Software Requirements Specification (SRS)

Project Name: E-commerce Website System

1. Project Overview

In the 21st century, the advent of digital technology has revolutionized the way we shop and

conduct business. To make online shopping seamless and efficient, this E-commerce

Website System has been developed. The project focuses on creating an interactive

platform where users can browse and purchase products with ease. It incorporates a login

and registration system, a product catalog, a shopping cart, and a payment gateway,

ensuring a smooth and secure shopping experience.

This system is designed to benefit both customers and administrators. Customers can

register, log in, view products, add them to their cart, and proceed with a secure payment

process. Administrators can manage products, users, and orders, ensuring the system runs

smoothly. The project aims to deliver a user-friendly interface, efficient navigation, and

secure transactions to enhance the overall online shopping experience.

2. Obstacles

Understanding user requirements.

Managing data with security.

Handling complex product filtering and cart logic.

Integrating payment gateways.

3. Features in Detail

General User Features:

	Home Page: View featured products, offers, and navigation options.		
	User Registration: Create a user account with:		
	Name (mandatory)		
	Email (mandatory)		
	Password (mandatory)		
	Phone Number (mandatory)		
	❖ Address		
	User Login: Access account via:		
	Valid email and password.		
	Product Browsing:		
	View product categories and detailed descriptions.		
>	Search and filter products by price, category, and rating.		
	Shopping Cart:		
	Add/remove items.		
	View total cost.		
	Checkout:		
>	Select payment method.		
>	Confirm order.		
	Order History: View past orders and track delivery status.		
Admin Fe	eatures:		
	Admin Dashboard:		
	Add, edit, or delete products.		
	Manage user accounts and orders.		
	Analytics: View sales reports and user activity.		

	Inventory Management: Track product stock and availability.	
4. Modules in Detail		
Visiting W	/ebsite:	
>	Browse product catalog.	
>	Filter and search products.	
>	View product details.	
User Registration and Login:		
	Register new users with validation.	
	Login with secure authentication.	

Shopping Cart:

- ❖ Add or remove products.
- Adjust quantities.
- Calculate subtotal, tax, and total.

☐ Password recovery through email.

Payment Gateway:

- ❖ Integration with third-party payment services (e.g., PayPal, Stripe).
- Ensure secure payment processing with encryption.

Admin Dashboard:

- Add/edit products with images, descriptions, and prices.
- Monitor user activity and orders.

5. UML Design

Use Case	e Diagra	am:	
П	Actor	•	
	**	User	
	*	Admin	
☐ Pri	mary l	Jse Cases:	
	*	Register/Login	
	*	Browse Products	
	*	Add to Cart	
	*	Checkout	
	*	Manage Products (Admin)	
6. Techr Software			
	Fronte	end: HTML, CSS, JavaScript, Node.js .	
	Backe	end: Node.js with Express.	
	☐ Database: MySQL (via XAMPP).		
	Frame	eworks: React for UI, Bootstrap for styling.	
Hardware	e Requ	irements:	
	Proces	ssor: Intel Core i3 or above.	
	RAM:	4GB minimum.	
	Storag	ge: 20GB free space.	

	Operating System:	Windows	10 or	higher.
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7. Cost Analysis

Task	Estimated Cost (BDT)
Development	40,000
Testing	15,000
Deployment	5,000
Total Cost	60,000

8. Gantt Chart

Phase	Duration	Timeline
Requirement Analysis	7days	Week 1
Design	10 days	Week 2-3
Development	60 days	Week 4-12
Testing	20 days	Week 13-15
Deployment	7 days	Week 16

9. Deployment

The website will be deployed on a secure hosting platform, ensuring scalability and accessibility. The domain name and SSL certificate will be procured for secure transactions.

10. Testing

Functional Testing: Verify all features work as intended.
Security Testing: Ensure user data and payment transactions are secure.
User Acceptance Testing: Collect feedback from real users.

11. Support

ш	24// support available through email or chat.
	Bug fixes and updates included for the first 3 months.

12. Pricing

Payment Milestones	Amount (BDT)
Upon project agreement	10%(6,000)
After prototype approval	50%()30,000
Post-testing	25%(15,000)
Final delivery	15%(9,000)

13. Responsibility

This E-commerce website is being developed by [Sayed Ahamed khan] under the supervision of [Golam Robbany].

14. Contact us

For any queries, please contact us at:

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Agreement Signed By:

Client Signature:	
Developer Signature:	