**Node-Commerce**

**Software Requirements Specification**

**Version 2.0**

Revision history

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# Introduction

* 1. Purpose: This document provide a detailed overview of our software, it’s function and goals. It describes the target audience, user interface and the requirements. Reader can see product’s functionality.
  2. Product Scope: Some small shop can sell more their product when they do marketing and our SELLING WEBSITE can help do that well.

## Definitions, Acronyms, and Abbreviations:

|  |  |
| --- | --- |
| Configuration | It means a product which is available / Selected from a catalogue can be customized. |
| FAQ | Frequently Asked Questions |
| HTTPS | Hyper Text Transfer Protocol Secured |

## References

* + 1. 830-1998 - IEEE Recommended Practice for Software Requirements Specifications, *IEEE Computer Society*
  1. Overview: The remaining sections of this document provide more detailed description. General description of the project is discussed in section 2. Section 3 is about functional requirements, data requirements and constraints and assumptions made, it also discusses the external interface.

# Overall Description

* 1. Product function: selling website as a helping tool that provide an effective way to sell item, help the shop improve their benefit.
  2. Use classes and Characteristic: User classes may use this product: medium shop, small shop, individual businessman …

# Specific Requirements

* 1. Functionality: This subsection contains the requirements for the project tracking. These requirements are organized by the features discussed in the vision document. Features from vision documents are then refined into use case diagrams and to sequence diagram to best capture the functional requirements of the system. All these functional requirements can be traced using tractability matrix.

### User authentication:

* + - 1. The system shall allow user to create new account (or use Facebook, Gmail, Twitter account through OAuth2) and login using that account.
      2. The system shall provide each account with specific permissions depend on their role (customer, manager, salesmen, …)

### Item management:

* + - 1. The system shall allow salesmen and managers to add, delete and update items on the site so that customer can see them.
      2. The system shall display detailed information of each product for the customers.
      3. The system shall provide browsing options to see product details.
      4. The system shall categorize products so that customers can choose more easily.

### Member management:

* + - 1. The system shall allow managers/administrators to modify their users on a website.
      2. The system shall allow managers to disable an account if they feel necessary.

### Provide search facility

* + - 1. The system shall enable user to enter the search text on the screen.
      2. The system shall enable user to select multiple options on the screen to search.
      3. The system shall display all the matching products based on the search.
      4. The system shall display only 10 matching result on the current screen.
      5. The system shall enable user to navigate between the search results.
      6. The system shall notify the user when no matching product is found on the search.

### Maintain personalized profile

* + - 1. The system shall display both the active and completed order history in the customer profile.
      2. The system shall allow user to select the order from the order history.
      3. The system shall display the detailed information about the selected order.
      4. The system shall display the most frequently searched items by the user in the profile.
      5. The system shall allow user to register for newsletters and surveys in the profile.

### Provide customer support

* + - 1. The system shall provide online help, FAQ’s customer support, and sitemap options for customer support.
      2. The system shall allow user to select the support type he wants.
      3. The system shall allow user to enter the customer and product information for the support.
      4. The system shall display the customer support contact numbers on the screen.
      5. The system shall allow user to enter the contact number for support personnel to call.
      6. The system shall display the online help upon request.
      7. The system shall display the FAQ’s upon request.

### Provide email confirmation

* + - 1. The system shall maintain customer email information as a required part of customer profile.
      2. The system shall send an order confirmation to the user through email.

### Provide invoice for customer

* + - 1. The system shall display detailed invoice for current order once it is confirmed.
      2. The system shall optionally allow user to print the invoice.

### Provide shopping cart facility

* + - 1. The system shall provide shopping cart during online purchase.
      2. The system shall allow user to add/remove products in the shopping cart.

### Allow online change or cancellation of order

* + - 1. The system shall display the orders that are eligible to change.
      2. The system shall allow user to select the order to be changed.
      3. The system shall allow user to cancel the order
      4. The system shall allow user to change shipping, payment method.
      5. The system shall notify the user about any changes made to the order.

### Allow online product reviews and ratings

* + - 1. The system shall display the reviews and ratings of each product, when it is selected.
      2. The system shall enable the user to enter their reviews and ratings.

### Provide statistics information for managers

* + - 1. The system shall enable managers to track their inventory.
      2. The system shall provide managers statistics on customer transactions.

## Usability

### Graphical User Interface:

* + - 1. The system shall provide a uniform look and feel between all the pages.
      2. The system shall provide a digital image for each product in the product catalog.

## Reliability & Availability

### Back-end server

* + - 1. The system shall serve the website 24/24.
      2. The system shall provide replication service periodically.

### Internet service provider

* + - 1. The system shall be hosted on a server by a provider which has proven access with 99.9999% availability.

## Performance

* + 1. The product shall be based on web and has to be run from a web server.
    2. The product shall take initial load time depending on internet connection strength which also depends on the media from which the product is run.
    3. The performance shall depend upon hardware components of the client/customer.

## Security:

### Data transfer

* + - 1. The system shall automatically log out when the browser is turned off.
      2. The system shall not leave any cookies on the customer’s device containing user’s password.
      3. The system shall use secure sockets in all transactions that include any confidential customer information.
      4. The system shall not leave any cookies on the customer’s computer containing any of the user’s confidential information.

### Data storage

* + - 1. The customer’s web browser shall never display a customer’s password. It shall always be echoed with special characters representing typed characters.
      2. The customer’s web browser shall never display a customer’s credit card number after retrieving from the database. It shall always be shown with just the last 4 digits of the credit card number.
      3. The system’s back-end servers shall never display a customer’s password. The customer’s password may be reset but never shown.
      4. The system’s back-end servers shall only be accessible to authenticated users.
      5. The system’s back-end databases shall be encrypted.

## Supportability

### Version tracking tool

* + - 1. The source code developed for this system shall be maintained with Git.

## Design constraints

### Standard development tools

* + - 1. The system shall be built using the MEAN stack.

### Web based product

* + - 1. There are no memory requirements
      2. The computers must be equipped with web browsers such as Mozilla Firefox or Google Chrome.
      3. The product must be stored in such a way that allows the client easy access to it.
      4. Response time for loading the product should take no longer than five minutes.
      5. Network connection is required for the clients.

### Cost

* + - 1. The system shall be affordable for small shops.

### Scale

* + - 1. The system shall be scalable depends on the requirements of software customers.

## Interface

* + 1. The protocol will be used: HTTPS.
    2. The port number will be used: 443.
    3. There shall be logical address of the system in IPv4 format.