EDairyPortal

**Document**

* System Requirement Specification Document

**Title**

* System Requirement Specification for Online EDairyPortal.

**Team**

* Direct Customer,Indirect Customer, Architect,Business Analyst, Quality Assurance Team, System Analyst.

**Objective (Purpose)**

* The online Dairy System for Dairy products Web Applictaion is intended to provide complete solution for vendors. It will enable vendors to setp up online shops, customers to browse through virtual shop and purchase Dairy products online without visiting the shop physically.

**Scope**

* This System allows Farmers to maintain thier Dairy products for adding or removing from catalog based on their availablity.
* The System will be able to show live Bussion Operation statistics trends through Customized dashboard for stakeholders.

**Definitions**

* + OSS: Online Dairy System
  + QA: Quality Assurance
  + Portal: Peronalized Online Web Application
  + MIS: Management Information System
  + CRM: Customer Relation Managment

BI: Business Intelligence

* + KPI:Key Perfomornace I
  + Dashboard: Personalized information presented using BI techniques such grid, score card.

**Functional Requirements**

* Any annonymous User will be able to view different Dairy products avaialble for sale. Any User will be able select product to view from categories avaialble.
* Registered Farmers will be able promote thier product for sale by adding Dairy products to the product catalog maintained by System.
* Admin will be able to approve or reject request for adding or removing Dairy products from product catalog by Farmers.
* Admin will be to track and maintain stock of Dairy products available for sale. Admin will be able to raise reqests for product updatation from product inventory.
* Farmer will be able request to add new product to product catalog maintained by system. Admin will be able to approve or reject request raised by Farmer for adding or removing Dairy products from product catalog.
* Farmer will be able to update product details which have been already added to product catalog.
* Farmers, Admin will be informed well in advaned about low stock or out of stock of Dairy products in product catalog.
* Product listing will be provided based their category, sale, quantity, likes, recommendations.
* Consumer will be able to add or remove Dairy products from Dairy cart. System will maintain Dairy cart for each consumer to maintain list of items selected by him/her. Consumer will be able view all items from Dairy cart. Dairy 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 Dairy cart maintained by system.
* Registered customer get orders history. Registered customer can get details of order from orderes been placed.
* Admin will be able get details of orders of a particular Customer. Admin will be able to 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.
* Delivery person will be able to change the status of product delivered.
* Admin will be able to monitor shipment done by their vendors.
* Customer will able to submit feedback about product they recived. Customer will able to get details about product orders placed.
* Customer will be to manage his profile maintained by system. Customer will be able change his credentails if required.
* Customer will get complete information about his orders, likes, comments, details through a dashboard.
* Customer will be able to update his payment related information.
* Customer will be able get thier purchase realted infomation using Customer Dashboard.

**NonFunctional Requirement:**

* Security
* Registered Customer will allowed to place an order.
* 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 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 Dairy 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 Dairy 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.
* Admin can reject or approve orders, Farmer requests based on role provided.
* Durability
* System will retain customer Dairy 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 Dairy products from wishlist and add to Dairy 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 Dairy 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 , Dairy 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 Dairy portal will be secure from malicious attack, fishing.
* online shoppping portal functionalilites are protected from outside with prper firewall configuration.
* online Dairy 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.