**Abstract :-**

Electronic Commerce Website is one that allows people to buy and sell physical goods, services, and digital products over the internet rather than at a brick-and-mortar location.

While visiting many e-commerce websites we find that the problems occur with the customers that they do not find the best-selling option and dealing option for the products.

To overcome with these problems we want to give the facility for the customers in this website. So that they can find best deals for the products. By using Business-to-Consumer (B2C) and Customer-to-Customer (C2C) models we have overcome with this problem.

In this website we have added some more features like- Price history, augmented reality, better exchange rates and 2nd hand products from trusted sellers (lowest price possible) in the products giving more freedom to buy and sell.

As a result of this it will consume less of the user and give better experience.

**Testing tool :-**

E-Commerce website testing involves reviewing the website for any issues before it goes live and is open to the public. A web application requires testing on various features like security, functionality, database, etc.

The following types of testing will be carried out here:

• Functional Testing  
• User Interference testing  
• Security Testing  
• Browser compatibility Testing  
• Load and stress Testing  
• Database Testing.

1. Functional Testing: Checking a web application’s requested functionality in the area of basic usability, its mainline functions, and accessibility is known as functional testing.
2. User Interface Testing: User interaction aspects are tested for proper operation during user interface testing. Links, tables, forms, frames, and user interface elements including text fields, radio buttons, check boxes, list boxes, combo boxes, command buttons, and dialogue boxes are some of these characteristics.
3. Security Testing: Security is the process of protecting data from numerous attacks. When interacting across a network, it is necessary to secure sensitive and critical information and data. The user wishes to have a safeguard in place to protect personal, sensitive, and financial information.
4. Performance Testing: Performance tests, including load and stress testing, must be carried out to make sure the web application can handle the demand during peak hours and serve the user in a timely and dependable way.

* Factors that influence performance testing are:  
  1. A number of users.  
  2. Response time.  
  3. Network Bandwidth.  
  4. User type.  
  5. Memory available.
* Load Testing: Load testing comprises simulating several users accessing the web application at the same time to test the web application under real-world conditions. It puts the web application through its paces by overloading it.
* Stress Testing: Stress testing is running a web application under more than maximum and changing loads for extended periods of time. Unlike performance and load testing, stress testing assesses the system’s response when it is subjected to a load that exceeds its defined limitations.

1. Database Testing: E-commerce is database-driven, it is critical that these apps function effectively and protect the user’s sensitive data, such as personal information and credit card information. Data-centric web applications must be tested to ensure error-free functioning and greater client satisfaction.

Tools for Testing e-commerce Site. :-

1. Google Analytics Content Experiments:- Experiments allow you to test how well different versions of your sites perform in terms of encouraging your users to complete specified tasks. Test up to five different versions of a page at different URLs to determine which one generates the most conversions. It helps in usability and performance testing.
2. Silverback: Silverback is a Mac-only usability testing application. It enables you to capture screen activity, record usability testing sessions, assign assignments, and highlight significant moments within a session.
3. UserTesting.com: UserTesting.com offers usability testing on demand. Use one of the configurable templates to create your exam. Choose participants by selecting demographics for your intended audience. View videos of participants using your website, get written responses, and ask follow-up questions.
4. Monitor.us: Monitor.us lets you help in performance testing.
5. Concept feedback: It gives expert opinions on usability testing.
6. HotJar: This is the tool that reveals the online behavior and voice of the users.