Assignment

"Planning: Feature Identification, Budget Preparation, Gantt Chart"

Course Title- **Information System Design & Software Engineering Lab**

Course Code- **CSE346.1**

Submitted To

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Project: Online Shopping Platform (E-commerce Management System)

Planning:

1.1 User Features:

1. **Login/Register** – User authentication. (email/password, etc.)
2. **Profile Management** – User info update, order history, address management.
3. **Product Catalog** – Categories, subcategories, product details page.
4. **Filter & Search Products** – Price range, category, brand-wise filtering.
5. **Shopping Cart** – Add/remove products, update quantity.
6. **Checkout Process** – Shipping info, billing info, order summary.
7. **Payment Gateway** – Integration. (SSL, bKash, etc.)
8. **Order Management** – Place, cancel, refund orders.
9. **Order Tracking** – Status updates. (Processing, Shipped, Delivered)
10. **Reviews & Ratings** – Customers can review & rate products.
11. **Wishlist/Favorites** – Save products for later.
12. **Discounts & Coupons** – Apply promo codes, seasonal discounts.
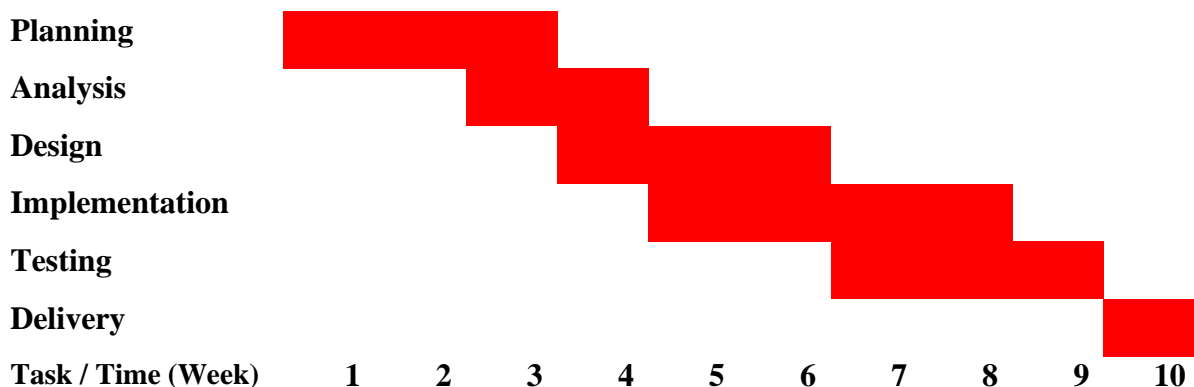
1.1.1 AI-Powered Features:

13. **Personalized Recommendations** – Suggest products based on user history.
14. **Fraud Detection** – Identify suspicious activities. (e.g., fake transactions)
15. **Customer Segmentation** – Classify users based on buying behavior.
16. **Dynamic Pricing Optimization** – Adjust prices based on demand/supply.
17. **Trend Analysis** – Detect which products are gaining popularity.
18. **AI Chatbot** – Automate customer support with NLP.

1.2 Admin Panel Features:

1. **Product Management** – Add, update, delete products.
2. **Order Management** – View orders, change status, manage returns.
3. **User Management** – Block/unblock users, manage roles.
4. **Basic Sales Analytics** – Daily/weekly/monthly sales report.

2. Gantt Chart:

Task / Time (Week)	1	2	3	4	5	6	7	8	9	10
Planning	■	■	■							
Analysis			■	■						
Design				■	■	■				
Implementation					■	■	■	■		
Testing							■	■	■	
Delivery									■	■

3. Budget Details:

SL	Criteria	Cost specification	Estimated Cost (BDT)
1	**Development Team**		**৳10,00,000**
		Frontend Developer	৳300,000
		Backend Developer	৳400,000
		UI/UX Designer	৳200,000
		QA & Testing	৳100,000
2	**Infrastructure**		**৳250,000**
		Hosting Server	৳150,000
		Database Management	৳50,000
		Domain Name & SSL	৳50,000
3	**Payment Gateway Fees**		**৳150,000**
4	**Marketing & Branding**		**৳200,000**
5	**Third-party APIs & Tools**		**৳100,000**
6	**Maintenance & Support (6 months)**		**৳300,000**
		Approximate Cost	**৳20,00,000**