Software Requirements Specification

for

E-Cart

Version 1.0 approved

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Revision History

Name	Date	Reason For Changes	Version

1. Introduction

1.1 Purpose

The E-Cart web application is intended to provide complete solutions for vendors as well as customers through a single gateway using the internet as the sole medium. It will enable vendors to set up online E-Cart shops (electronics items, accessories, etc.), customers to browse through the shop and purchase them online without having to visit the shop physically. The administration module will enable a system administrator to approve and reject requests for new shops and maintain various lists of shop categories.

1.2 Document Conventions

Heading: Font Size: 16
Font Style: Bold
Font: Times New Roman
Sub Heading:
Font Size: 14
Font Style: Bold
Font: Times New Roman
Content:
Font Size: 12
Font: Times New Roman

1.3 Intended Audience and Reading Suggestions

- Customer
- Authority
- Developers
- All User

1.4 Product Scope

- Secure registration and profile management facilities for Customers.
- Adequate searching mechanisms for easy and quick access to particular products and services.
- Creating a Shopping cart so that customers can shop 'n' no. of items and checkout finally with the entire shopping carts. Customers can add or delete items in the cart.
- Regular updates to registered customers of the OFS about new arrivals. Uploading 'Most Purchased' Items in each category of products in the Shop.
- Strategic data and graphs for Administrators and Shop owners about the items that are popular in each category and age group.
- Maintaining database of regular customers of different needs.
- Shop employees are responsible for internal affairs like processing orders, assure home delivery, getting customer's delivery-time feedback, updating order's status and answering client's queries online.
- Feedback mechanism, so that customers can give feedback for the product or service which they have purchased. Also facility rating of individual products by relevant customers. •Adequate payment mechanism and gateway for all popular credit cards, cheques and other
- relevant payment options, as available from time to time.

1.5 References

https://codepen.io/
https://jsfiddle.net/
https://reactjs.org/docs/getting-started.html/
https://www.mongodb.com/docs/
https://reactjs.org/tutorial/tutorial.html
https://www.mongodb.com/docs/manual/
https://www.mongodb.com/use-cases/analytics

2. Overall Description

2.1 Product Perspective

E-Cart shop is aimed towards the vendors who want to reach out to the maximum cross-section of customer and common people who can be potential customer. This project envisages bridging the gap between the seller, the retailer and the customer. OFS should be user-friendly, 'quick to learn' and reliable software for the above purpose. OFS is intended to be a stand-alone product and should not depend on the availability of other software. It should run on both UNIX and Windows based platform.

2.2 Product Functions

- The main purpose of this project is to reduce the manual work.
- Functions: A Customer can browse through the shops and choose products to place in a virtual shopping cart. The shopping cart details can be viewed and items can be removed from the cart. To proceed with the purchase, the customer is prompted to login. Also, the customer can modify personal profile information (such as phone number and shipping address) stored by the application. The customer can also view the status of any previous orders, and cancel any order that has not been shipped yet.

2.3 User Classes and Characteristics

- The user should be familiar with the Shopping Mall related terminology like Shopping cart/Checking out/Transaction etc.
- The user should be familiar with the Internet.

2.4 Operating Environment

The product will be operating in windows environment. E-Cart shop system is a website and shall operate in all famous browsers, for a model we are talking Microsoft Internet Explorer, Google Chrome and Mozilla Firefox. Also it will be compatible with the IE 6.0. Most of the features will be compatible with the Mozilla Firefox and Opera 7.0 or higher version. The only requirement to use this online product would be the internet connection.

The hardware configuration includes Hard Disk: 40GB, Monitor: 15-inch Color monitor, Keyboard: 122 keys.

The basic input devices required are keyboard, mouse and output devices are monitor etc.

2.5 Design and Implementation Constraints

An online store is a virtual store on the Internet where customers can browse the catalog and select products of interest. The selected items may be collected in a shopping cart. At checkout time, the items in the shopping cart will be presented as an order. At that time, more information will be needed to complete the transaction. Usually, the customer will be asked to fill or select a billing address, a shipping address, a shipping option, and payment information such as credit card number. An e-mail notification is sent to the customer as soon as the order is placed.

2.6 Assumptions and Dependencies

The assumptions are:

1. The coding should be error free.
2. The system should be user friendly so that it is easy to use for the users.
3. The system should have more capacity and provide fast access to the database.
4. The system should provide search facility and support quick transactions.
5. The E-Cart system is running twenty four hours a day.
6. Users may access from any computer that has internet browsing capabilities and an internet connection.
7. User must have their correct usernames and passwords to enter into their online accounts and do actions.

The dependencies are:

1. The specific hardware and software due to which the product will be run.
2. On the basis of listing requirements and specification the project will be develop and run.
3. The end users (admin) should have proper understanding to the product.
4. The system should have the general report store.
5. The information of all users must be stored in a database that is accessible by the E-Cart system.

3. External Interface Requirements

3.1 User Interfaces

- Admin can View. Edit and Delete everything on the product.
- User can view the whole information.

3.2 Hardware Interfaces

- Operating system: windows
- Hard disk :40 GB D RAM: 512 MB.
- Processor: Pentium(R)Dual-core CPU

3.3 Software Interfaces

- XAMPP
- VS Code
- MySQL server

3.4 Communications Interfaces

The Customer must connect to the Internet to access the Website:

- Dialup Modem of 52 kbps
- Broadband Internet
- A Dialup or Broadband Connection with a Internet Provider.

4. System Features

- The website authority should ensure the customer provide real product.
- Customer support is available from the authority.
- Customer information security confirm.
- Manage customer information.
- To increase efficiency of managing the authority work.

5. Other Nonfunctional Requirements

5.1 Performance Requirements

There is no performance requirement in this system because the server request and response depended on the end user internet connection.

5.2 Safety Requirements

- System will use secured database.
- Normal users can just read information but they cannot edit or modify anything except their personal and some other information.
- System will have different types of users and every user as access constraints.

5.3 Security Requirements

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5.4 Software Quality Attributes

- There may be multiple admin's creating the project, all of them will have the right to create changes to the system. But the members or other users cannot do changes
- The project should be open source.
- The quality of the database is maintained in such a way so that it can be very user friendly to
- all the users of the database.
- The user be able to easily download and install the system.