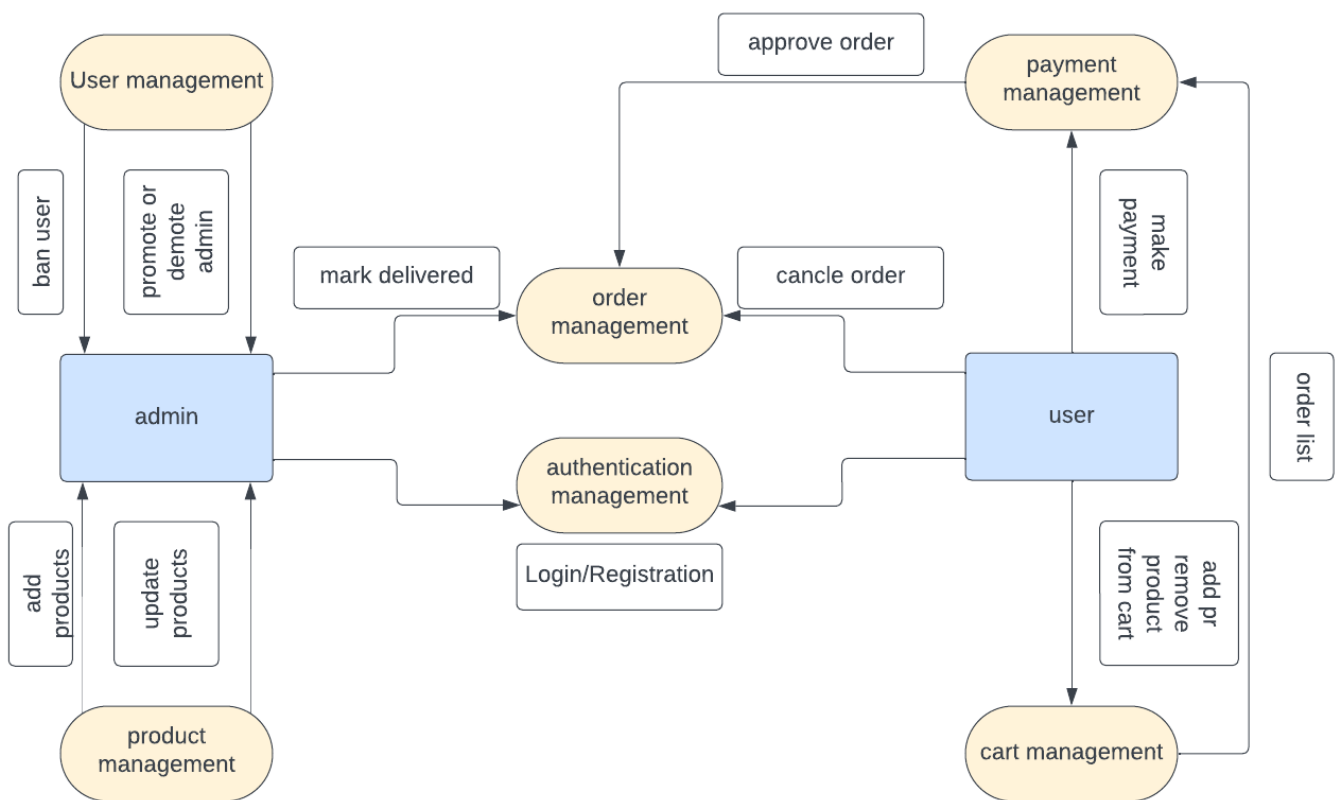


## 7.1 DATA FLOW DIAGRAM

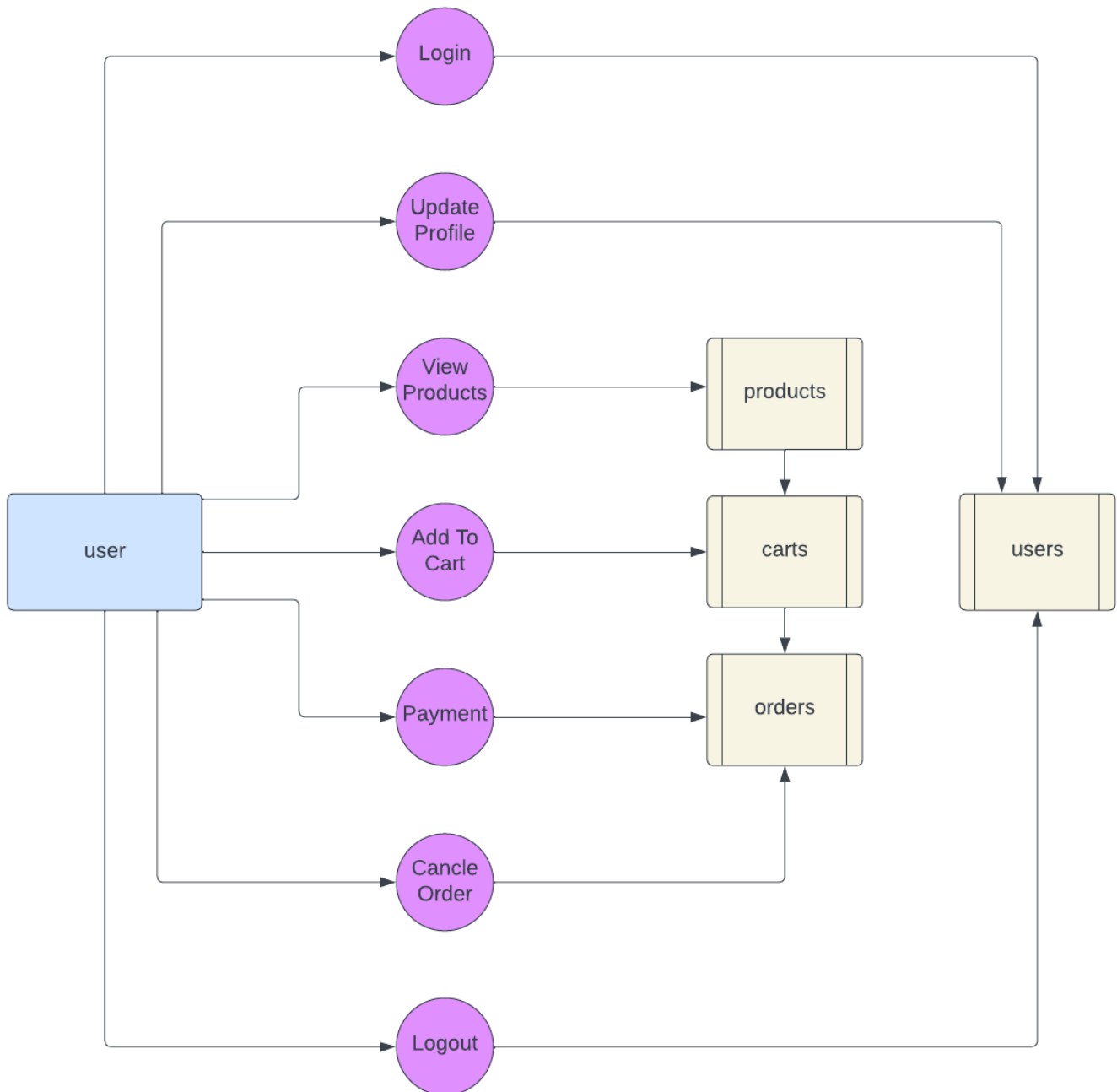
### LEVEL 0:



## LEVEL 1:

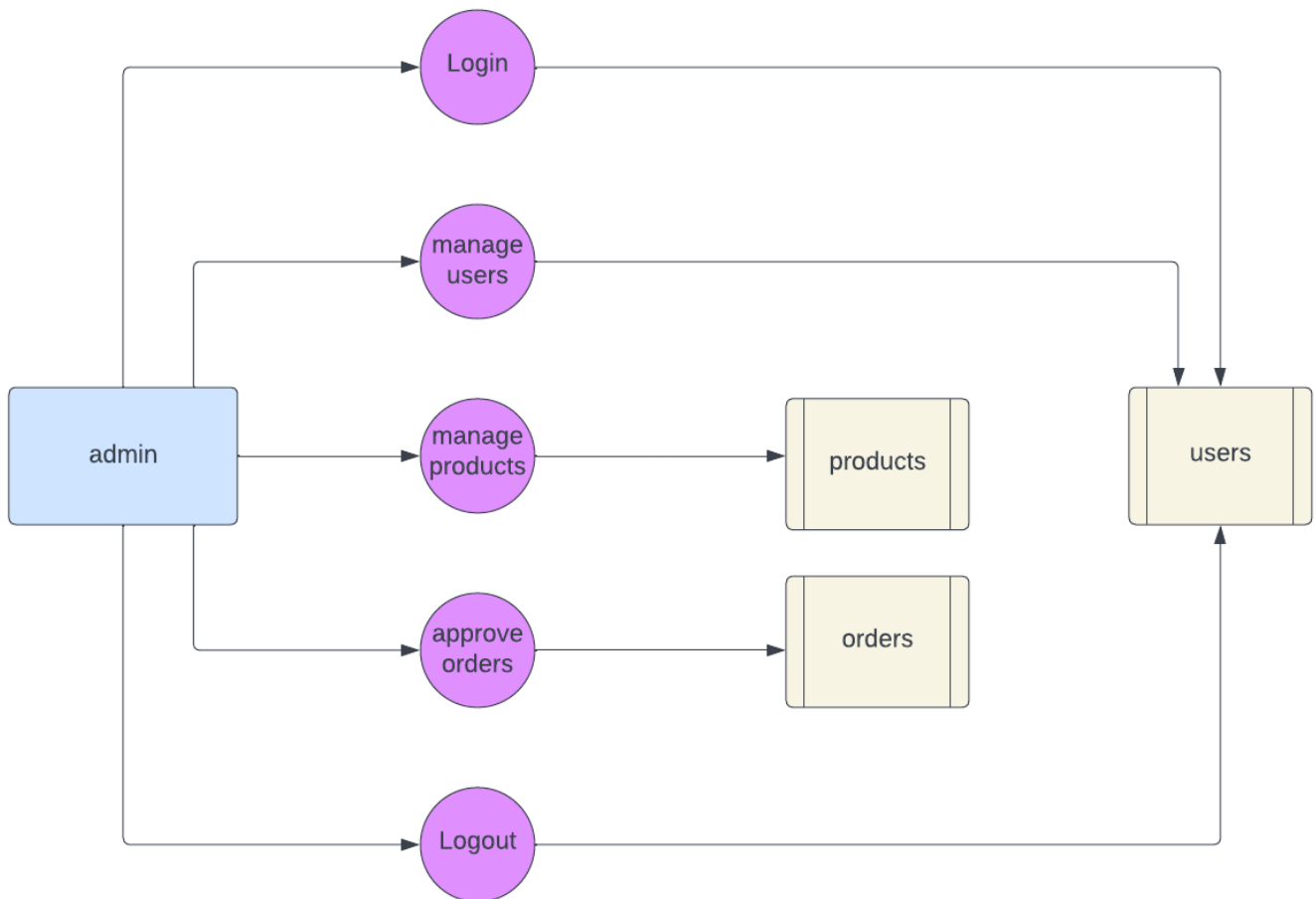


## LEVEL 2.1:

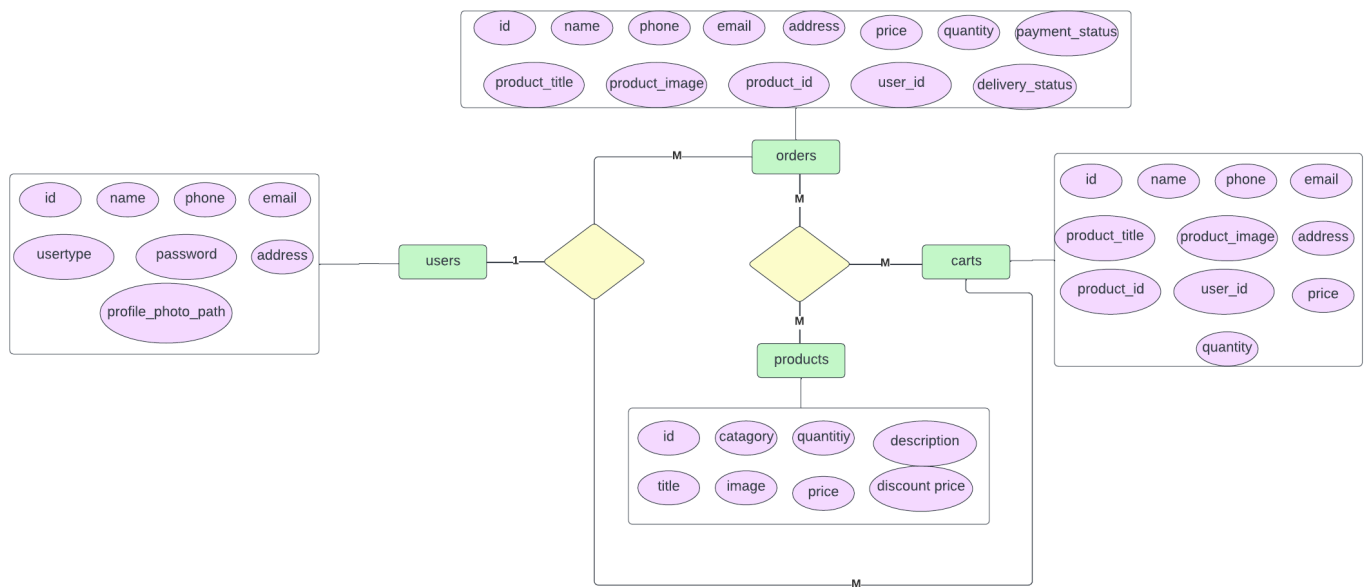


## LEVEL 2.2:

+



## 7.2 ENTITY RELATIONSHIP DIAGRAM



## 7.3 DATABASE DESIGN

### Design of Tables

#### ❖ users

Field name	Data Type	Constraint
id	bigint(20)	Primary key
name	varchar(255)	
email	varchar(255)	
usertype	varchar(255)	
phone	varchar(255)	
address	varchar(255)	
password	varchar(255)	

#### ❖ products

Field name	Data Type	Constraint
id	bigint(20)	Primary key
title	varchar(255)	
discription	varchar(255)	
image	varchar(255)	
catagory	varchar(255)	
quantity	varchar(255)	
price	varchar(255)	
discount_price	varchar(255)	

## ❖ carts

Field name	Data Type	Constraint
<b>id</b>	bigint(20)	Primary key
<b>name</b>	varchar(255)	
<b>phone</b>	varchar(255)	
<b>email</b>	varchar(255)	
<b>address</b>	varchar(255)	
<b>Product_title</b>	varchar(255)	
<b>price</b>	varchar(255)	
<b>quantity</b>	varchar(255)	
<b>product_image</b>	varchar(255)	
<b>product_id</b>	varchar(255)	
<b>user_id</b>	varchar(255)	

## ❖ orders

Field name	Data Type	Constraint
id	bigint(20)	Primary key
name	varchar(255)	
phone	varchar(255)	
email	varchar(255)	
address	varchar(255)	
Product_title	varchar(255)	
price	varchar(255)	
quantity	varchar(255)	
product_image	varchar(255)	
product_id	varchar(255)	
user_id	varchar(255)	
delivery_status	varchar(255)	
payment_status	varchar(255)	





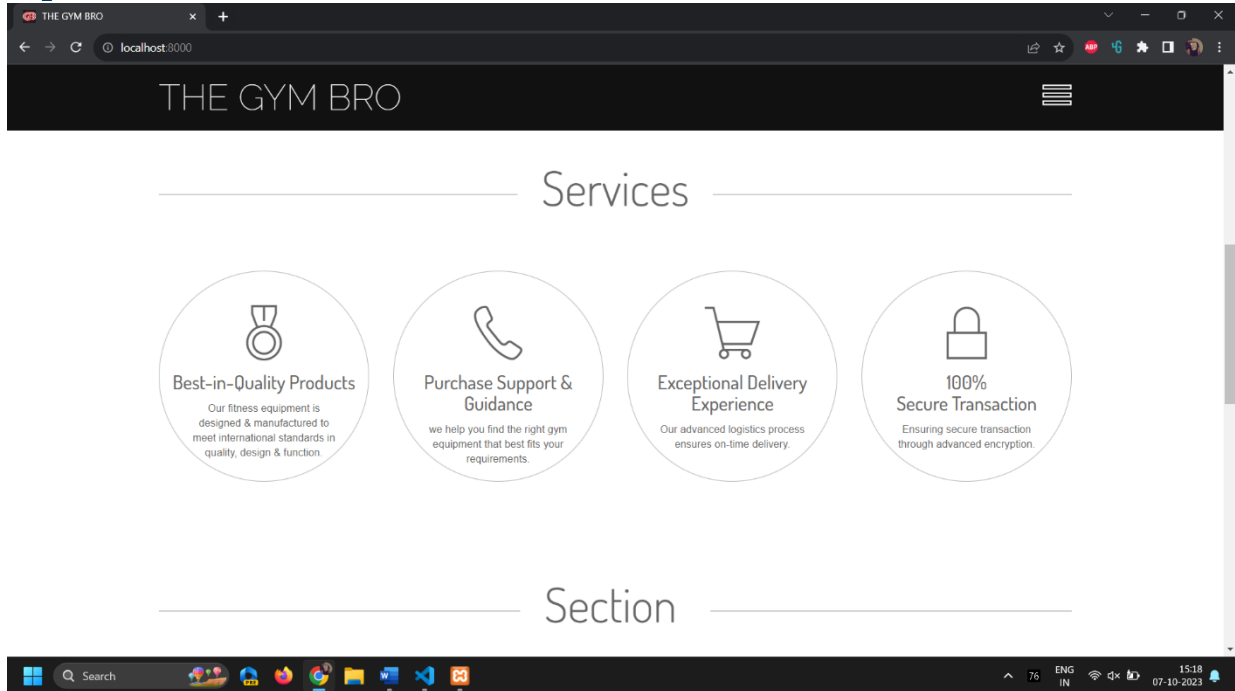
## SYSTEM DESIGN

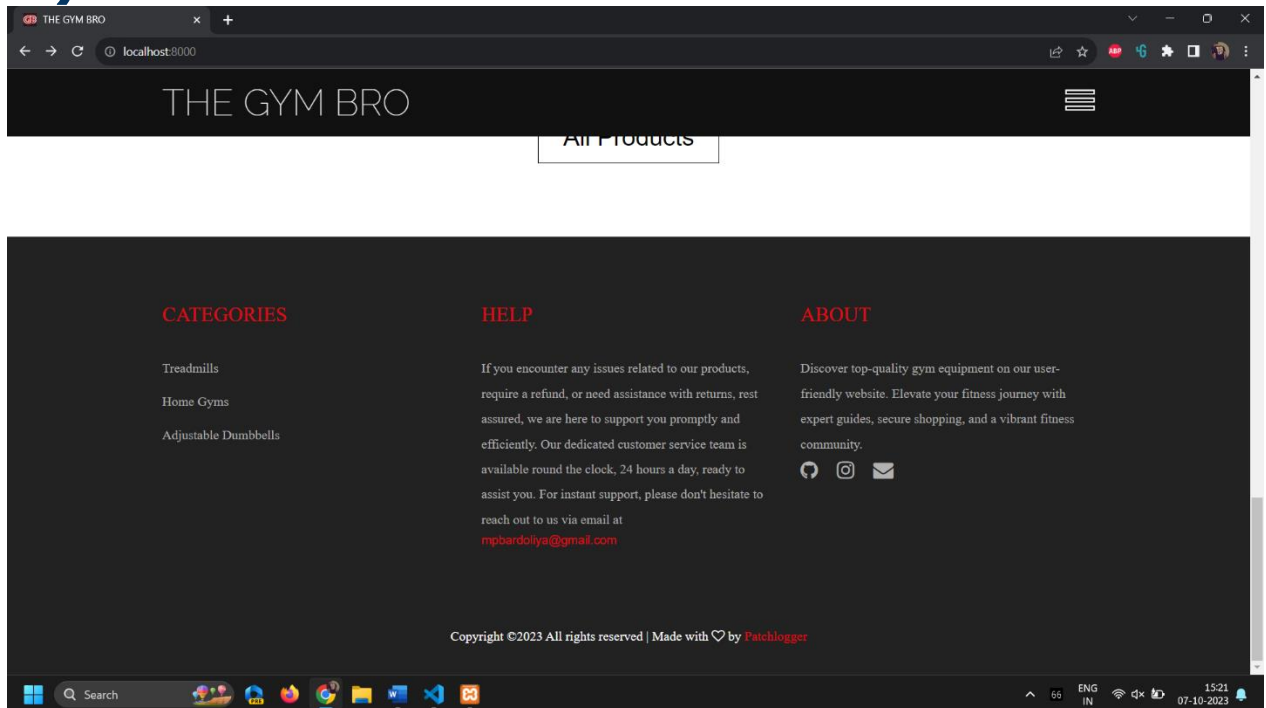
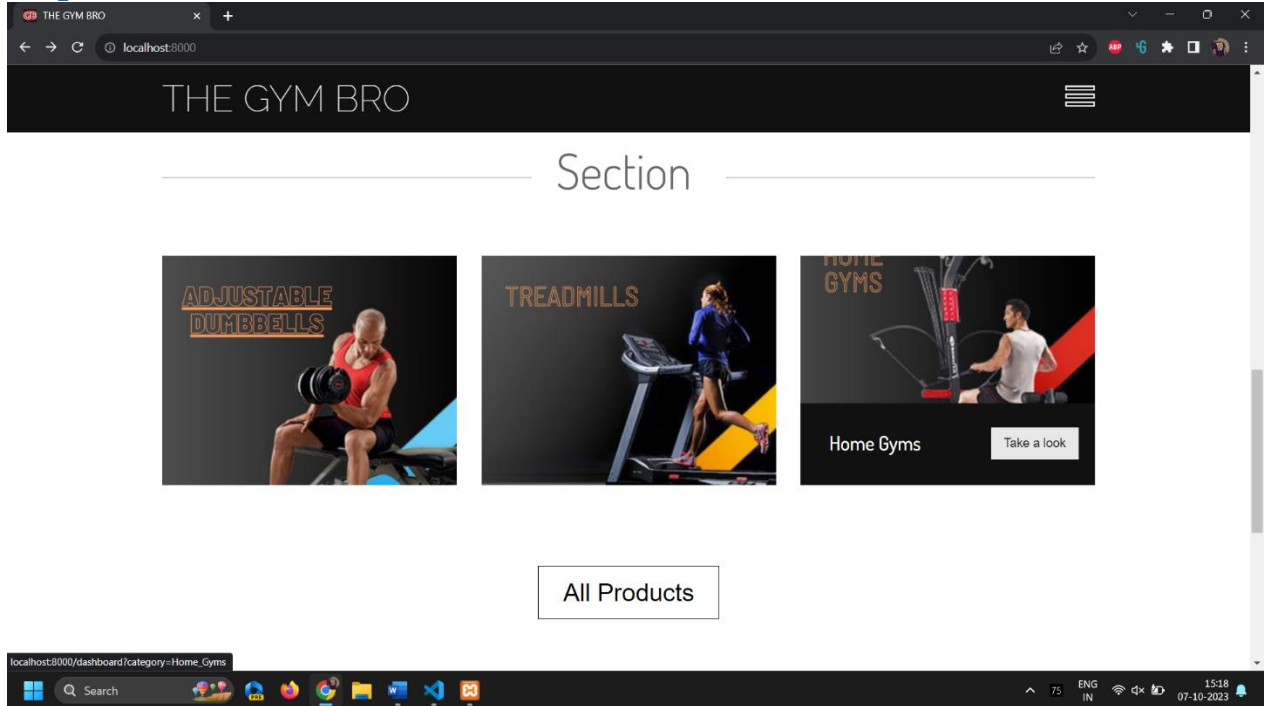
# SYSTEM DESIGN

## Home page:

i)

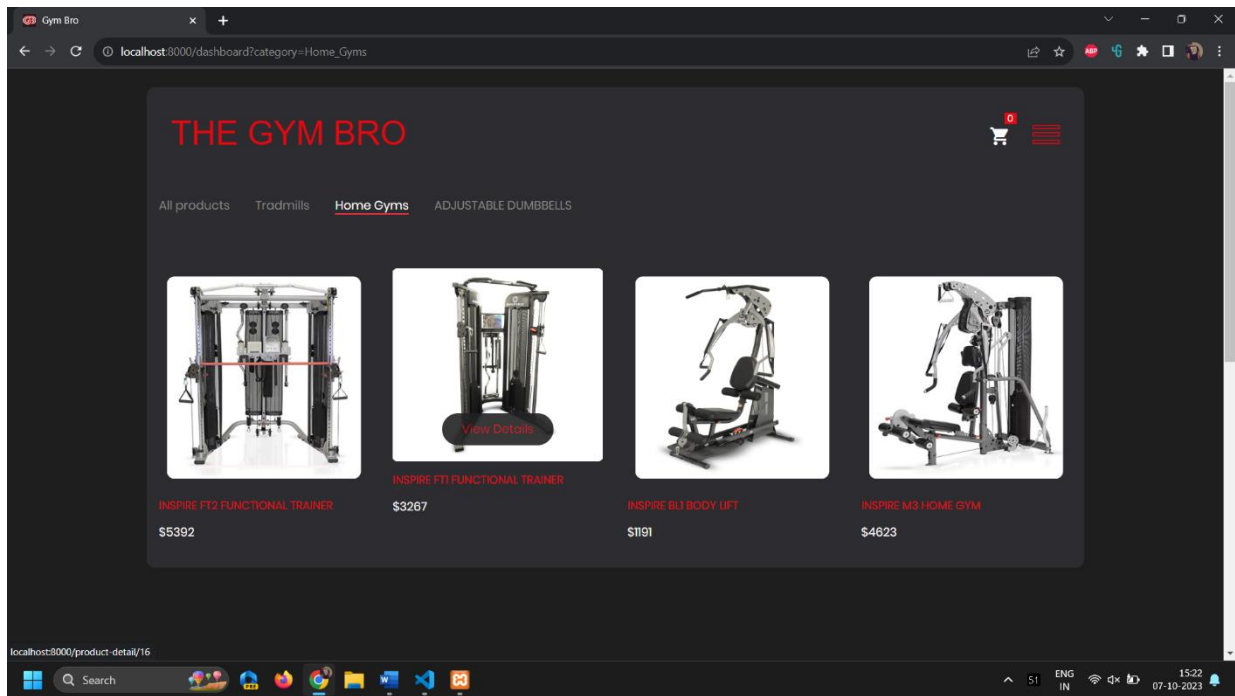


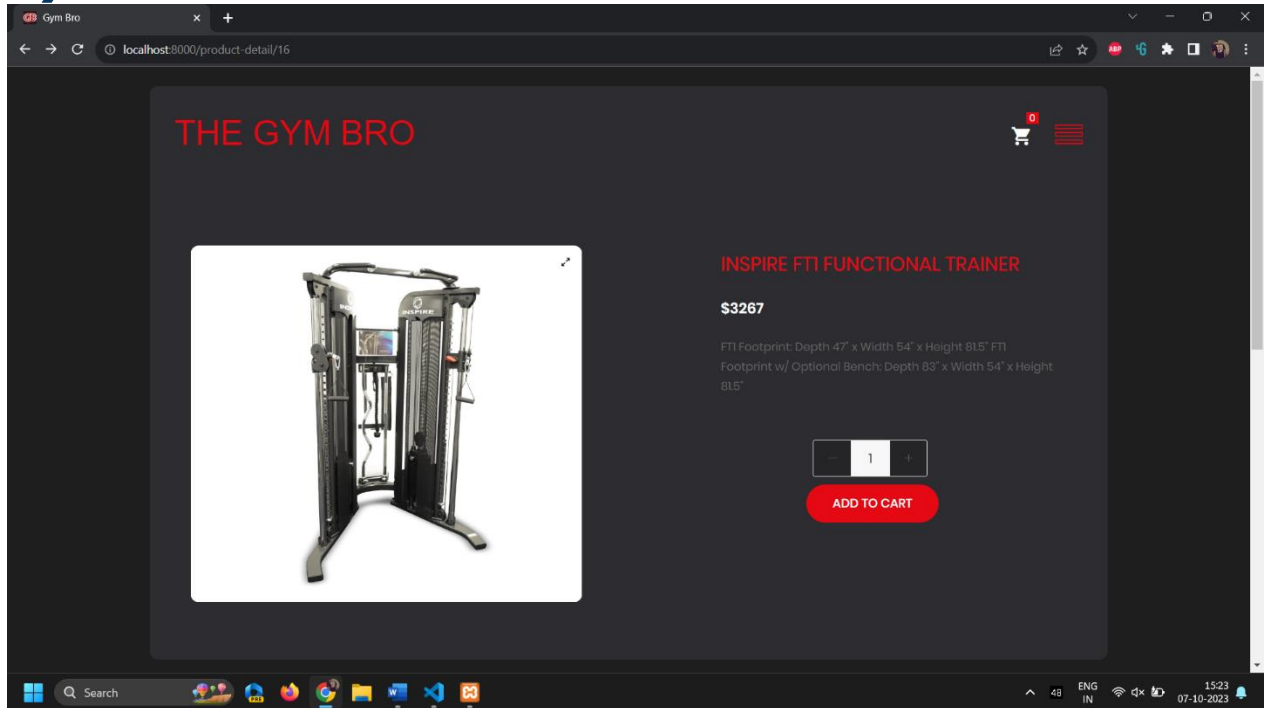




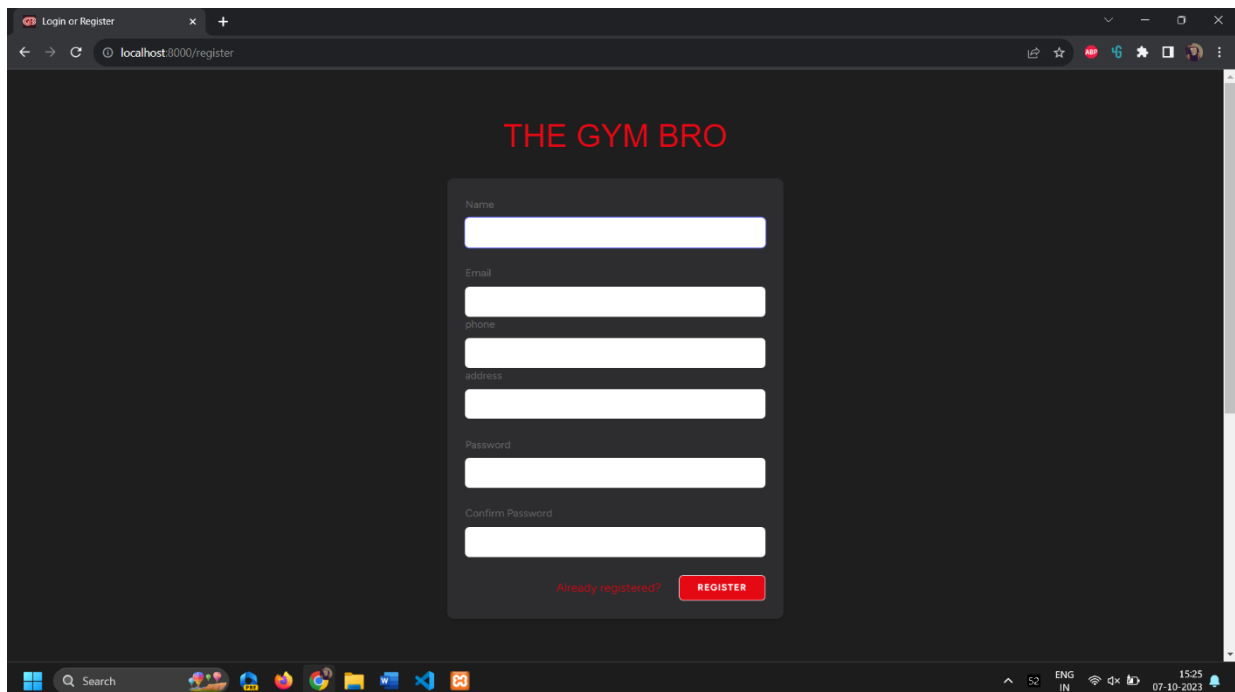
# Products page:

i)

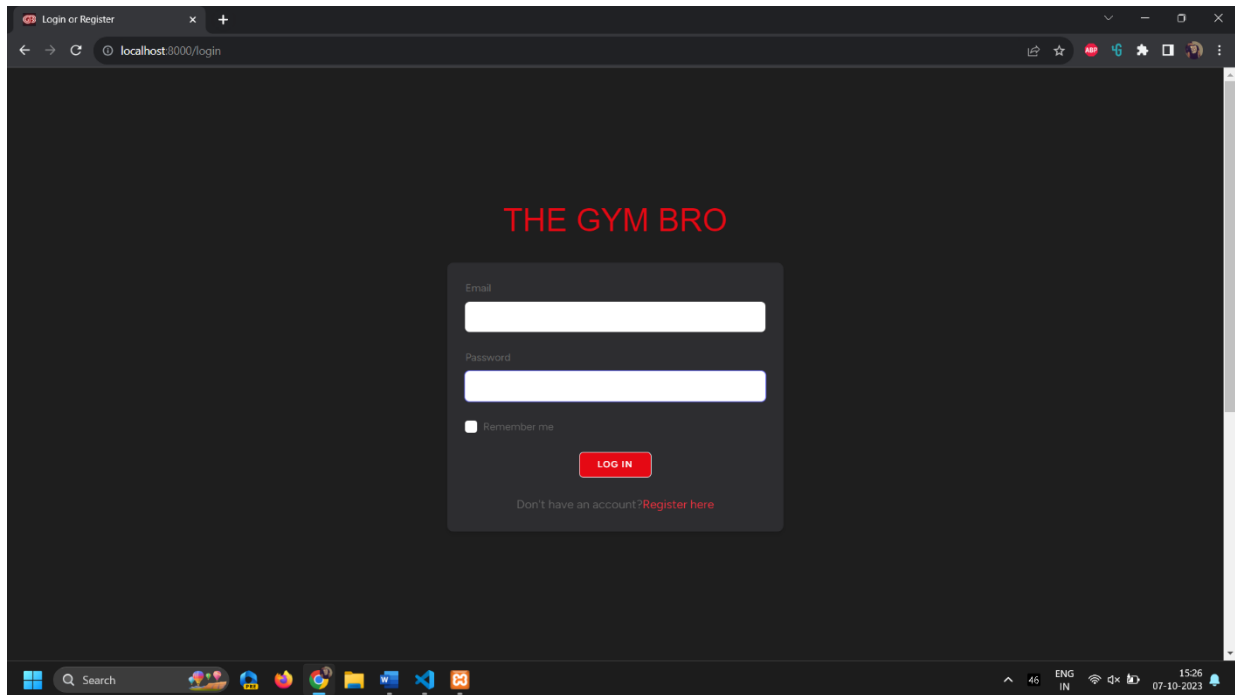




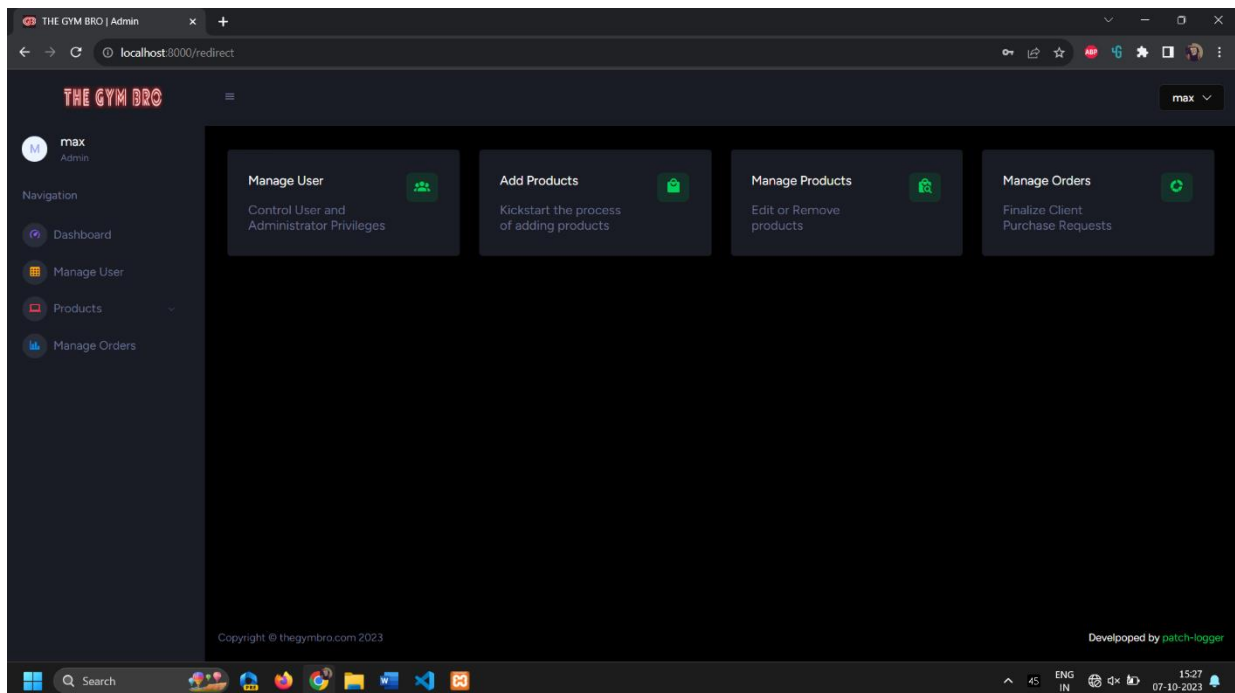
## Sign up page:



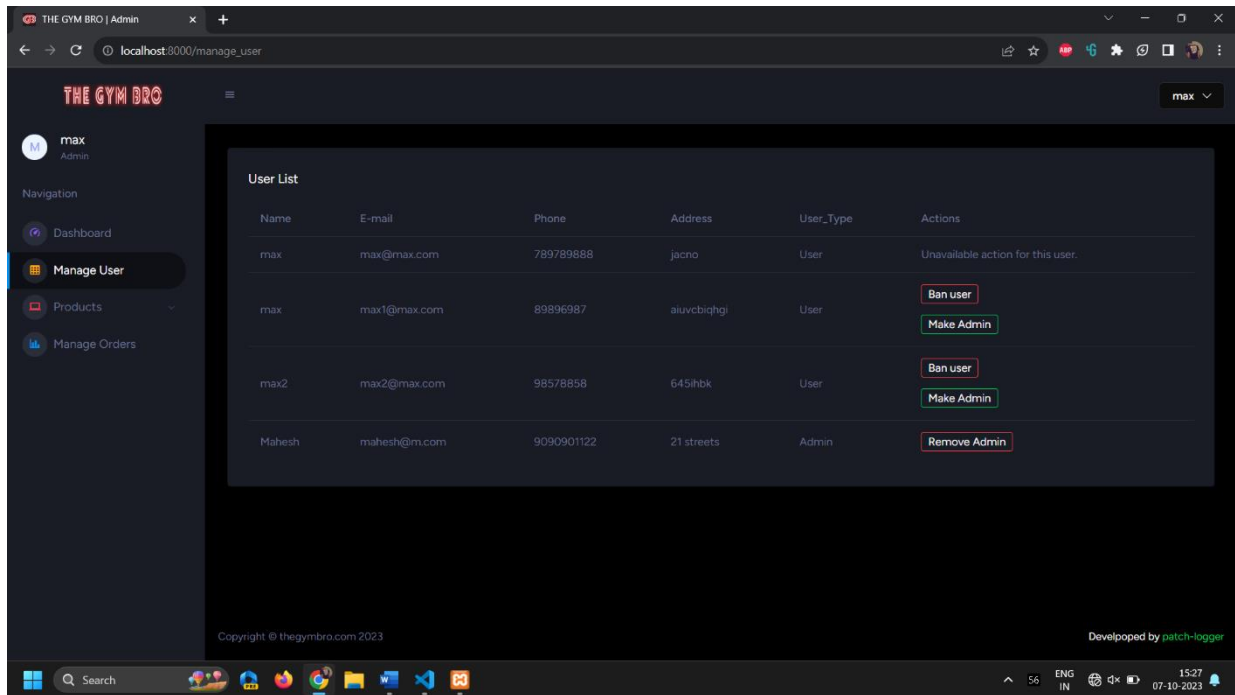
## Login page:



## Admin home page:

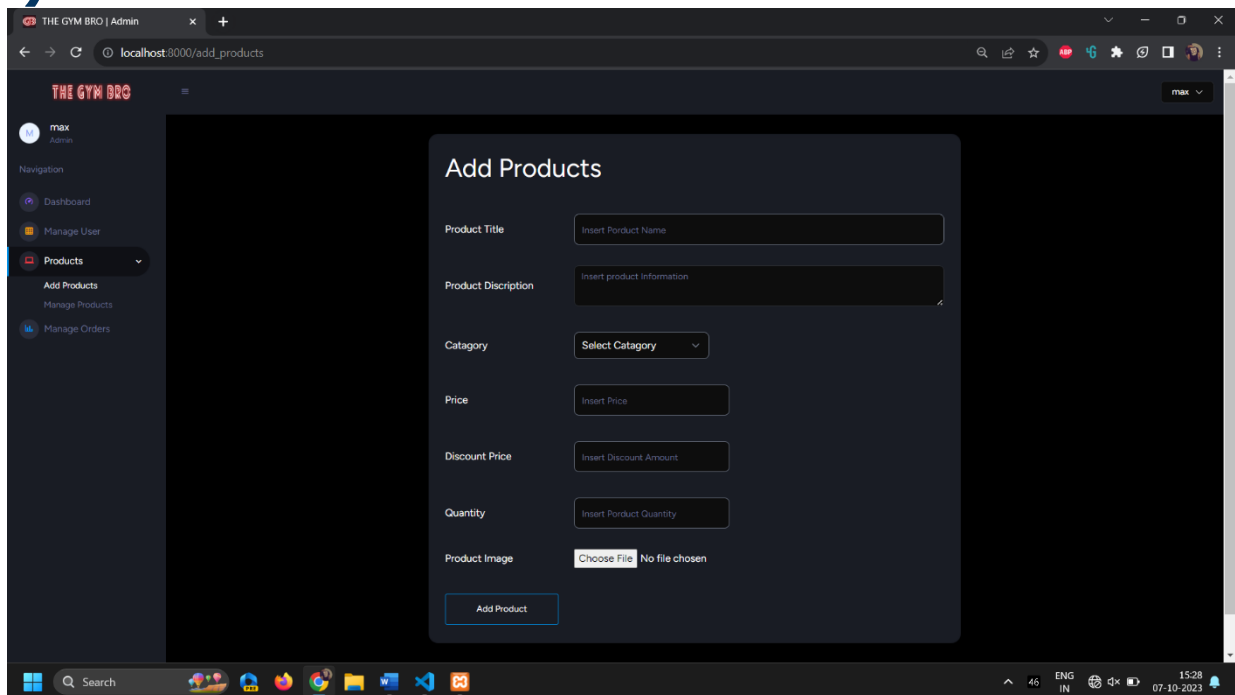


## User management page:



## Products management page:

i)





The screenshot shows the 'THE GYM BRO' Admin interface. The left sidebar contains navigation links: Dashboard, Manage User, Products (selected), Add Products, Manage Products, and Manage Orders. The main content area displays a 'Products List' table with the following data:

Title	Image	Category	Price	Discount Price	Quantity	Actions
CO-FIT 0065EB HOME TREADMILL	link	Treadmills	386	299	50	<a href="#">Manage</a>
BH FITNESS G6310 RUNLAB HOME TREADMILL	link	Treadmills	856	493	50	<a href="#">Manage</a>
BH FITNESS G6162 RC01 TREADMILL	link	Treadmills	1720	1530	51	<a href="#">Manage</a>
BH FITNESS G6487 PIONEER R3 TREADMILL	link	Treadmills	1213		50	<a href="#">Manage</a>
INSPIRE FT2 FUNCTIONAL TRAINER	link	Home_Gyms	5392		50	<a href="#">Manage</a>
INSPIRE FT1 FUNCTIONAL TRAINER	link	Home_Gyms	3267		50	<a href="#">Manage</a>
INSPIRE BL1 BODY LIFT	link	Home_Gyms	1191		51	<a href="#">Manage</a>
INSPIRE M3 HOME GYM	link	Home_Gyms	4623		50	<a href="#">Manage</a>
BOWFLEX BFX-840 KETTLE BELLS	link	Adjustable_Dumbbells	513	240	50	<a href="#">Manage</a>
BOWFLEX 2080 SELECT TECH BARBELL WITH CURL BAR	link	Adjustable_Dumbbells	1343	1142	50	<a href="#">Manage</a>
BOWFLEX 10901 ADJUSTABLE DUMBBELLS	link	Adjustable_Dumbbells	1677	1382	50	<a href="#">Manage</a>

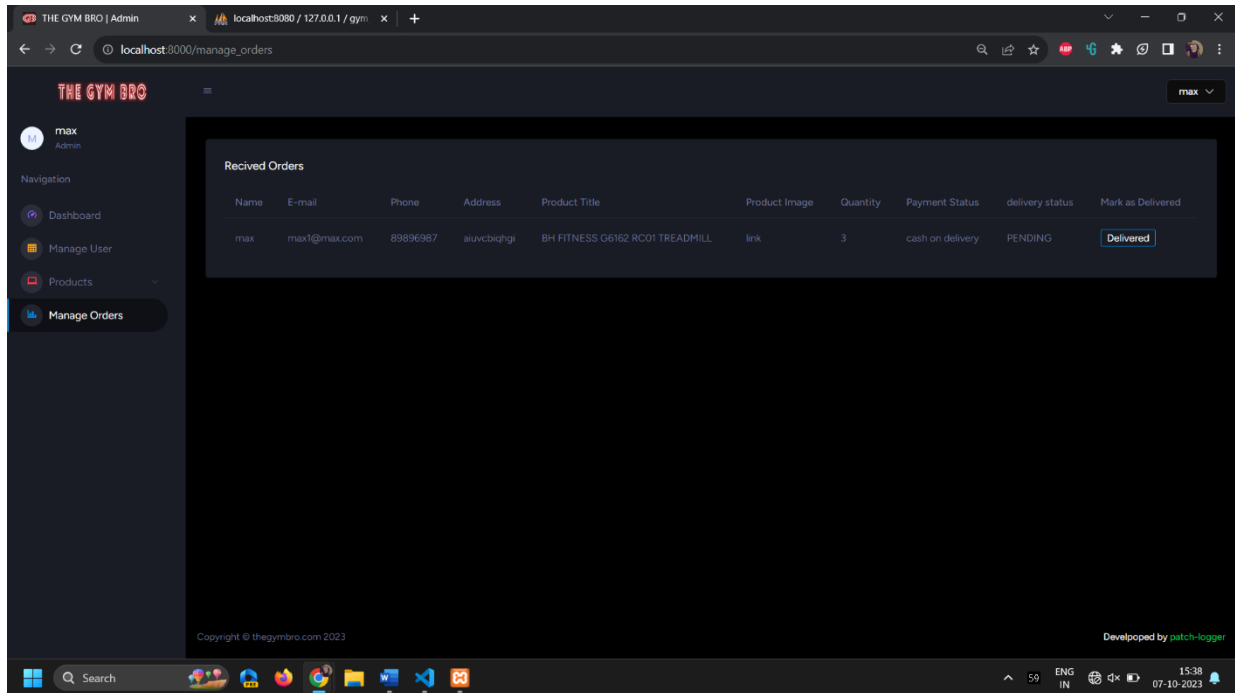
The screenshot shows the 'THE GYM BRO' Admin interface with the 'Update Product' form. The form contains the following fields and options:

- Product Title:** CO-FIT 0065EB HOME TREADMILL
- Product Description:** Motor - 125 HP, Console - F LED
- Category:** Treadmills
- Price:** 386
- Discount Price:** 299
- Quantity:** 50
- Product Image:** A small image of a treadmill is shown. Below it is a 'Choose File' button and the text 'No file chosen'.

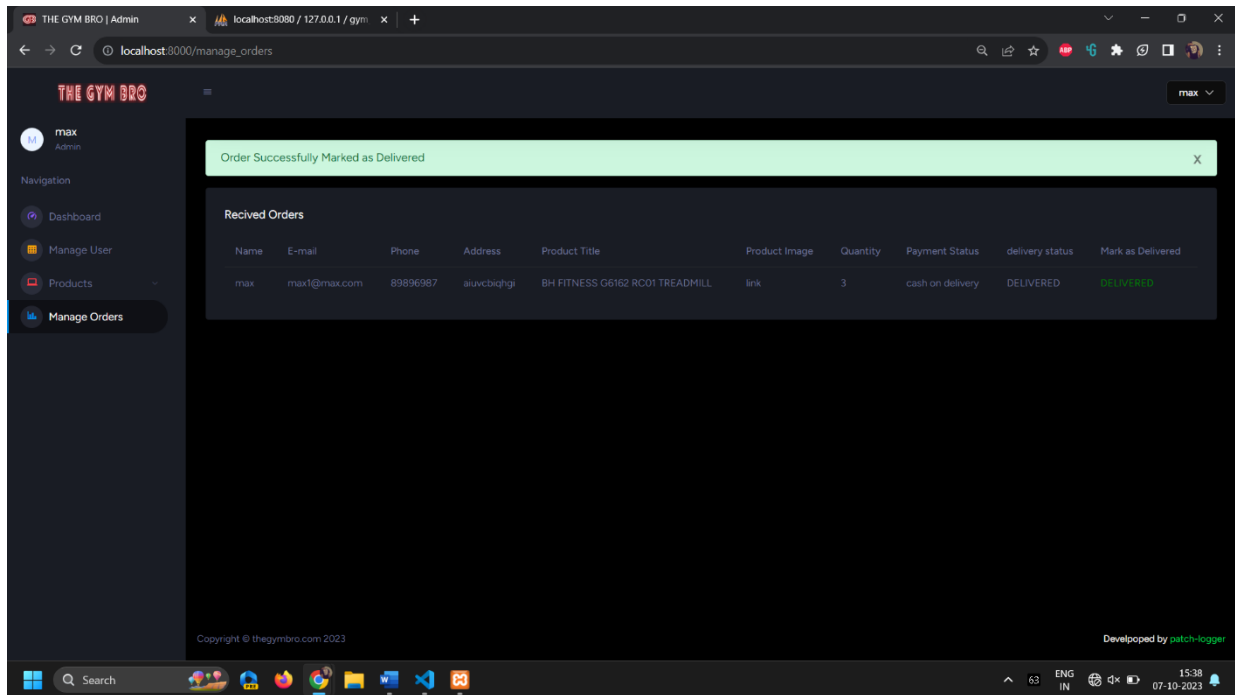
At the bottom of the form, there are two buttons: 'Update Product' (green) and 'Remove Product' (red), separated by an 'OR' label.

# Order Management Page:

## Before admin approval.

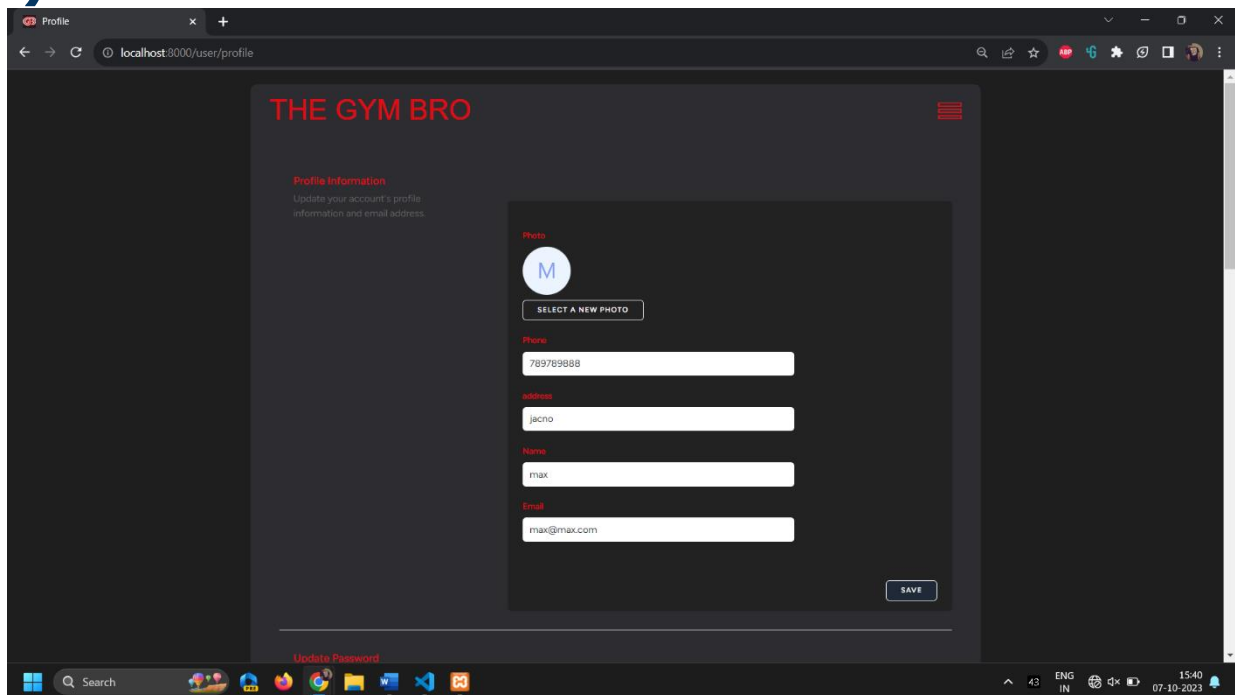


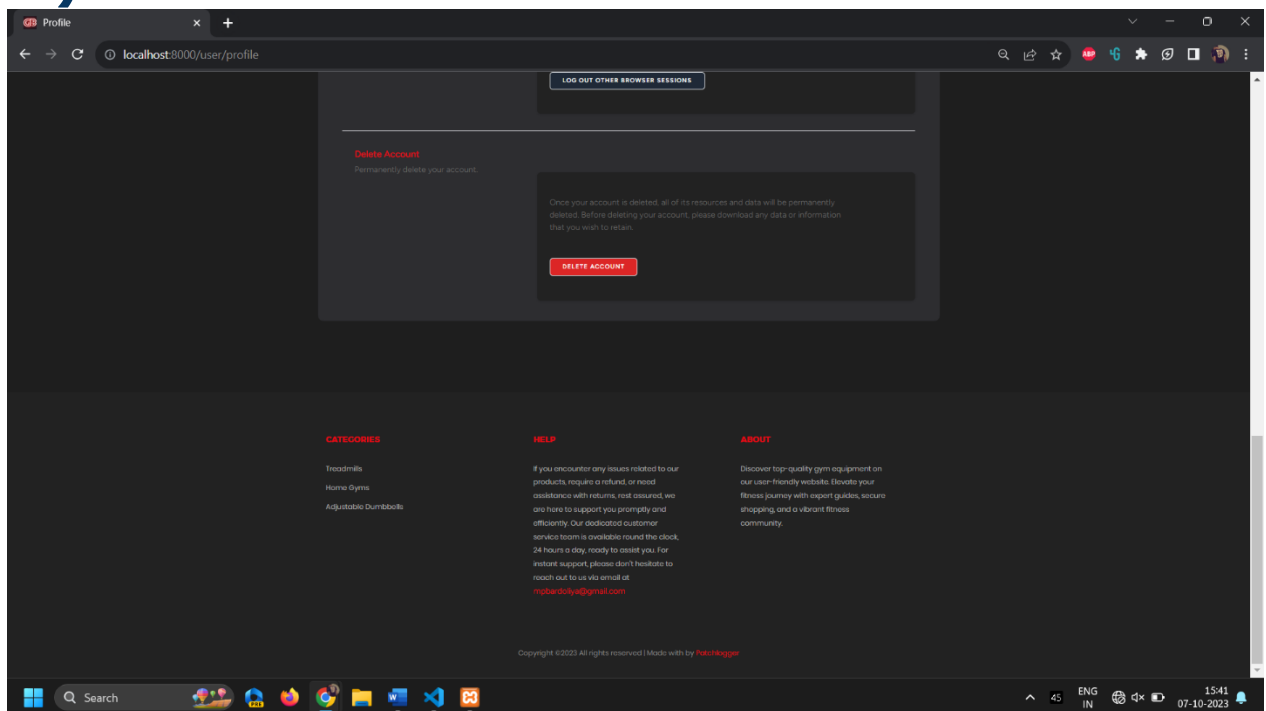
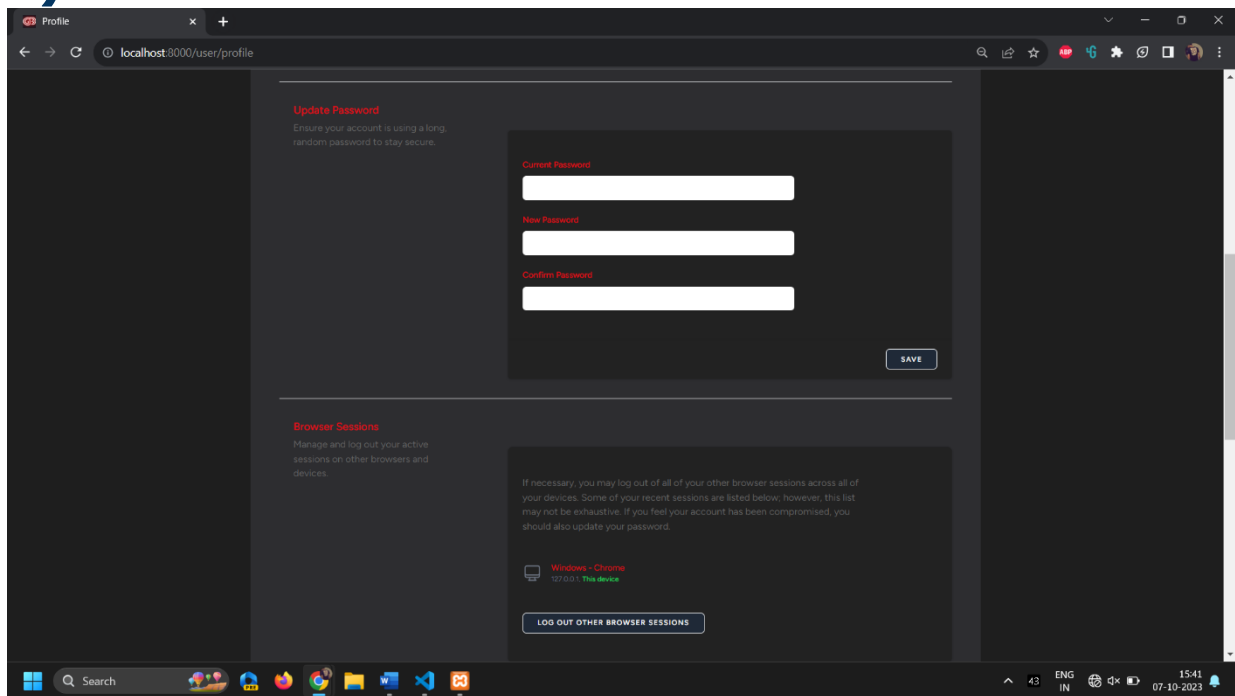
## ii) After admin approved.



## User profile page:

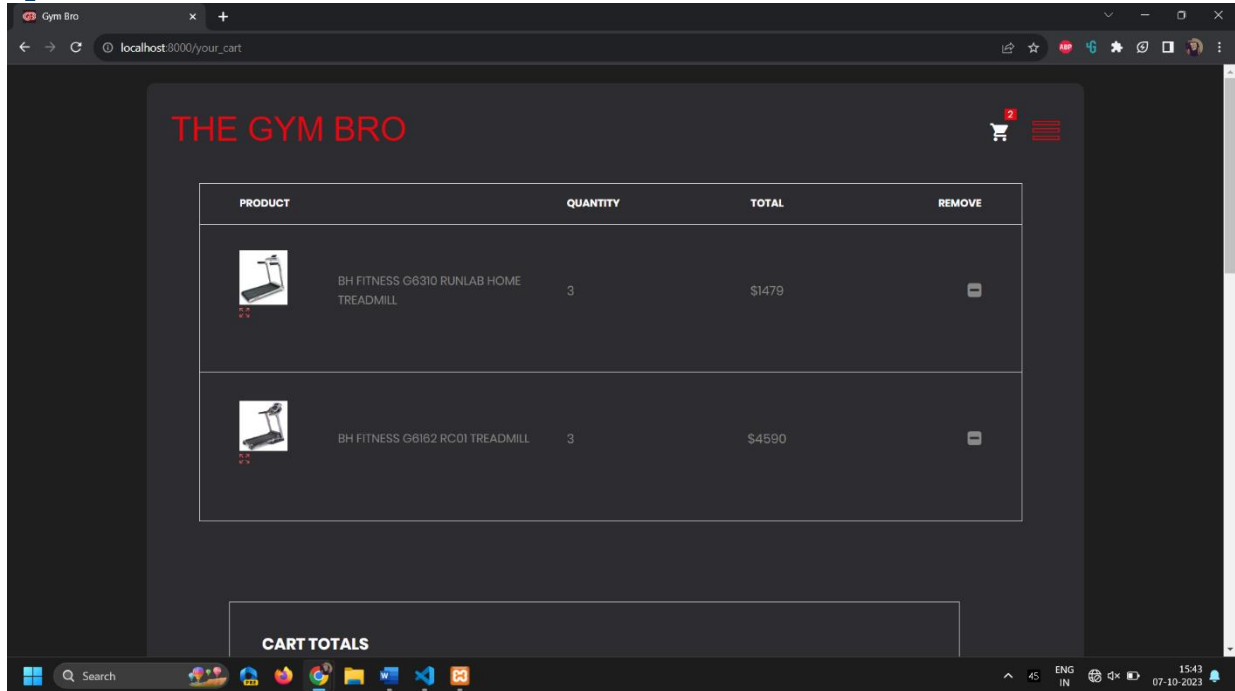
i)



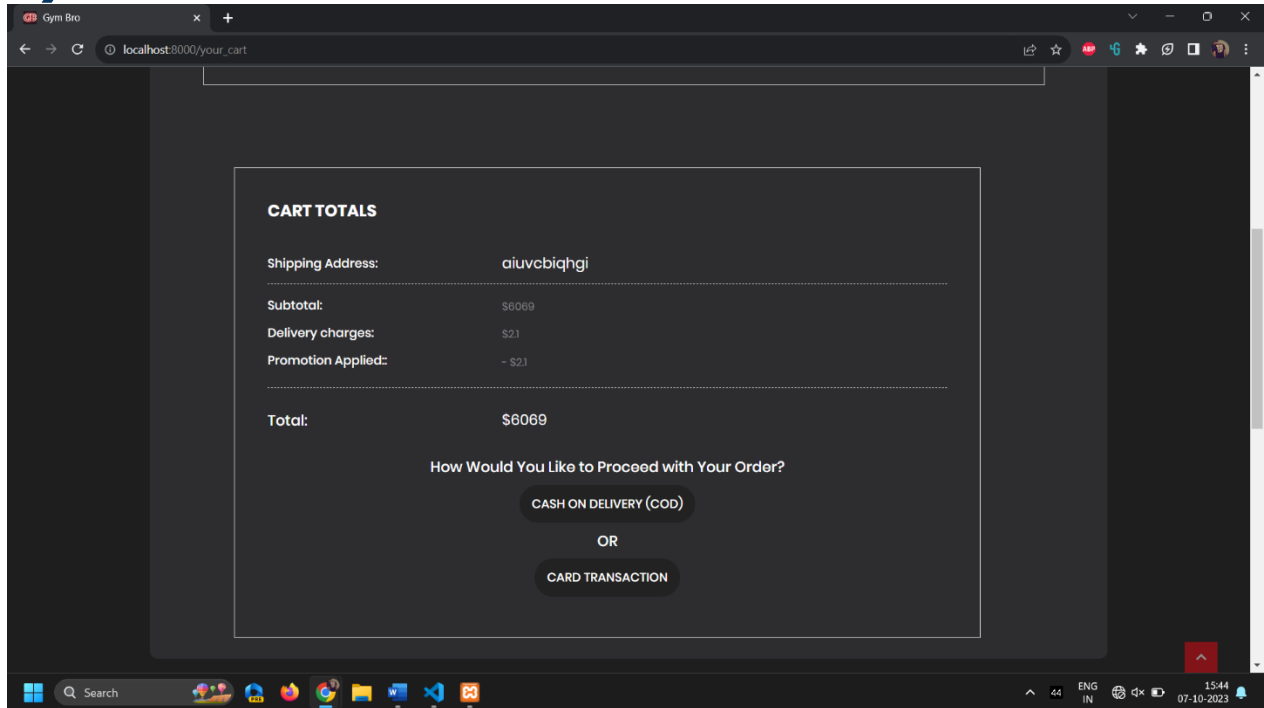


## Cart and checkout page:

i)

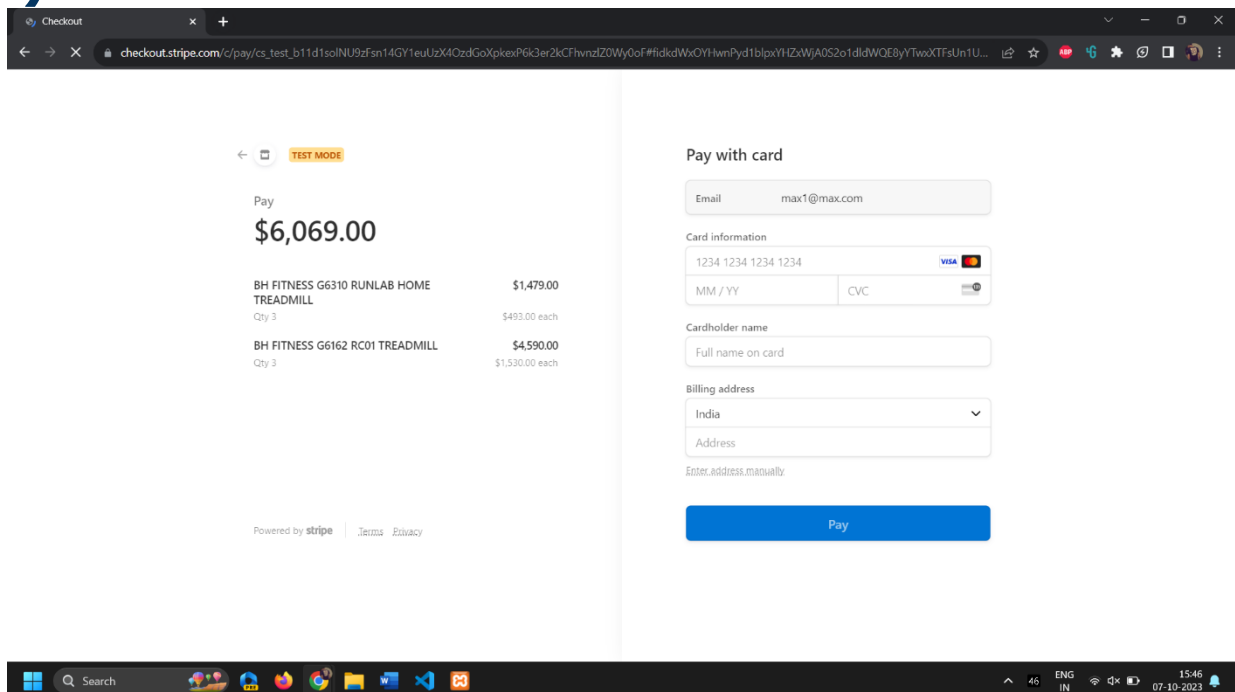


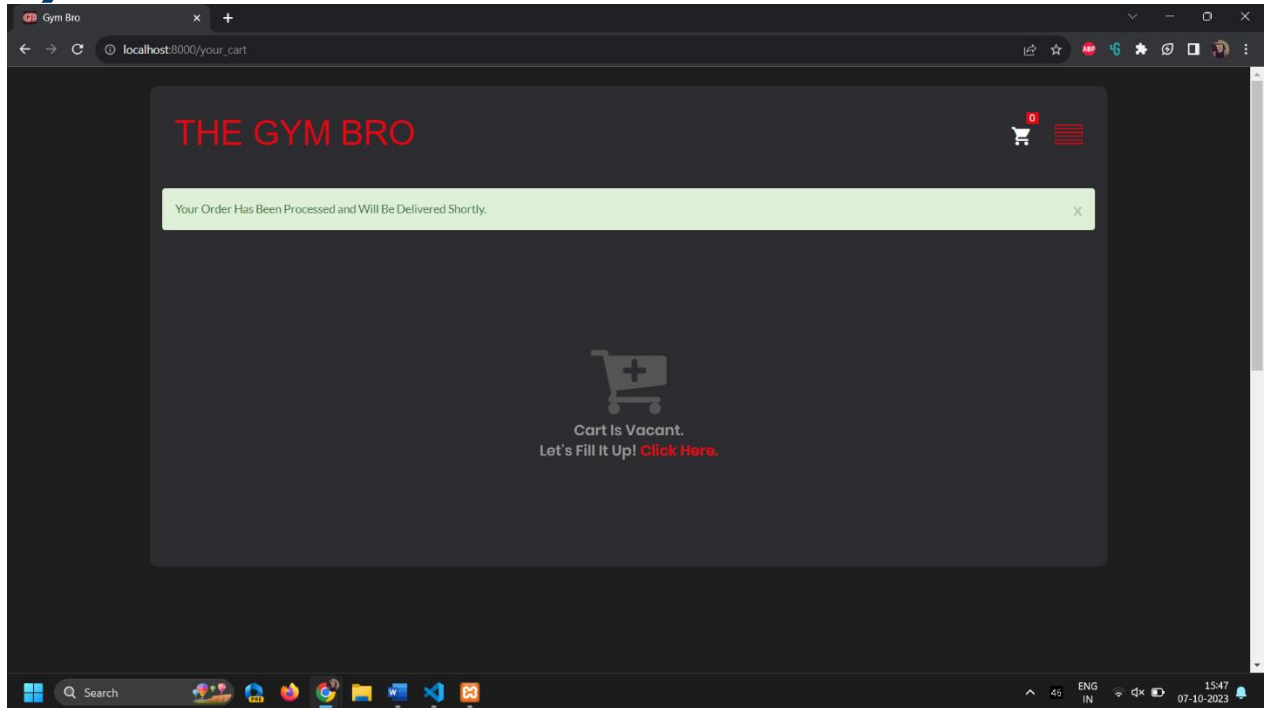
ii)



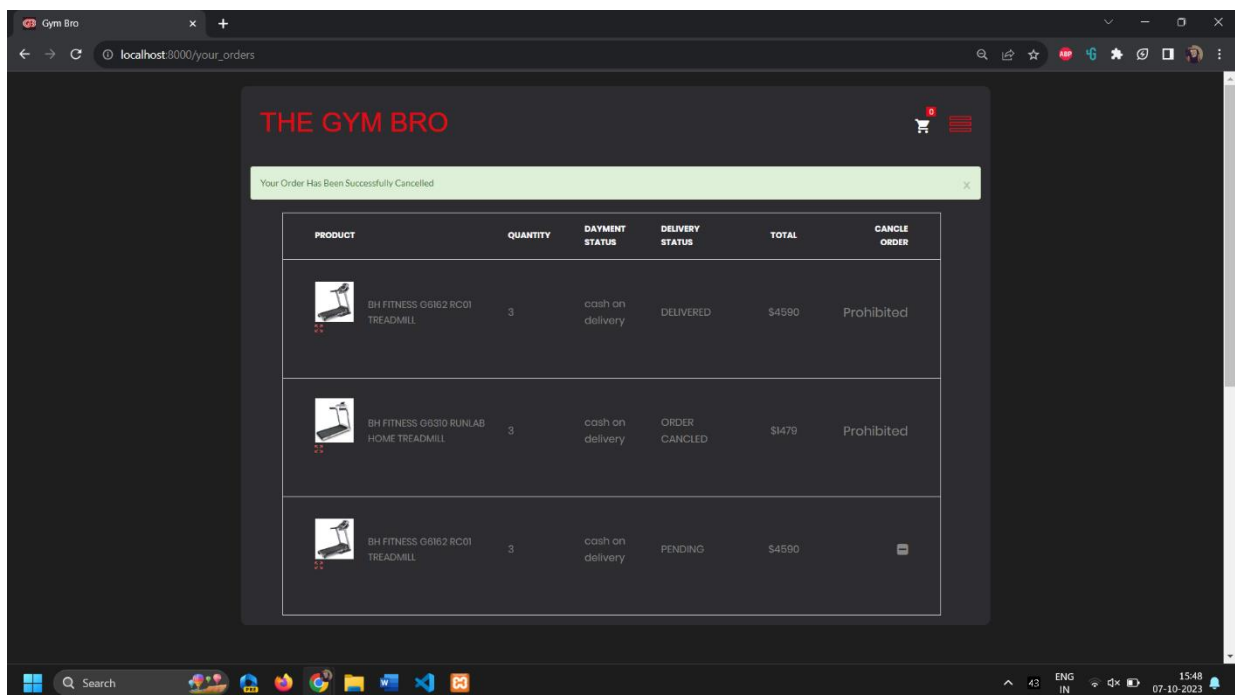
## Payment gateway:

i)





## Orders Page:





# **SYSTEM TESTING**

**9.1 Unit Testing**

**9.2 Integration Testing**



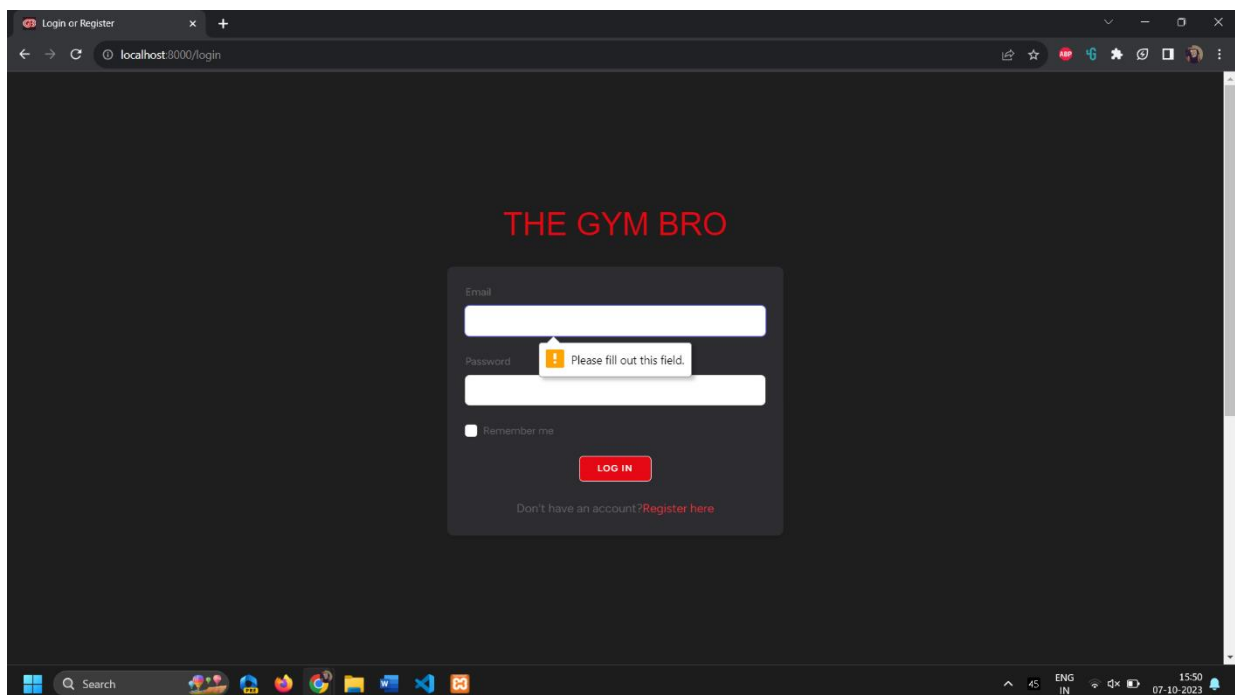
## 9.1 UNIT TESTING

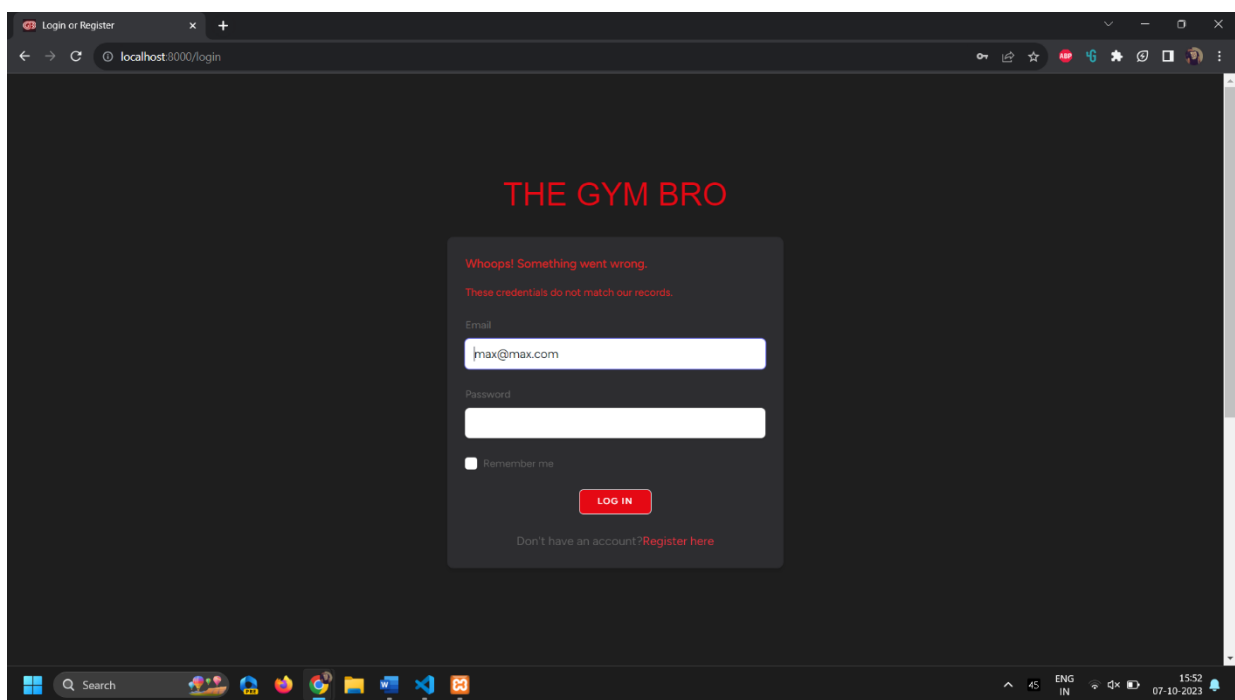
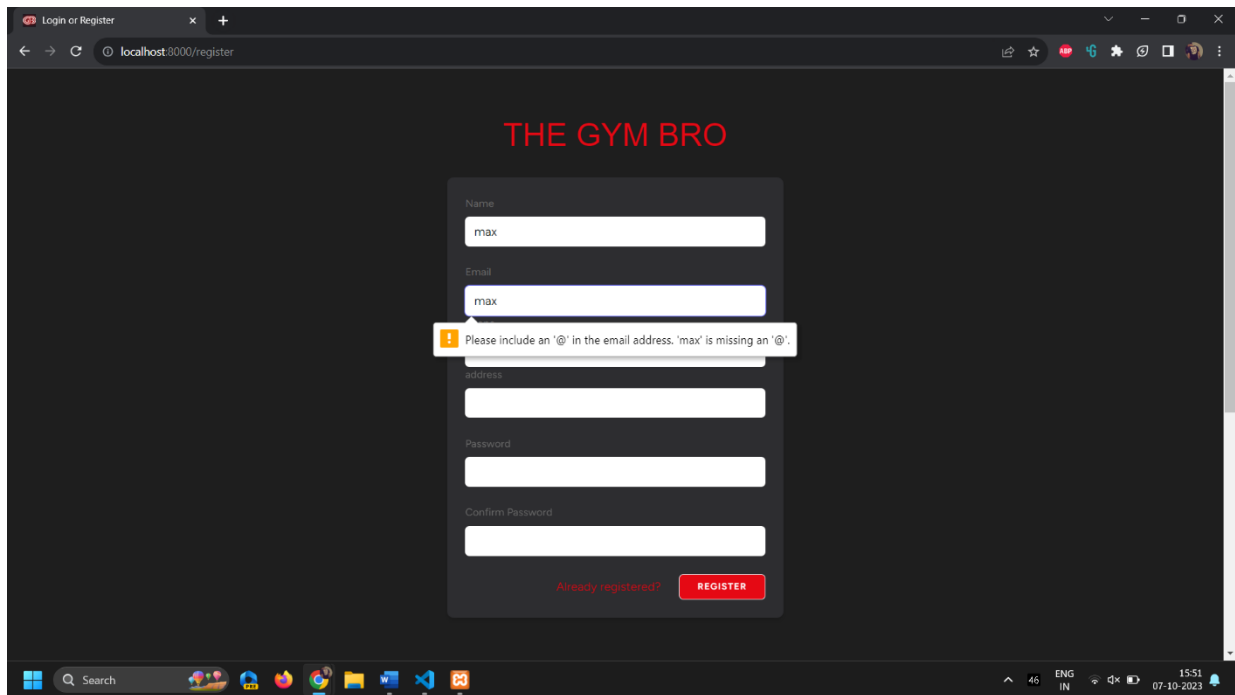
This is the lowest level of testing that is conducted to remove syntax & logic errors from a single unit. Individual components are tested to ensure that they operate correctly. Each component is tested independently, without other system components.

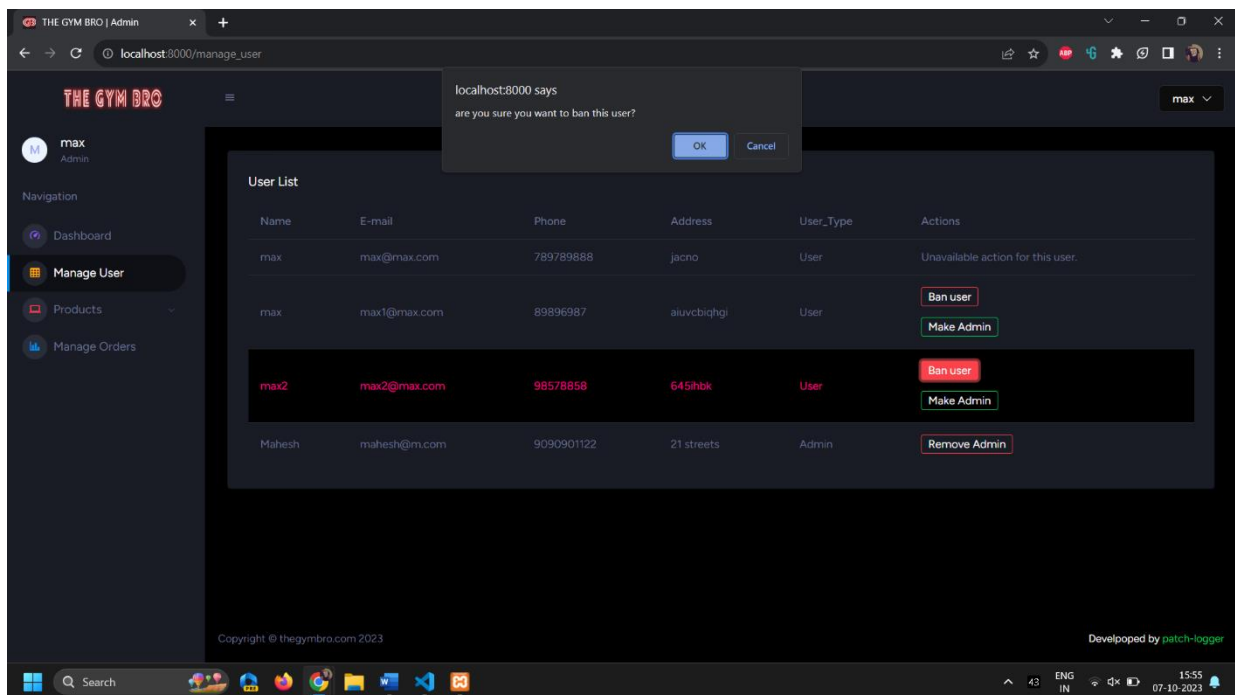
This phase involves testing collection of modules, which have been integrated into sub-system. These testes for problems that arise form component interactions. This testing should begin as soon as usable version of some of the system components is available.

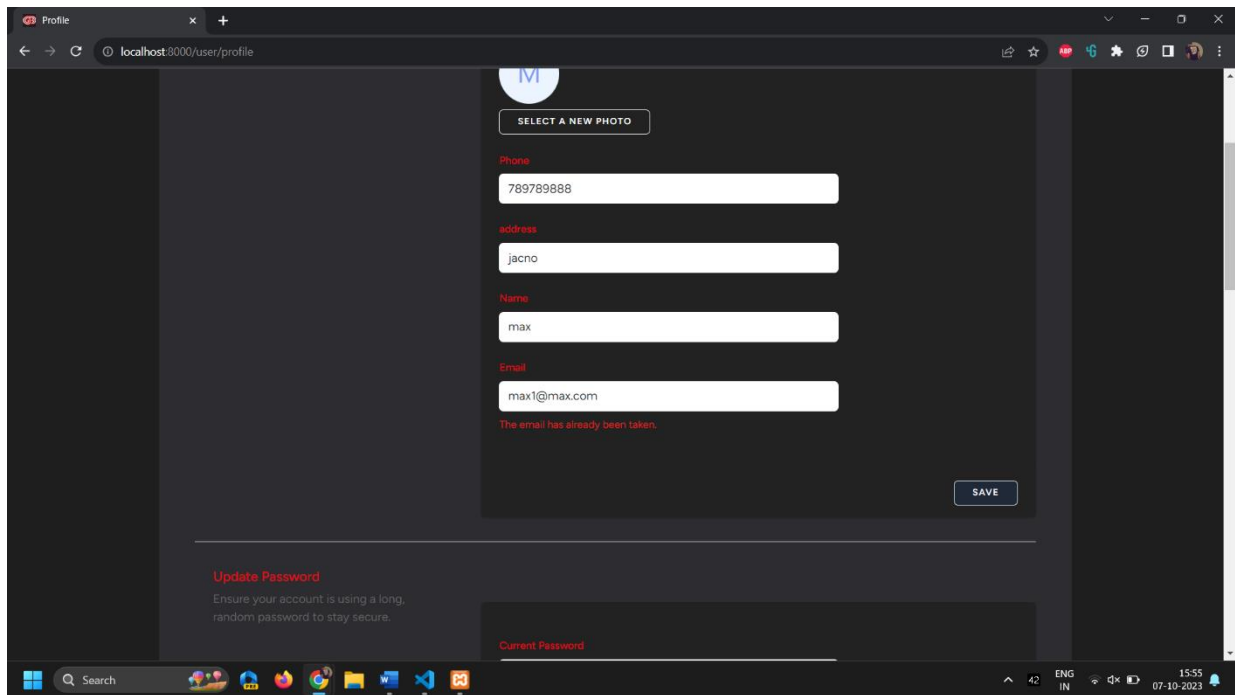
## 9.2 INTEGRATION TESTING

This is the final stage in the testing process before the system is accepted for operational use. The system is tested with data supplied by the system customer rather than simulated test data. Acceptance testing may reveal errors & omissions in the system requirements definition because the real data exercise the system in different ways from the test data. It may also reveal requirements problems where the system's facilities do not really meet the user's needs or the system performance is unacceptable.











## REFERENCES

# REFERENCES

## Websites :

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