Ecommerce App Development

**Project Requirements:**

* User Authentication:

Allow users to create accounts and log in securely.

Implement password hashing and encryption for user data security.

* Product Browsing:

Display a list of products with relevant details such as name, description, price, and images.

Enable users to filter products based on categories, prices, and other relevant attributes.

* Shopping Cart Management:

Enable users to add products to a cart and manage the quantities.

Implement features like updating quantities, removing items, and calculating the total cost.

* Payment Integration:

Integrate a secure payment gateway to process transactions.

Implement features like credit/debit card payments, PayPal integration, and other popular payment options.

* Order Processing:

Allow users to review and confirm their orders before finalizing the purchase.

Generate order invoices and send email confirmations to users after successful purchases.

* User Interface Design:

Design an intuitive and responsive user interface for seamless navigation and a pleasant user experience.

Implement a user-friendly design with clear call-to-action buttons and easy-to-understand product listings.

* **Tools and Technologies:**
* Front-end Development:

HTML, CSS, and JavaScript: for creating interactive and responsive user interfaces.

React : for building dynamic and efficient front-end components.

Bootstrap or Material-UI: for incorporating pre-built UI components and styles.

* Back-end Development:
* Java : for server-side programming and handling business logic.

Spring Boot (Java) : for building the application's back-end.

RESTful API: for facilitating communication between the front-end and back-end.

* Database Management:

MySQL : for storing product details, user information, and order history.

ORM (Object-Relational Mapping) frameworks: such as Hibernate (for Java)

* Payment Integration:

Paytm Gateway we are going to use.

* Version Control:

Git and GitHub: for version control and collaborative development.