

UE21CS351A: Database Management System

MINI PROJECT USER REQUIREMENT SPECIFICATION

Title: E-Commerce Website

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Table of Contents

1.Introduction

- Purpose of the project
- Scope of the project

2.Project Description

- Project overview
- Major project functionalities

3.System Features and Function Requirements

4. E R Diagram

5. Relational Schema

Introduction

Purpose of the Project

Our Project, “E-Commerce Website” involves the development of an E-commerce website that enables users to search for, and purchase products online. It will provide a platform for buyers to shop conveniently from a wide range of categories.

The primary purpose of this project is to create an online marketplace that facilitates seamless transactions. It aims to provide a user-friendly and secure platform for e-commerce activities, including product listing, shopping cart management, order processing, and payment handling.

The system will be implemented using PHP for the backend and MySQL as the database management system. The aim of this project is to develop a fully functional E-Commerce website while emphasizing the learning of PHP programming and MySQL database management.

Scope of the Project

The project scope includes:

1. User Registration and Authentication
2. Product Listing and Management
3. Shopping Cart and Checkout
4. Order Management
5. Payment Processing
6. Admin Panel for Site Management
7. Search and Filter Functionality
8. Interactive Design

Project Description

Project overview

The project, E-Commerce website will be a dynamic platform where users can perform various actions related to online shopping. It will have a user-friendly interface with product listing, shopping cart management, order processing, payment handling and robust security measures to ensure safe transactions.

Major project functionalities

1. User Registration and Authentication: Users can create accounts, log in, and manage their profiles.
2. Product Listing and Management: Products are listed with details, including images, prices, and descriptions.
3. Shopping Cart and Checkout: Buyers can add products to their cart, review their selections, and complete the purchase.
4. Order Management: Users can view their order history and check the status of current orders.
5. Payment Processing: The system will integrate with payment gateways to handle transactions securely.
6. Admin Panel: Admins can manage users, products, and oversee site operations.
7. Search and Filter Functionality: Users can search for products and filter results based on various criteria.
8. Interactive Design: The website facilitates seamless and user-friendly transactions.

System Features and Function Requirements

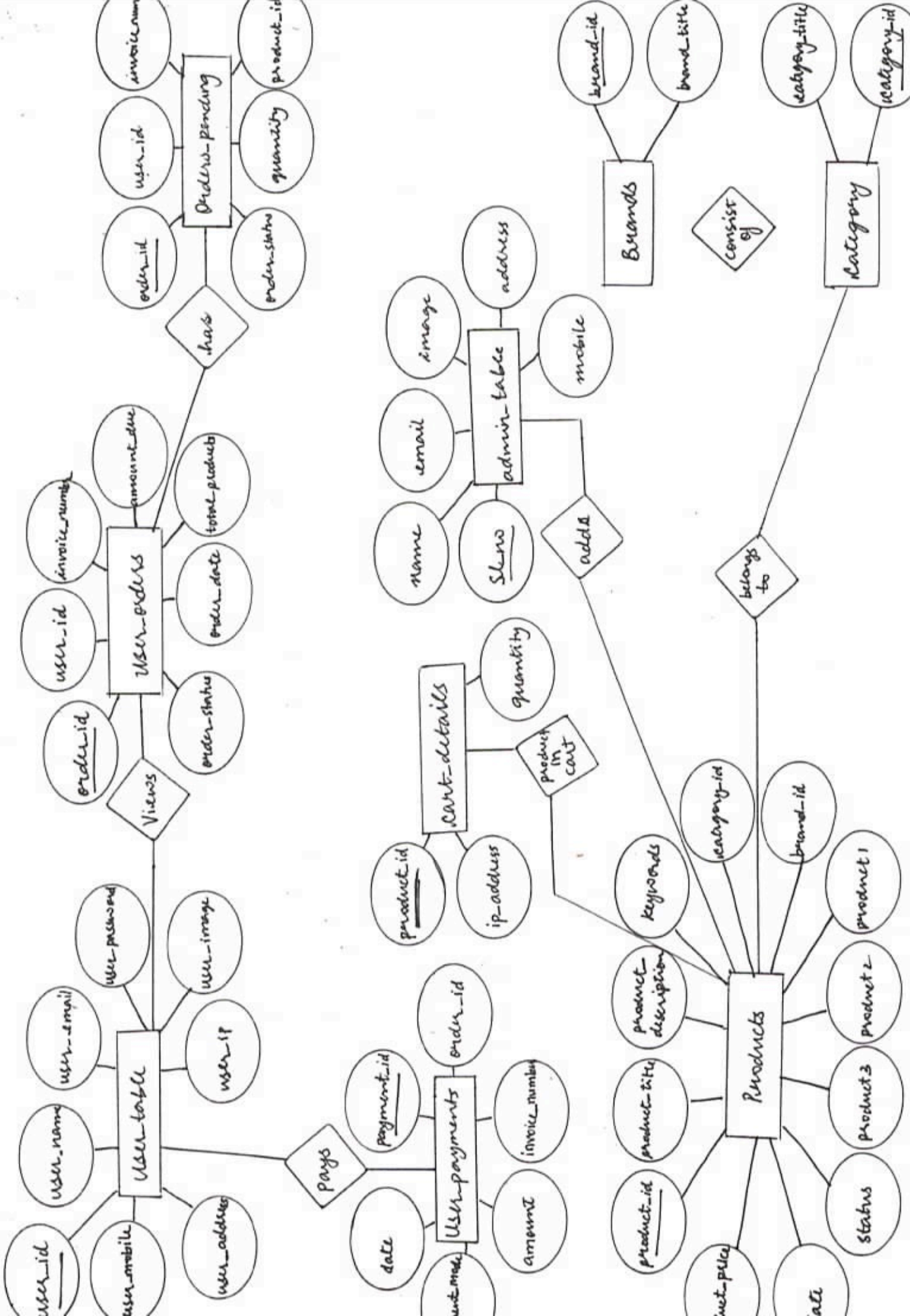
We use XAMPP which has Apache as local server and MySQL as database.

We code in PHP which is a server-side scripting language. We use HTML, Javascript and CSS.

Database management using MySQL with the "mystore" database having tables including categories, brands, products, cart_details, user_table, user_orders, orders_pending, user_payments, and admin_table.

1. Secure user authentication and authorization required for user registration and login functionality.
2. Profile management for users.
3. Product catalog with categories and subcategories to display items.
4. Product listing, editing, and deletion to update the database and website when required.
5. Search functionality to filter products.
6. User-friendly shopping cart and checkout process required for shopping cart management for buyers.
7. Admin panel for site management and user moderation.
8. Integration with popular payment gateways for secure transactions (Eg: Paytm).
9. Order placement, tracking, and history.
10. Responsive web design for optimal user experience on different devices.

ER Diagram - mystore



Relational Schema - mystore

Categories

<u>category_id</u>	category_title
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Brands

<u>brand_id</u>	brand_title
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Products

<u>product_id</u>	product_title	product_description	keywords	category_id	brand_id	product1	product2	product3
						product_price	date	status

Cart_details

<u>product_id</u>	ipaddress	quantity
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User_table

<u>user_id</u>	user_name	user_email	user_password	user_image	user_ip	user_address	user_mobile
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User_orders

<u>order_id</u>	user_id	amount_due	invoice_number	total_products	order_date	order_status
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Orders_pending

<u>order_id</u>	user_id	invoice_number	product_id	quantity	order_status
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User_payments

<u>payment_id</u>	order_id	invoice_number	amount	payment_mode	date
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Admin_table

<u>Sl_no</u>	username	user_email	user_image	user_address	user_mobile
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