Document:System Requirement Specification Document

Title:System Reqruiement Spefication for Online Shopping Portal

Team:

Direct Customer, Indirect Customer,Architect, Business Analyst

Quality Assurance Team,

System Analyst

Objective (Purpose):

The online shopping System for products Web Applictaion is intended to provide complete solution

for vendors, Consumers as well as internal users (Staff) through a single Gateway using

internet. It will enable vendors to setp up online shops, customers to browse through virtual shop

and purchase products online without visiting the shop physically.

Scope:

This System allows Shoppers to maintain thier products for adding or removing from catalog based on

their availablity.Customer will be able to review orders history and may able to cancel order within

24 hours , order place.

The System will be able to show live Bussion Operation statistics trends through Customized dashboard

for stakeholders.

Definitions:

OSS: Online Shopping System

QA: Quality Assurance

Portal: Peronalized Online Web Application

MIS: Management Information System

CRM: Customer Relation Managment

BI: Business Intelligence

Dashboard: Personalized information presented using BI techniques such grid, score card, graph

Requirements:

Functional Requirements:

Any annonymous User will be able to view different products avaialble for sale. Any User will be able select product to view

from categories avaialble. Registered shoppers will be able promote thier product for sale by adding products to the product

catalog maintained by System.Staff will be able to approve or reject request for adding or removing products from product

catalog by shoppers. Staff will be to track and maintain stock of products available for sale. Staff will be able to raise

reqests for product updatation from product inventory.

Shopper will be able request to add new product to product catalog maintained by system. Sales Team will be able to approve or

reject request raised by shopper for adding or removing products from product catalog.

Shopper will be able to update product details which have been already added to product catalog.

Shoppers, sales team will be informed well in advaned about low stock or out of stock of products in product catalog.

Product listing will be provided based their category, sale, quantity, likes, recommendations.

Consumer will be able to add or remove products from shopping cart. System will maintain shopping cart for each consumer to

maintain list of items selected by him/her. Consumer will be able view all items from shopping cart. Shopping Cart will present

product details, number of items of product selected by consumer with price and total. Consumer will be able procees for Order placement.

Registered Customer will be able place an order with the help of Shopping cart maintained by system. Registered Customer will be

able to cancel placed order within 24 hours. Registered customer get orders history. Registered customer can get details of order

from orderes been placed.

Sales team will be able get details of orders of a particular Customer. Sales team will be able to cancel , reject or approve

orders been placed by consumer due to some policies of Business.

BOD will be able to summary of orders been placed , rejected from Oroder PRocessing of System. BOD will get Business insight by

observing daily operations with the of getting orders information.

Consumer will be provided options for payment such as through internet banking or UPI or Online payment option.

Consumer will asked to submit their payment related information.Consumer will be redirected to payment gateway for secure payment

transaction.On successful payment processing using payment gateway system will notify consumer about transaction and order placement

status.

Customer will be able track order status. Customer will be able track deliver using unique dispatcher id presented.

Customer will be able accept or return delivery based on quality received.

Delivery person will be able get delivery details sothat he / she can deliver product to customer end.

Delivery person will be able to change the status of product delivered.

Delivery vendor will be ablt to list all product delivery to be done by their staff.

Sales team will be able to monitor shipment done by their vendors.

Sales team will be able to track product delivery for particular customer.

Customer will able to submit feedback about product they recived. Customer will able to get details about product orders placed.

Customer will be cancel his placed order within 24 hours. Customer will be able to update his/ her personal information.

Customer will be to manage his profile maintained by system. Customer will be able change his credentails if required.

Customer will be notified about order status, delivery status through SMS, Email communication.

Customer will get complete information about his orders, likes, comments, details through a dashboard.

Customer will be able to update his payment related information.

System will present dashboard for Customers, Vendors, Suppliers as well as BOD.

Dashboard will provide information using graph, score cards, key perfomance indicators as well Grid data prestation.

BOD will be informed about bussiness operations through reports.

Sales team will be able to monitor daily online shopping business activities using thier personalized dashboard.

Customer will be able get thier purchase realted infomation using Customer Dashboard.

Shopper will be able track thier product sale being done through online shopping portal/

System and Technical team ( IT Opertaions team) will be able monitor system operations by monitoring logs maintained.

NonFunctional Requirement:

Security

Registered Customer will be allowed to place an order.

Each stakeholder will be to access system through authentication process.

System will provide access to the content , operations using Role based security (Authorization) (Permissions based on Role)

Using SSL in all transactions which will be performed stakeholder.

It would protect confidential information shared by system to

stake holder of Shared by stakeholder to system.

System will automatically log of all stakeholder after some time due to inactiveness.

System will block operations for inactive stakeholder and would redirect for authentication.

System will internally maintain secure communiction channel between Servers ( Web Servers, App Servers, databse Server)

Sensitive data will be always encrypted across communcation.

User proper firewall to protect servers from out side fishing, velnerable attacks.

Reliability

The system will backup business data on regular basis and recover in short time duration to keep system operational Continous updates are matained, continous Adminstration is done to keep system operational.

During peak hours system will maintain same user experaince by managing load balacning .

Availability

uptime: 24\* 7 available

99.999%

Maintainability:

A Commercial database software will be used to maintain System data Persistence.

A readymade Web Server will be installed to host online shopping portal (Web Site) to management server capabilities.

IT operations team will easily monitor and configure System using Adminstrative tools provided by Servers.

Separate enviornment will be maintained for system for isolation in production, testing, and development.

Portablility:

PDA: Portable Device Application

System will provide portable User Interface ( HTML, CSS, JS) through users will be able to access online shopping portal.

System can be deployed to single server, multi server, to any OS, Cloud (Azure or AWS or GCP)

Accessibility:

only registered customer will be able to place an order after authentication.

Sales team can reject or approve orders, shopper requests based on role provided.

BOD team will be able to view daily, weekly, monthly, annual businss Growth throgh customized dashboard.

Shoppers will be able to see their product sale graph

Durability:

System will retain customer shopping cart for 15 minutes even though customer loose internet connection and join again.

System will maintain wishlist for customer . customer will be able to add products from wishlist and add to shopping cart whenever needed.

System will implement backup and recovery for retaining stake holders data, bussiness operation data and business data over time.

Efficiency:

on Festival season, maximum number of users will place order, view products with same response time.

System will be able to manage all transactions with isolation.

Modularity:

System will designed and developed using reusable, independent or dependent business senarios in the form of modules.

These modules will be loosely coupled and highly cohesive.

System will contain CRM , Inventory , shopping cart, order processing, payment processing, Delivery module, membership and Roles managment modules.

Scalability:

System will be able to provide consistent user exeprience to stake holder as well as vistors irrespective of load.

Safety:

Online shopping portal will be secure from malicious attack, fishing.

Online shoppping portal functionalilites are protected from outside with prper firewall configuration.

Online shopping portal will be always kept updated with latest anit virus software.

Bussiness data will be backed up periodically to ensure safty of data using increamental back up strategy.

Role based security will be applied for Application data and operations accessibility.