Software Requirements Specification

for

Vaistreet

Version 1.0 approved

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Table of Contents

Revision History

Name	Date	Reason For Changes	Version

1. Introduction

1.1 Purpose

The exordium gives us an fundamental understanding of entire SRS with purport, scope and intended audiences and reading suggestions. The main aim of this document is to accumulate and analyze the online shopping software system by defining the quandary verbalization in detail. All the consequential details and requisites for online shopping software system are verbalized in this document. The primary target of this archive is to represent the necessities of the venture Vaistreet, a social e-trade site. This record gives an itemized depiction of both useful and non-utilitarian prerequisites proposed by the customer. The motivation behind this task is to give a responsive web entryway to online clients to shop and share items. The primary target is to give a stage to two purposes: Advertising items and brands in grapevine, giving an inventory from where these items can be purchased. This venture portrays the equipment and programming interface necessities utilizing UML charts.

1.2 Document Convention

- ➢ Entire document should be justified.
- ➢ Conventional for Main title
  - o Font face: ARIAL BLACK
  - o Font style: Bold
  - o Font size: 24
- ➢ Convention for Sub title
  - o Font face: ARIAL BLACK
  - o Font style: Bold
  - o Font size: 18
- ➢ Convention for Body
  - o Font face: ARIAL
  - o Font size: 12

1.3 Intended Audience and Reading Suggestions

This record is expected for item proprietor, engineers, clients, analyzers and documentation essayists. Whatever is left of this SRS contains general portrayal of the

venture, outside interface prerequisites, framework highlights and other non-useful necessities. Suggested grouping to peruse this archive for all perspectives (particularly clients and item proprietor) is to peruse Introduction first and afterward Overall Description for clarity about the item. UI originators and analyzers can allude to External Interface necessities. Developers and analyzers can allude to a definite report about the undertaking highlights in System Features and for non-utilitarian necessities allude to Other Non-functional Requirements.

Definitions, Acronyms and Abbreviations –

UML – Unified Modeling Language
SRS – Software Requirement Specification
IEEE – Institute of Electrical and Electronics Engineers
API – Application Programming Interface
REST - Representational State Transfer
JSON - JavaScript Object Notation
OSSP- Online shopping software product

1.4 Product Scope

The web shopping programming item helps us to purchase and offer items while sitting at home and client can likewise utilize the product to know close-by shops and a great deal more data with respect to it . The product chiefly concentrates on clients need and necessities. The Vaistreet site is facilitated online consequently clients can get to the site over the web. This venture is particularly being created for Safcodes Pvt. Ltd. The item will function as a complete UI for internet shopping and publicizing. Online clients are given a stage to shop and share, that is the pith of the entire item. We and the item proprietors imagine that this item will be utilized by purchasers to either purchase an item or give content about the item which is publically obvious to different clients on a newsfeed of the creator. This substance around an item is integral for business. This is the thing that Safcodes can use to drive income from the site.

1.5 References

- Use Case diagram : Page – n
- IEEE template for SRS
- Books
  o Software Engineering: A Practitioner's Approach Fifth Edition By Roger S. Pressman
- Website
  o http://safcodes.com/

2. Overall description

2.1 Product Perspective

The OSSP empowers clients to purchase and offer items online, it is not a radical new thought but rather it manages the issue of client betterly utilizing creative thoughts like news food demonstrating close-by shops ,chatbox and data with respect to brands and item overhauls . GUI is upgraded to give productive results.

2.2 Product Functions

The client will need to make represent buying, selling OSSP,it will keep record of his/her requests. The client can utilize visitor mode to take a gander at items however can't request them as visitor. The client will have the capacity to place request for any accessible item and wipe out and supplant it if craved. The exchanges might be done internet utilizing credit/platinum cards. Any mistake or blame in client's request will be advised by client to administration utilizing helpline number. The site permits clients to search for items on the web. Clients can skim through a list of ordered items and pick a thing for additional data. The item subtle elements page contains surveys with respect to the item and related substance, as open newsfeeds. Enrolled clients can purchase an item, cross out an item officially requested and track the requested item. Enlisted clients can begin a gathering or as we call it a newsfeed to talk about brands and items. Clients may visit among themselves by trading messages. For further subtle elements allude to System Features.

2.3 User Classes and Characteristics

The product gives distinctive sorts of administrations taking into account the kind of clients.
The elements accessible to a visitor client are:-
- Can view item inventory
- Can view item detail page
- Can hunt down an item
- Can peruse open newsfeeds.

- Can register to end up an enrolled client

The components accessible to an enlisted client are:-

- All of the above components
- Manage certifications (Password and profile data).
- Purchase a Product
- View Invoice of buys
- View rundown of requested items
- Cancel a bought item
- Track shipment points of interest
- Create a newsfeed
- Upload posts on a newsfeed
- Post audits on an item's page
- Message Exchange (Chat) among clients.

2.4 Operating Environment

The Software will be working on all operating systems and as it web predicated so it can be accessed by utilizing a Computer or a smartphone. The item is cross stage as it keeps running on a web program. The site will keep running on all generally utilized programs. The item is a responsive site henceforth it will oblige all screen sizes including portable, desktops and tablets.

2.5 Design Constraints

Some constraints that may limit options available to the developers are:

Language used PHP and java only
Database used Mongo DB only
Integration of external monetary transaction API
Elastic search API integration
Online Security concerns
Scalability of database storage

2.6 User Documentation

The item is a site consequently deliverables or manuals are not required with the product. The site will have complete names for each tab or highlight which might be obviously apparent.

2.7 Assumptions

The site expects web access to be accessible, as the webpage must be gotten to by means of the web. The product makes utilization of PayUMoney or some other outer installment preparing API that might be occupied if the organization (PayUMoney) has specialized issues. The product accepts that the web host administration suppliers have their frameworks running all an ideal opportunity to give a 24*7 access to the site. This site is likewise reliant on a few libraries that are accessible online and are recorded beneath,

- ➢ Bootstrap, Version: 3.3.7
- ➢ Font Awesome, Version: 4.6.0
- ➢ AngularJS, Version: 1.5.8
- ➢ Express, Version: 4.14.0
- ➢ Node.js, Version: 4.5.0
- ➢ MongoDB, Version: 3.2.0
- ➢ Mongoose ODM, Version: 4.6.0

3. External Interface Requirements

3.1 User Interfaces

Each intelligent piece of programming is made to be justifiable and efficient for client. The product will be kept light so it doesn't require investment to stack and can deal with huge number of clients legitimately. The item has a typical interface for both enlisted and unregistered clients. This interface incorporates the item list, item points of interest page, item surveys, and open newsfeeds. Highlights accessible just for enlisted clients will have a different interface notwithstanding the regular interface. This interface incorporates all the additional functionalities determined under the enrolled client class in User Classes and Characteristics.

3.2 Hardware Interfaces

This product does not involve any software and hardware interface, barring the basic peripheral input/output interface on the user device. This website does not make use of any extra interfaces.

3.3 Software Interfaces

This product incorporates several software interfaces listed below,

PayUMoney REST API that returns JSON docs after processing payment
Elastic search REST API which also uses JSON format for query and response
Interface between server side code and MongoDB database in JSON format
Libraries:
> Bootstrap, Version: 3.3.7
> Font Awesome, Version: 4.6.0
> AngularJS, Version: 1.5.8
> Express, Version: 4.14.0
> Node.js, Version: 4.5.0
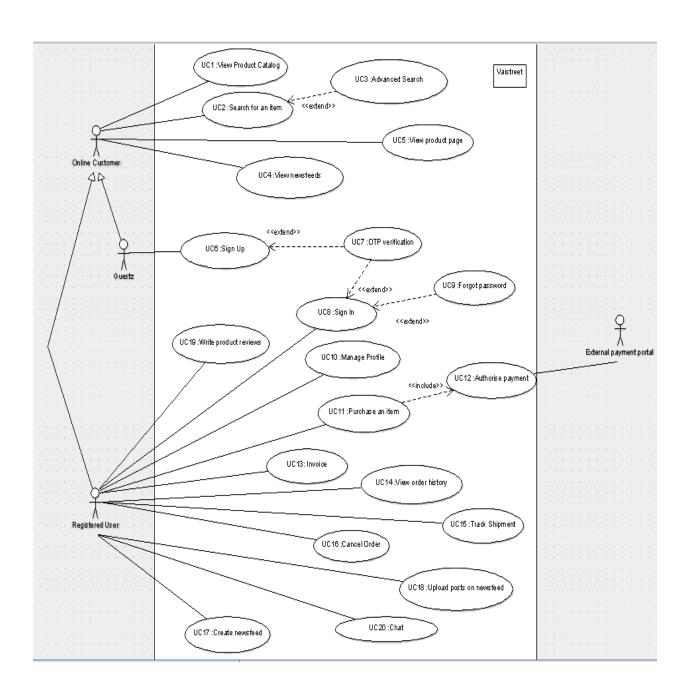> MongoDB, Version: 3.2.0
> Mongoose ODM, Version: 4.6.0

3.4 Communication Interfaces

The utilizer will be notified about order attestation and delivery through a SMS and a E-mail . Availability of incipient products will be done through E-mail

4. System Features

Id	Name	Description
1	View Catalog	Client can see the rundown of the considerable number of items and can pick the item to purchase.
2	News Feed	Client can see moving upgrades about site and items.
3	Search Box	Client can hunt down particular item or anything he/she needs.
4	Search Filter	Client can utilize more particular channels to dispense with undesirable items.
5	Product Details	Client can see points of interest like cost and data of merchant for any item.
6	Sign up	New clients need to enroll to request items.
7	OTP Verification	Mobile No. what's more, E-mail check utilizing OTP at time of

		enlistment.
8	Sign in	Old clients need to login with login-id and password for new request.
9	Forgot Password	If existing customers forget their password, a process to reset their password.
10	Credentials	Merchant and items validation in light of past records and client surveys.
11	Buy Product	Client can purchase wanted item by OTP check for confirmation and paying.
12	Checkout and Invoice	Checkout by paying the required sum and receipt will be created.
13	View Order	User can view his/her order records.
14	Order cancellation and replacement	User can cancel order or replace order.
15	Track Order	User can track his/her order status.
16	Product review	User can read and write review for any bought product based on their experience
17	Chat Box	Users can chat with each other so that they can buy good products.
18	Create news feed	User should be able to create a newsfeed. User can write reviews, advertise brands.
19	Post news feed	User can post on newsfeed in the form of text, images and videos.

5. Non-Functional Requirements

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ID	Name	Description
20	Performance	The OSSP ought to be quick and simple to utilize. It ought to comprehend all client prerequisites appropriately. The site ought to be light and bug free so it doesn't bring about issue for clients notwithstanding when the heap is high. The Chatbox, Search box and Newsfeed ought to be outlined optimally to give sought results.
21	Security	The site ought to be secure as it contains Debit, Credit card points of interest and considerably more other individual data which can bring about inconvenience if spilled. The site will utilize security layers and encryption to guarantee security. It will logout clients after a specific time of dormancy.
22	Availability and Maintainability	The product ought to be accessible at any given purpose of time and in the event of any issue or breakdown it ought to demonstrate proper website page for client's data and programming ought to be overhauled consistently to enhance execution and new components to help clients should be satisfied totally.

Feasibility Analysis

The interest for this Software has not been our worry since we as of now have a customer for the Software. In the event that the possibility framework was not executed, it would have been truly troublesome for us to proceed onward with our undertaking. The present programming's are confounded and exhausting, they don't take care of clients' issues productively, our item is imaginative as it permits clients to converse with each other and get audit about each item in an itemized way, which is inadequate in current software's. There is no new sort of innovation required to fabricate this product, the product will simply combine two of the most critical parts of the business to improve internet shopping simpler and. The joining of these two (Social Media and Online Shopping) can be tricky in a couple of ranges and we have to address that well with effective outlining

Traceability analysis

Requirement Identity	Use case addressing the requirement	Classes addressing the requirement	Methods addressing the requirement	Unit Test cases addressing the requirement
RQ1	UC1			
RQ2	UC4, UC18			
RQ3	UC2			
RQ4	UC3			
RQ5	UC5, UC19			
RQ6	UC6			
RQ7	UC7			
RQ8	UC8			
RQ9	UC9			
RQ10	UC10			
RQ11	UC11			
RQ12	UC13			
RQ13	UC14			
RQ14	UC14,UC16			
RQ15	UC15			
RQ16	UC19			
RQ17	UC20			
RQ18	UC17			
RQ19	UC18			

Development Traceability Matrix

	RQ 1	RQ 2	RQ 3	RQ 4	RQ 5	RQ 6	RQ 7	RQ 8	RQ 9	RQ 10	RQ 11	RQ 12	RQ 13	RQ 14	RQ 15	RQ 16	RQ 17	RQ 18	RQ 19
RQ 1					R														
RQ 2																		R	R
RQ 3	R																		
RQ 4		D																	
RQ 5											R					R			
RQ 6							R	R	R										
RQ 7						R													
RQ 8									R										
RQ 9								R											
RQ 10						D		D											
RQ 11													R						
RQ 12											D								
RQ 13											R								
RQ 14											R								
RQ 15											D								
RQ 16					R														
RQ 17																			
RQ 18		R																	
RQ 19																		R	