**4. Payment Gateway Integration:**

* Integration with secure and popular payment gateways.
* Support for multiple payment methods (credit/debit cards, digital wallets, etc.).
* Automatic payment distribution for vendors.

**5. Rating and Reviews:**

* Customer reviews and ratings for products.
* Vendor ratings based on performance.
* Moderation tools for inappropriate content.

**6. Search and Filters:**

* Advanced search functionality.
* Filters for price range, category, brand, etc.
* Sort options for search results.

**7. User Authentication and Authorization:**

* Secure user registration and login.
* Two-factor authentication for enhanced security.
* Role-based access control.

**8. Notifications:**

* Email/SMS notifications for order confirmation, shipping updates, etc.
* Subscription options for product updates and promotions.
* Alerts for low inventory.

**9. Reporting and Analytics:**

* Sales analytics for vendors.
* Reports on popular products and customer behavior.
* Financial reports for administrators.

**10. Responsive Design:**

* Mobile-friendly design for a seamless experience on various devices.
* Cross-browser compatibility.

**11. Security Measures:**

* SSL for secure data transmission.
* Encryption of sensitive information.
* Regular security audits and updates.

**12. Customer Support:**

* Live chat, email, or ticketing system.
* Help center with FAQs and guides.

**13. Localization and Internationalization:**

* Support multiple languages and currencies.

**14. Return and Refund Policies:**

* Clearly defined policies communicated to users.

**15. SEO Optimization:**

* SEO-friendly URLs and metadata.
* Sitemap and robots.txt implementation.

**16. Legal and Compliance:**

* Compliance with data protection laws and e-commerce regulations.

**17. Scalability:**

* Design the system for scalability with increasing user and product volumes.

**18. Third-Party Integrations:**

* Integration with third-party services such as shipping carriers, analytics tools, etc.

**19. Backup and Recovery:**

* Regular data backups.
* Robust recovery plan in case of data loss.

**20. Testing:**

* Comprehensive testing of all features, including unit testing, integration testing, and user acceptance testing.

**21. Documentation:**

* Thorough documentation for code, APIs, and user guides.

**22. User Feedback Mechanism:**

* System for collecting and analyzing user feedback for continuous improvement.

**34. Future Enhancements:**

Consideration for future features and technology upgrades

**Order:**

1. \_id
2. products (Array of product objectId references)
3. totalPrice
4. customer (objectId reference to Customer)
5. status (Enum: placed, shipped, delivered, canceled; default: placed)
6. invoice
7. shippingInfo
   1. address
   2. city
   3. state
   4. country
   5. postalCode
8. orderReview
9. createdAt
10. updatedAt

**API Endpoints**

**User:**

1. **/users/create-user (POST for customer)**
2. **/users/create-vendor (POST for vendor)**
3. **/users/create-admin (POST for admin)**

**Customer:**

1. **/users (GET all customer)**
2. **/users/:id (GET single customer)**
3. **/users/:id/ordersv(GET orders of a customer)**
4. **/users/:id (PUT/PATCH single customer)**
5. **/users/:id (DELETE customer)**

**Vendor:**

1. **/vendors (GET all vendors)**
2. **/ vendors /:id (GET single vendor)**
3. **/ vendors /:id (PUT/PATCH single vendor)**
4. **/vendors/:id (DELETE vendor)**

**Admin:**

1. **/admins (GET all admins)**
2. **/ admins/:id (GET single admin)**
3. **/ admins/:id (PUT/PATCH single admin)**
4. **/ admins/:id (DELETE admin)**

**Products:**

1. **/products (GET all products)**
2. **/ products/:id (GET single product)**
3. **/ products/:id (PUT/PATCH single product)**
4. **/ products/:id (DELETE product)**

**Orders:**

1. **/orders (GET all orders)**
2. **/ orders/:id (GET single order)**
3. **/ orders/:id (PUT/PATCH single order)**
4. **/ orders/:id (DELETE order)**