

## Project Specification

### SHOP-ON

V 1.0



## Revision History

Date	Version	Title	Author	Reviewer
07-30-2020	1.0	First Version	Giri B	

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## 1. Introduction

Shop-On is enterprise open source e-commerce software for retailers who want flexibility, speed and control of their commerce platform. Shop-On is a software solution that gives organizations the ultimate flexibility to take an experience-first approach to commerce, with simple powerful APIs and built in stores models.

Shop-On e-commerce system provides the following functionality:

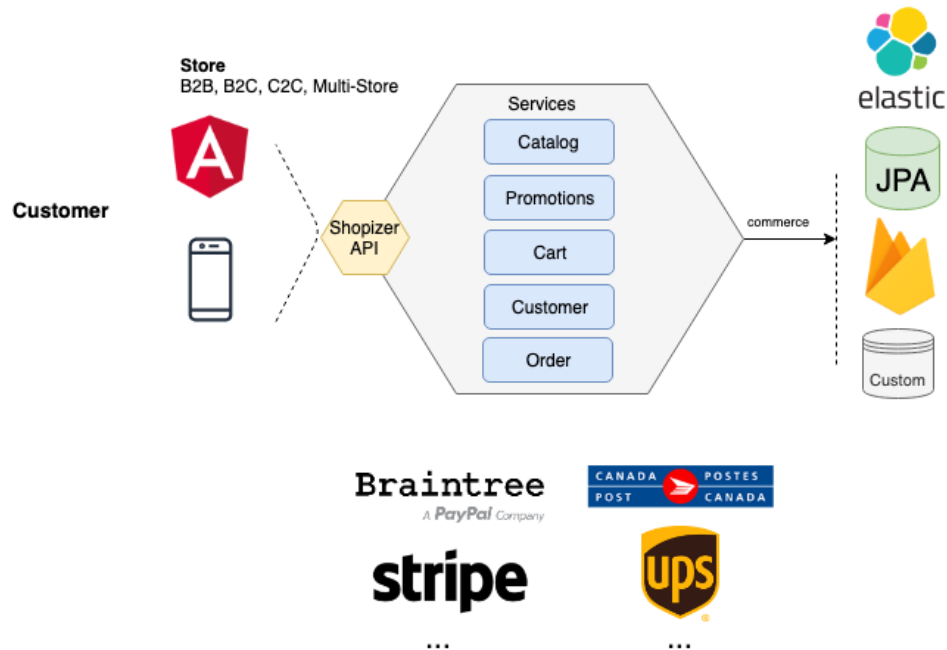
- Catalog management
- User management
- Customer management
- Content management
- Order management
- Pricing management
- Shopping cart management
- Configuration management
- Shipping
- Payment
- Promotions
- Search

### 1.1 Users

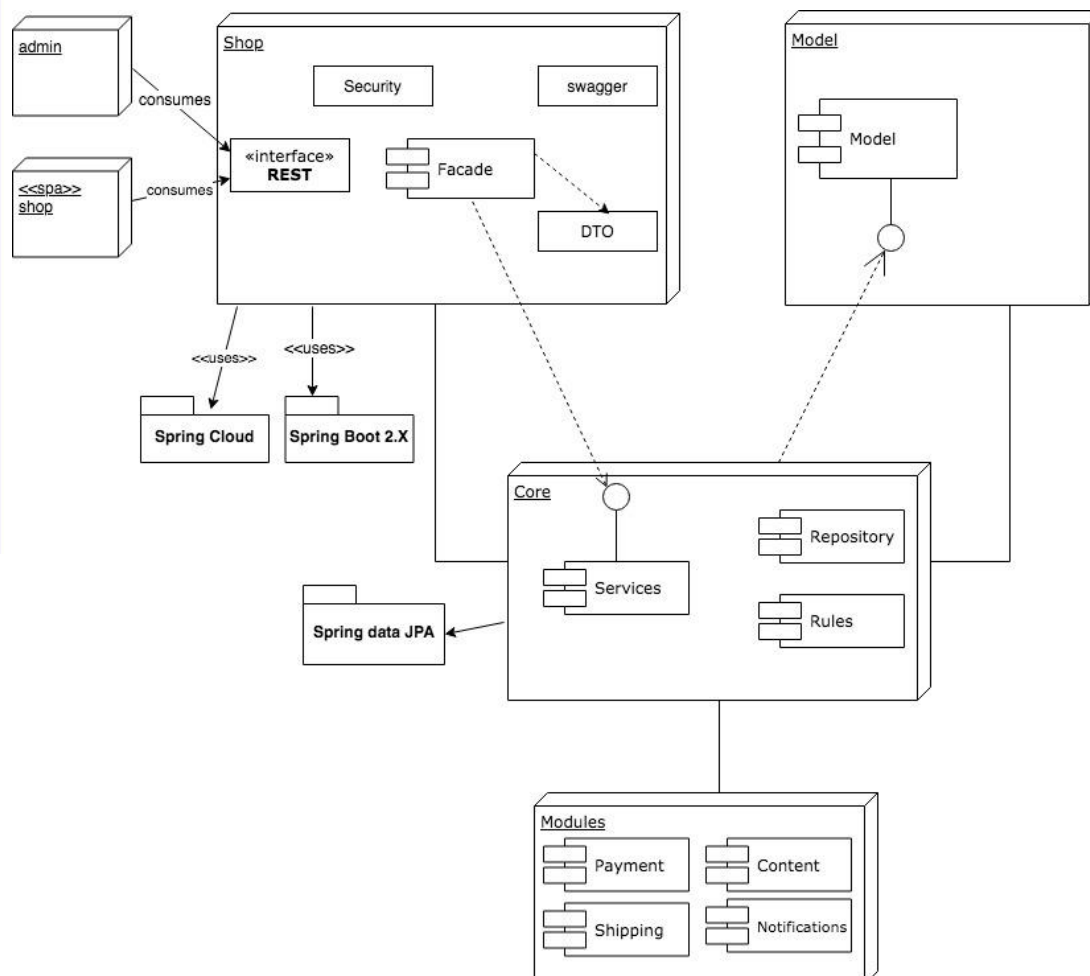
Shop-On has the following users:

Role	Description
superadmin	Can create, modify any user of any stores
admin	Can create, modify any user its pertaining store
admin_store	Can create, modify any user its pertaining store
admin_retail	Can only modify their profile, Deletion is not supported

## 2. High Level Architecture



## 3. Components



## 4. Specification

### 4.1 Functional Specifications

#### 4.1.1 Customer:

1. Home Page
2. Register Page
3. Login Page
4. Product Details Page
5. Review Page
6. Checkout Page and Summary Page
7. Order Success Page

#	EPIC	FEATURE
1	User Login	Login
2	User Login	Remember Me
3	User Login	Forgot Password
4	User Login	Register
5	Homepage	Offers
6	Homepage	Language Preference
7	Homepage	Check Cart option
9	Homepage	Search for a Product
10	Homepage	Lists of Products
11	Product Detail Page	Details for a product
12	Product Detail Page	Add to cart
13	Product Detail Page	Sort by Option
14	Product Detail Page	Collection option
15	All Pages	Scroll to beginning of the page
16	All Pages	Contact with Admin (Address, Contacts, Social Media links etc..)
17	Personal Info Page	Check your account details
18	Personal Info Page	Change Password
19	Personal Info Page	Check Item Recently purchased
20	Personal Info Page	Billing and Shipping information
21	Personal Info Page	Forgot Password

#### 4.1.2 Admin:

1. Login Screen
2. Home Page
3. Store Page
4. Profile
5. Catalogue
6. Manage Content
7. Shipping
8. Payment
9. Customers
10. Orders
11. Manage taxes
12. Cache Management
13. Configurations

#	EPIC	FEATURE
1	User Page	Login In
2	User Page	Remember Me
3	User Page	Forgot Password
4	Home Page	Store Information
5	Home Page	Recent Orders
6	Home Page	Detail of a Product ordered
7	Store Page	Modify the store details
8	Store Page	Modify the store branding
9	Store Page	Modify the store home page
10	Profile Page	User Details
11	Profile Page	Create a Group for security
12	Profile Page	Change the Account Type
13	Catalogue	Product Catalogue
14	Catalogue	Categories
15	Catalogue	Options Catalogue
16	Catalogue	Product Group
17	Catalogue	List of Manufacturers
18	Manage Content	Manage Pages
19	Manage Content	Manage Boxes
20	Manage Content	Manage Images
21	Manage Content	Manage Files
22	Shipping	Shipping Configuration
23	Shipping	Shipping Method
24	Shipping	Shipping origin



## 4.2 API

HTTP Request	API	Description
	<a href="#">Catalog management resource (Catalog Management Api)</a>	Catalog Api
POST	<a href="#">POST/api/v1/private/catalog</a>	Create catalog
GET	<a href="#">GET/api/v1/private/catalog/{id}</a>	Get catalog
POST	<a href="#">POST/api/v1/private/catalog/{id}</a>	Add catalog entry to catalog
DELETE	<a href="#">DELETE/api/v1/private/catalog/{id}</a>	Deletes a catalog
PATCH	<a href="#">PATCH/api/v1/private/catalog/{id}</a>	Update catalog
GET	<a href="#">GET/api/v1/private/catalog/{id}/entry</a>	Get catalog entry by catalog
DELETE	<a href="#">DELETE/api/v1/private/catalog/{id}/entry/{entryId}</a>	Remove catalog entry from catalog
GET	<a href="#">GET/api/v1/private/catalog/unique</a>	Check if catalog code already exists
GET	<a href="#">GET/api/v1/private/catalogs</a>	Get catalogs by merchant
	<a href="#">Category management resource (Category Management Api)</a>	Category Api
GET	<a href="#">GET/api/v1/category</a>	Get category hierarchy from root. Supports filtering FEATURED_CATEGORIES and VISIBLE ONLY by adding ?filter=[featured] or ?filter=[visible] or ? filter=[featured,visible]
GET	<a href="#">GET/api/v1/category/{id}</a>	Get category list for an given Category id
POST	<a href="#">POST/api/v1/private/category</a>	create
PUT	<a href="#">PUT/api/v1/private/category/{id}</a>	update
DELETE	<a href="#">DELETE/api/v1/private/category/{id}</a>	delete
PUT	<a href="#">PUT/api/v1/private/category/{id}/move/{parent}</a>	Move a category under another category
PATCH	<a href="#">PATCH/api/v1/private/category/{id}/visible</a>	updateVisible
GET	<a href="#">GET/api/v1/private/category/unique</a>	Check if category code already exists
	<a href="#">Content management resource (Content Management Api)</a>	Content Api
GET	<a href="#">GET/api/v1/content/boxes</a>	Get pages summary created for a given MerchantStore
GET	<a href="#">GET/api/v1/content/boxes/{code}</a>	Get box content by code for a code and a given MerchantStore
GET	<a href="#">GET/api/v1/content/folder</a>	folder
GET	<a href="#">GET/api/v1/content/images</a>	Get store content images
GET	<a href="#">GET/api/v1/content/pages</a>	Get page names created for a given MerchantStore
GET	<a href="#">GET/api/v1/content/pages/{code}</a>	Get page content by code for a given MerchantStore
GET	<a href="#">GET/api/v1/content/pages/name/{name}</a>	Get page content by code for a given MerchantStore



GET	<a href="#">GET/api/v1/content/summary</a>	Get pages summary created for a given MerchantStore. Content summary is a content box having code summary.
POST	<a href="#">POST/api/v1/private/content</a>	Create content (page or box)
DELETE	<a href="#">DELETE/api/v1/private/content/</a>	Deletes a file from CMS
PUT	<a href="#">PUT/api/v1/private/content/{id}</a>	Update content page
DELETE	<a href="#">DELETE/api/v1/private/content/{id}</a>	Deletes a content from CMS
GET	<a href="#">GET/api/v1/private/content/any/{code}</a>	Get page content by code for a given MerchantStore
GET	<a href="#">GET/api/v1/private/contents/any</a>	Get contents (page and boc) for a given MerchantStore
POST	<a href="#">POST/api/v1/private/file</a>	upload
POST	<a href="#">POST/api/v1/private/files</a>	uploadMultipleFiles
	<b>Customer authentication resource (Customer Authentication Api)</b>	Authenticate Customer Api
GET	<a href="#">GET/api/v1/auth/customer/refresh</a>	refreshToken
POST	<a href="#">POST/api/v1/customer/login</a>	Authenticates a customer to the application
PUT	<a href="#">PUT/api/v1/customer/password</a>	Sends a request to reset password
POST	<a href="#">POST/api/v1/customer/password/reset</a>	Change customer password
POST	<a href="#">POST/api/v1/customer/register</a>	Registers a customer to the application
	<b>Customer management resource (Customer Management Api)</b>	Customer Api
PUT	<a href="#">PUT/api/v1/auth/customer/{id}</a>	Updates a logged in customer profile
PATCH	<a href="#">PATCH/api/v1/auth/customer/address</a>	Updates a logged in customer address
POST	<a href="#">POST/api/v1/private/customer</a>	Creates a customer
GET	<a href="#">GET/api/v1/private/customer/{id}</a>	get
PUT	<a href="#">PUT/api/v1/private/customer/{id}</a>	Updates a customer
DELETE	<a href="#">DELETE/api/v1/private/customer/{id}</a>	Deletes a customer
PATCH	<a href="#">PATCH/api/v1/private/customer/{id}/address</a>	Updates a customer
GET	<a href="#">GET/api/v1/private/customer/profile</a>	getAuthUser
GET	<a href="#">GET/api/v1/private/customers</a>	getFilteredCustomers
	<b>Manufacturer / Brand management resource (Manufacturer / Brand Management Api)</b>	Manufacturer Api
GET	<a href="#">GET/api/v1/category/{id}/manufacturers</a>	Get all manufacturers for all items in a given category
DELETE	<a href="#">DELETE/api/v1/manufacturer/{id}</a>	delete
GET	<a href="#">GET/api/v1/manufacturers/</a>	List manufacturers by store
GET	<a href="#">GET/api/v1/manufacturers/{id}</a>	get
POST	<a href="#">POST/api/v1/private/manufacturer</a>	create
PUT	<a href="#">PUT/api/v1/private/manufacturer/{id}</a>	update
GET	<a href="#">GET/api/v1/private/manufacturer/unique</a>	Check if manufacturer code already exists

	Merchant and store management resource (Merchant - Store Management Api)	Merchant Store Api
GET	<a href="#">GET/api/v1/private/merchant/{code}/children</a>	Get child stores
GET	<a href="#">GET/api/v1/private/merchant/{code}/stores</a>	Get retailer child stores
POST	<a href="#">POST/api/v1/private/store</a>	Creates a new store
PUT	<a href="#">PUT/api/v1/private/store/{code}</a>	Updates a store
DELETE	<a href="#">DELETE/api/v1/private/store/{code}</a>	Deletes a store
GET	<a href="#">GET/api/v1/private/store/{code}/marketing</a>	Get store branding and marketing details
POST	<a href="#">POST/api/v1/private/store/{code}/marketing</a>	Create or save store branding and marketing details
POST	<a href="#">POST/api/v1/private/store/{code}/marketing/logo</a>	Add store logo
DELETE	<a href="#">DELETE/api/v1/private/store/{code}/marketing/logo</a>	Delete store logo
GET	<a href="#">GET/api/v1/private/store/unique</a>	Check if store code already exists
GET	<a href="#">GET/api/v1/private/stores</a>	Get list of stores. Returns all retailers and stores
GET	<a href="#">GET/api/v1/store/{code}</a>	Get merchant store
GET	<a href="#">GET/api/v1/stores</a>	Get list of store names. Returns all retailers and stores
	Product attributes /options / options values management resource (Product Option Management Api)	Product Option Api
POST	<a href="#">POST/api/v1/private/product/{id}/attribute</a>	createAttribute
GET	<a href="#">GET/api/v1/private/product/{id}/attribute/{attributeId}</a>	Get product attributes
PUT	<a href="#">PUT/api/v1/private/product/{id}/attribute/{attributeId}</a>	updateAttribute
DELETE	<a href="#">DELETE/api/v1/private/product/{id}/attribute/{attributeId}</a>	deleteAttribute
GET	<a href="#">GET/api/v1/private/product/{id}/attributes</a>	Get product attributes
POST	<a href="#">POST/api/v1/private/product/option</a>	createOption
GET	<a href="#">GET/api/v1/private/product/option/{id}</a>	getOption
PUT	<a href="#">PUT/api/v1/private/product/option/{optionId}</a>	updateOption
DELETE	<a href="#">DELETE/api/v1/private/product/option/{optionId}</a>	deleteOption
GET	<a href="#">GET/api/v1/private/product/option/unique</a>	Check if option code already exists
POST	<a href="#">POST/api/v1/private/product/option/value</a>	createOptionValue
GET	<a href="#">GET/api/v1/private/product/option/value/{id}</a>	getOptionValue
PUT	<a href="#">PUT/api/v1/private/product/option/value/{id}</a>	updateOptionValue
DELETE	<a href="#">DELETE/api/v1/private/product/option/value/{id}</a>	deleteOptionValue
POST	<a href="#">POST/api/v1/private/product/option/value/{id}/image</a>	addOptionValueImage
DELETE	<a href="#">DELETE/api/v1/private/product/option/value/{id}/image</a>	removeOptionValueImage
GET	<a href="#">GET/api/v1/private/product/option/value/unique</a>	Check if option value code already exists
GET	<a href="#">GET/api/v1/private/product/options</a>	options

GET	<a href="#">GET/api/v1/private/product/options/values</a>	optionsValues
	<b>Product groups management resource (Product Groups Management Api)</b>	Product Group Api
POST	<a href="#">POST/api/v1/private/products/{productId}/group/{code}</a>	addProductToGroup
DELETE	<a href="#">DELETE/api/v1/private/products/{productId}/group/{code}</a>	removeProductFromGroup
POST	<a href="#">POST/api/v1/private/products/group</a>	Create product group
PATCH	<a href="#">PATCH/api/v1/private/products/group/{code}</a>	Update product group visible flag
GET	<a href="#">GET/api/v1/private/products/groups</a>	Get products groups for a given merchant
GET	<a href="#">GET/api/v1/products/group/{code}</a>	Get products by group code
DELETE	<a href="#">DELETE/api/v1/products/group/{code}</a>	Delete product group by group code
	<b>Product inventory resource (Product Inventory Api)</b>	Product Inventory Api
GET	<a href="#">GET/api/v1/private/product/{id}/inventory</a>	get
GET	<a href="#">GET/api/v1/private/product/{id}/inventory/{inventoryId}</a>	get
GET	<a href="#">GET/api/v1/private/product/{id}/inventory/store/{code}</a>	get
PUT	<a href="#">PUT/api/v1/private/product/{productId}/inventory/{id}</a>	update
POST	<a href="#">POST/api/v1/private/product/inventory</a>	create
DELETE	<a href="#">DELETE/api/v1/private/product/inventory/{id}</a>	delete
	<b>Product management resource (Product Management Api)</b>	Product Api
PUT	<a href="#">PUT/api/v1/auth/product/{id}</a>	Update product
DELETE	<a href="#">DELETE/api/v1/auth/product/{id}</a>	delete
POST	<a href="#">POST/api/v1/auth/product/{productId}/category/{categoryId}</a>	addProductToCategory
DELETE	<a href="#">DELETE/api/v1/auth/product/{productId}/category/{categoryId}</a>	removeProductFromCategory
POST	<a href="#">POST/api/v1/auth/products</a>	create
POST	<a href="#">POST/api/v1/private/product</a>	create
PUT	<a href="#">PUT/api/v1/private/product/{id}</a>	Update product
DELETE	<a href="#">DELETE/api/v1/private/product/{id}</a>	delete
PATCH	<a href="#">PATCH/api/v1/private/product/{id}</a>	Update product inventory
POST	<a href="#">POST/api/v1/private/product/{productId}/category/{categoryId}</a>	addProductToCategory
DELETE	<a href="#">DELETE/api/v1/private/product/{productId}/category/{categoryId}</a>	removeProductFromCategory
GET	<a href="#">GET/api/v1/private/product/unique</a>	Check if product code already exists
GET	<a href="#">GET/api/v1/products</a>	getFiltered
GET	<a href="#">GET/api/v1/products/{id}</a>	get
	<b>Product type resource (Product Type Api)</b>	Product Type Api
GET	<a href="#">GET/api/v1/products/types</a>	Get product types list

	<a href="#">Search products and search word/sentence completion functionality (Search Api)</a>	Search Api
POST	<a href="#">POST/api/v1/search</a>	search
POST	<a href="#">POST/api/v1/search/autocomplete</a>	autocomplete
	<a href="#">Shipping Quotes and Calculation resource (Shipping Api)</a>	Order Shipping Api
GET	<a href="#">GET/api/v1/auth/cart/{code}/shipping</a>	shipping
POST	<a href="#">POST/api/v1/cart/{code}/shipping</a>	shipping
	<a href="#">User management resource (User Management Api)</a>	User Api
POST	<a href="#">POST/api/v1/private/user/</a>	Creates a new user
PUT	<a href="#">PUT/api/v1/private/user/{id}</a>	Updates a user
DELETE	<a href="#">DELETE/api/v1/private/user/{id}</a>	Deletes a user
PATCH	<a href="#">PATCH/api/v1/private/user/{id}/password</a>	Updates a user password
GET	<a href="#">GET/api/v1/private/user/profile</a>	getAuthUser
POST	<a href="#">POST/api/v1/private/user/unique</a>	Check if username already exists
GET	<a href="#">GET/api/v1/private/users</a>	Get list of user
GET	<a href="#">GET/api/v1/private/users/{id}</a>	Get a specific user profile by user id
	<a href="#">authenticate-user-api</a>	Authenticate User Api
GET	<a href="#">GET/api/v1/auth/refresh</a>	refreshAndGetAuthenticationToken
POST	<a href="#">POST/api/v1/private/login</a>	authenticate
cache-api	<a href="#">cache-api</a>	Cache Api
DELETE	<a href="#">DELETE/api/v1/auth/cache/store/{storeId}/clear</a>	clearCache
contact-api	<a href="#">contact-api</a>	Contact Api
POST	<a href="#">POST/api/v1/contact</a>	Sends an email contact us to store owner
	<a href="#">customer-newsletter-api</a>	Customer Newsletter Api
POST	<a href="#">POST/api/v1/newsletter</a>	Creates a newsletter optin
PUT	<a href="#">PUT/api/v1/newsletter/{email}</a>	Updates a customer
DELETE	<a href="#">DELETE/api/v1/newsletter/{email}</a>	Deletes a customer
	<a href="#">customer-review-api</a>	Customer Review Api
GET	<a href="#">GET/api/v1/customers/{id}/reviews</a>	getAll
POST	<a href="#">POST/api/v1/private/customers/{id}/reviews</a>	create
PUT	<a href="#">PUT/api/v1/private/customers/{id}/reviews/{reviewId}</a>	update
DELETE	<a href="#">DELETE/api/v1/private/customers/{id}/reviews/{reviewId}</a>	delete
	<a href="#">market-place-api</a>	Market Place Api
GET	<a href="#">GET/api/v1/private/marketplace/{store}</a>	Get market place meta-data
	<a href="#">optin-api</a>	Optin Api
POST	<a href="#">POST/api/v1/private/optin</a>	Creates an optin event type definition
	<a href="#">order-api</a>	Order Api
POST	<a href="#">POST/api/v1/auth/cart/{code}/checkout</a>	checkout

GET	<a href="#">GET/api/v1/auth/orders</a>	list
GET	<a href="#">GET/api/v1/auth/orders/{id}</a>	getOrder
POST	<a href="#">POST/api/v1/cart/{code}/checkout</a>	checkout
GET	<a href="#">GET/api/v1/private/orders</a>	getOrders
GET	<a href="#">GET/api/v1/private/orders/customers/{id}</a>	list
	<a href="#">order-payment-api</a>	Order Payment Api
POST	<a href="#">POST/api/v1/auth/cart/{code}/payment/init</a>	init
POST	<a href="#">POST/api/v1/cart/{code}/payment/init</a>	init
POST	<a href="#">POST/api/v1/private/orders/{id}/capture</a>	capturePayment
GET	<a href="#">GET/api/v1/private/orders/payment/capturable</a>	listCapturableOrders
	<a href="#">order-total-api</a>	Order Total Api
GET	<a href="#">GET/api/v1/auth/cart/{id}/total</a>	payment
GET	<a href="#">GET/api/v1/cart/{id}/total</a>	calculatePayment
	<a href="#">product-image-api</a>	Product Image Api
POST	<a href="#">POST/api/v1/auth/products/{id}/images</a>	uploadImages
DELETE	<a href="#">DELETE/api/v1/auth/products/images/{id}</a>	deleteImage
POST	<a href="#">POST/api/v1/private/products/{id}/images</a>	uploadImages
DELETE	<a href="#">DELETE/api/v1/private/products/images/{id}</a>	deleteImage
	<a href="#">product-relationship-api</a>	Product Relationship Api
GET	<a href="#">GET/api/v1/products/{id}/related</a>	Get product related items. This is used for doing cross-sell and up-sell functionality on a product details page
	<a href="#">product-review-api</a>	Product Review Api
POST	<a href="#">POST/api/v1/auth/products/{id}/reviews</a>	create
PUT	<a href="#">PUT/api/v1/auth/products/{id}/reviews/{reviewid}</a>	update
DELETE	<a href="#">DELETE/api/v1/auth/products/{id}/reviews/{reviewid}</a>	delete
POST	<a href="#">POST/api/v1/private/products/{id}/reviews</a>	create
PUT	<a href="#">PUT/api/v1/private/products/{id}/reviews/{reviewid}</a>	update
DELETE	<a href="#">DELETE/api/v1/private/products/{id}/reviews/{reviewid}</a>	delete
GET	<a href="#">GET/api/v1/products/{id}/reviews</a>	getAll
	<a href="#">product-variant-api</a>	Product Variant Api
GET	<a href="#">GET/api/v1/category/{id}/variants</a>	Get all variation for all items in a given category
POST	<a href="#">POST/api/v1/products/{id}/variant</a>	Get product price variation based on selected options
	<a href="#">public-configs-api</a>	Public Configs Api
GET	<a href="#">GET/api/v1/config</a>	Get public configuration for a given merchant store
	<a href="#">references-api</a>	References Api
GET	<a href="#">GET/api/v1/country</a>	getCountry
GET	<a href="#">GET/api/v1/currency</a>	getCurrency
GET	<a href="#">GET/api/v1/languages</a>	getLanguages

GET	<a href="#">GET/api/v1/measures</a>	measures
GET	<a href="#">GET/api/v1/zones</a>	getZones
	<a href="#">security-api</a>	Security Api
GET	<a href="#">GET/api/v1/sec/private/{group}/permissions</a>	Get permissions by group
GET	<a href="#">GET/api/v1/sec/private/groups</a>	groups
GET	<a href="#">GET/api/v1/sec/private/permissions</a>	permissions
	<a href="#">shopping-cart-api</a>	Shopping Cart Api
POST	<a href="#">POST/api/v1/cart</a>	Add product to shopping cart when no cart exists, this will create a new cart id
GET	<a href="#">GET/api/v1/cart/{code}</a>	Get a chopping cart by code
PUT	<a href="#">PUT/api/v1/cart/{code}</a>	Add to an existing shopping cart or modify an item quantity
DELETE	<a href="#">DELETE/api/v1/cart/{code}/product/{id}</a>	Remove a product from a specific cart
GET	<a href="#">GET/api/v1/customers/{id}/cart</a>	Get a chopping cart by id
POST	<a href="#">POST/api/v1/customers/{id}/cart</a>	Add product to a specific customer shopping cart

## 4.3 Non-Functional Requirement

The Key Security and Compliance features of the Shop-On system is mentioned below. Periodically additional security measures and features will be incorporated into the system raising the bar for security for all applications in the system. Subsequently document would be updated of the same.

### 4.1 Performance Testing

As part of performance test for Shop-On application features are currently limited to understand the system behaviour with respect to load, with 200 concurrent users trying to access the application. Shop-On team will perform the load test using JMeter tool.

#### 1) Objective

The main objective of the performance testing is to:

- Evaluate the application scalability as intended
- Identify performance bottlenecks, and provide recommendations
- Evaluate the capability of the underlying infrastructure to host the given application

#### 2) Approach

- Design the test scenarios and test cases
- Build scripts for the identified test cases using JMeter
- Configure test scenarios using JMeter, with all test settings
- Execute the designed test scenarios
- Monitor and collect metrics
- Communicate any issues encountered during the run to all groups involved (If there are major issues noticed during the test, abort or stop test execution on mutual consent and reschedule the test).
- Consolidate the results from the JMeter
- Analyze the logs to identify bottlenecks
- Discuss with the application team for complete analysis and identification of bottlenecks.
- Log defects in TFS wherever applicable.
- Share the results with all stakeholders

## 4.2 Security Testing

Security Testing is defined as a type of Software Testing that ensures software systems and applications are free from any vulnerabilities, threats, risks that may cause a big loss.

### 1) Objective

System should ensure the following after successful completion of security testing:

- OWASP top 10 2017
- Baseline
- CWE/SANS top 25

### 2) Approach

- Security Testing team will use the ZAP for security testing
- Team will do dynamic comprehensive security scanning to increase visibility and better understanding of enterprise risks.
- Team will be performing Spider Checking and Vulnerability scanning of the Application. Security team will share the report and analyse along with the team.

## 4.3 Compatibility Testing

Compatibility Testing is defined as a type of Software Testing that ensures software systems and applications will work on 2 browsers, latest 2 versions in Chrome and IE.

### 1) Objective

The main objective of the compatibility testing is to:

- Evaluate the application is compatible in 2 browsers.
- Identify the issues and provide recommendations.
- Evaluate the capability of the application to work on the 2 browsers

### 2) Approach

- Compatibility Testing team will use the latest 2 versions of the browsers.
- Team will share the report and analyse along with the team members.

# 5. Deliverables

## 5.1 Test Plan

The document should consist of the following points:

1. Introduction
2. Testing Objective
3. Testing scope
4. Test Strategy
5. Testing tools
6. Defect Management
7. Test Schedule
8. Risk contingencies (If any)
9. Definitions and Acronyms (if any)

## 5.2 Functional Test Scenarios and Test Cases

Quality test scenarios and cases need to be defined, test cases to be written in detail.

## 5.3 APIs Test Scenarios and Test Cases

Quality test scenarios and cases need to be defined, test cases to be written in detail.



## 5.4 Defect log in Azure Devops

Defects to be logged in the Azure DevOps and linked to the test cases.

## 5.5 Test Summary Report

The document should consist of the following points:

1. Purpose of the document
2. Testing scope
3. Metrics
4. Types of testing performed
5. Test Environment
6. Definitions, Abbreviation and Acronyms
7. Automation Framework
8. Automation Script

## 5.6 Automation Test Suite

Automated test scripts to be created for both Functional and API test cases, where implement -

- 1 OO Design
- 2 Unit Testable Code
- 3 Understand the use case.
- 4 Create Test Scenario and Test Cases.
- 5 Implement PageObjects framework.
- 6 Use TestNG Annotation – @DataProvider, @BeforeSuite, @AfterSuite, @BeforeTest, @AfterTest, @BeforeMethod, @AfterMethod, and @Test.
- 7 Waiting for the next page to load and process its elements using implicit and explicit wait.
- 8 Prepare an XLS sheet for data-driven testing.
- 9 Read the data from XLS sheet.
- 10 Proper code comments across project – Compliance to Standards and Best Practices
- 11 Performance report of the Test Scripts
- 12 Resource Utilization report of the Scripts
- 13 Testing security aspects

## 6 Conclusion

Shop-Onv1.0 document provides all the necessary information regarding scope of Version 1 release. This document would be updated upon every major and minor release to customers. Given the growing needs of the system.