**E-Commerce Web Application**

Motive : Selling Products

Software Requirements :

Front-end :

HTML, CSS, JavaScript

Back-end :

MySQL

Execution Server :

IBM Cloud

Hardware Requirements :

* Hard Disk(minimum 128GB)
* RAM 2GB
* HD Display

**Descriptions**

**Planning and Research**:

Start by defining your business goals, conducting market research, analyzing competitors, identifying your target audience, selecting the technology stack, and establishing a budget and timeline.

**Front-End Development:**

Focus on the user interface design, responsive layout, navigation, product listings, shopping cart, user registration/login, and ensuring an excellent user experience (UX).

**Back-End Development:**

Set up the server, design the database, implement user authentication, manage products and orders, integrate payment gateways, and prioritize security.

**Database:**

Create and manage user data, product data, order data, cart data, reviews, ratings, and inventory information.

**Payment and Shipping:**

Integrate payment gateways, define shipping methods and providers, validate addresses, and implement order tracking.

**Testing:**

Perform unit testing, integration testing, user acceptance testing, performance testing, and security testing to ensure the application's reliability.

**Deployment:**

Set up hosting, deployment environments, CI/CD pipelines, load balancing, and plan for scalability.

**Marketing and SEO:**

Optimize the website for search engines (SEO), integrate social media, plan email marketing campaigns, create a content strategy, and set up analytics.

**Maintenance and Support:**

Handle bug fixes, implement updates and enhancements, monitor server health, perform backups and recovery, and provide customer support.

**Documentation and Training:**

Create comprehensive documentation for developers, users, and administrators, along with training materials.