



Amazon.com System Specifications

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System Specifications

Amazon.com is a multinational technology company that primarily operates as an online retailer. The company was founded in 1994 by Jeff Bezos and started as an online bookstore. Since then, Amazon has expanded into various product categories and services, including e-commerce, cloud computing, digital streaming, and artificial intelligence.

The core business of Amazon.com is its e-commerce platform, which offers customers a vast selection of products, from books and electronics to clothing and household items. Amazon's e-commerce platform operates through its website and mobile applications, which allows customers to browse and purchase products, track their orders, and receive customer support.

In addition to its own products, Amazon's e-commerce platform also allows third-party sellers to sell their products through the platform, providing them with access to Amazon's large customer base and fulfillment services.

Amazon has also expanded its business into other areas, including cloud computing with Amazon Web Services (AWS), which provides on-demand computing resources to businesses and individuals, and digital streaming services such as Amazon Prime Video, which offers movies and TV shows.

Amazon's E-commerce business

Amazon.com's e-commerce business is a core part of the company's overall business model. The e-commerce platform provides a marketplace for customers to purchase various products online, including books, electronics, clothing, and household items. The platform operates through Amazon's website and mobile applications, which allow customers to browse and purchase products, track their orders, and receive customer support.

One of the key features of Amazon's e-commerce platform is its vast selection of products. Amazon offers millions of products from thousands of brands, making it a one-stop shop for customers looking to purchase various items. The platform also allows third-party sellers to sell their products through Amazon, giving customers access to a broader selection of products.

Another important aspect of Amazon's e-commerce business is its customer service. Amazon is known for its fast and reliable shipping, with options like one-day and same-day shipping available in many locations. The platform offers easy returns, refunds, and customer service support through various email, phone, and live chat channels.

In addition, Amazon's e-commerce business relies heavily on technology to improve the customer experience and streamline operations. The platform uses algorithms and machine learning to personalize recommendations and search results for customers, making it easier for them to find and purchase the products they are looking for. Amazon also leverages technology to optimize its supply chain and logistics operations, allowing for faster and more efficient delivery of products.

System Overview:

- The Amazon.com e-commerce system provides a platform for users to purchase a wide range of products from various categories.
- It is a web-based application accessible from any device with an internet connection.

Functional Requirements:

- 1. User Management:
 - The system should allow users to create accounts with unique usernames and passwords.
 - Users should be able to edit their profile information and view their purchase history.
 - Admin users should be able to manage user accounts and view analytics on user behavior.

2. Product Management:

- The system should allow admin users to add, edit and delete products.
- Products should have a title, description, image, price, and other relevant information.
- Products should be organized into categories and subcategories for easy navigation.

3. Shopping Cart:

- The system should allow users to add products to a shopping cart while browsing.
- Users should be able to view and edit their shopping carts.
- Users should be able to proceed to checkout from their shopping cart.

4. Checkout:

- The system should allow users to input their shipping and billing information during checkout.
- Users should be able to select a shipping method and apply any relevant discount codes or coupons.
- The system should provide a confirmation page before finalizing the purchase.

5. Search:

• The system should allow users to search for products based on keywords, categories, and other relevant filters.

• The search function should provide relevant and accurate results.

6. Recommendations:

• The system should use user behavior and data analytics to provide personalized product recommendations.

Non-Functional Requirements:

1. Performance:

- The system should handle many simultaneous users without significantly decreasing performance.
- Response times for page loads, searches, and checkout processes should be optimized.

2. Security:

- The system should utilize secure protocols and encryption to protect user information and transactions.
- The system should have measures to prevent hacking, data breaches, and unauthorized access.

3. Scalability:

- The system should be designed to handle future growth and changes in the e-commerce industry.
- The system should scale to accommodate increased users, products, and transactions.

4. Usability:

- The system should have an intuitive and user-friendly interface for easy navigation and use.
- The system should be accessible on a variety of devices and screen sizes.