



SRS Document - srs

Software Engineering (Lovely Professional University)

Nykaa

Software Requirements Specification



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Software Requirements Specification

1.Introduction

The introduction of the Software Requirements Specification (SRS) provides an overview of the entire SRS with purpose, scope and overview of the SRS. The aim of this document is to gather and analyse give an in-depth insight of the complete **Nykaa.com software system** by defining the problem statement in detailed way. It also concentrates on the capabilities required by stakeholders and their needs while defining high-level product features. The detailed requirements of the Nykaa.com online store was provided in this document.

1.1. Purpose

Nykaa.com is an e-commerce website which allows consumers to electronically exchange goods and services with no barriers of time or distance. Electronic commerce has expanded rapidly over the past five years and is predicted to continue at this rate, or even accelerate. India's biggest online store for all cosmetics of top brands at reasonable price. Payment options – COD, EMI, Credit card, Debit card and more.

In short, the purpose of this SRS document is to provide a detailed overview of our software product, its parameters and goals. This document describes the project's target audience and its user interface, hardware and software requirements. It defines how our client, team and audience see the product and its functionality. Programming engineers make it sure that the site is high on responsiveness and low on tech errors, which is the most favourable selling point of this online store.

1.2. Scope

E-commerce is a term for any type of business, or commercial transaction that involves the transfer of information across the internet. It covers a range of different types of businesses, from consumer retail sites, through auction or music sites, to business exchange trading goods and services between corporations. It is currently one of the most important aspects of the internet to emerge.

This SRS is also aimed at specifying requirements of software to be developed but it can also be applied to assist in the selection of in-house and commercial software products. The standard can be used to create software requirements specifications directly or can be used as a model for defining an organization or project specific standard. It does not identify any specific method, nomenclature or tool for preparing an SRS.

1.3. Overview

The remaining sections of this document provide a general description, including characteristics of the users of this project, the product's hardware, and the functional and data requirements of the product. Overall description of the project is discussed in section 2 of this document. Section 3 gives the information of functional requirements, data requirements required for the software. The non-functional required in Section 4 of this document. It also discusses the external interface requirements and gives detailed description of non-functional requirements. Section 5 discussed the constraints and assumptions made while designing the E-Store.

2. Overall Description

Nykaa.com online website based on e-commerce is an outstanding way of bringing sellers and customers on an online platform to make purchase in a secured and efficient manner irrespective of distance between the two. Nykaa.com online store offers daily recommendations for discounts and offers on products based on their category.

The following SRS contains the detail product perspective from different stakeholders. It provides the detail product functions of E-Store with user classes, characteristics and documentation. It also provides the details of design implementation, operating environment, analytics includes structured data formats, google analytics provided by Google and permitted constraints, assumptions and dependencies and requirements subsets.

This document contains the problem statement that the current system is facing which is hampering the growth opportunities of the company. It further contains a list of the stakeholders and users of the proposed solution. It also illustrates the needs and wants of the stakeholders that were identified in the brainstorming exercise as part of the requirements workshop.

3. Functional Requirements

This subsection contains the requirements for the e-store. These requirements are organized by the features discussed in the product functions. Features from there, they are then refined into use case diagrams and to sequence diagram to best capture the functional requirements of the system.

3.1. Maintain Customer Profile

- The system shall allow user to create profile and set his credential.
- The system shall authenticate user credentials to view the profile.
- The system shall allow user to update the profile information.

- (1) Input: The user will select the option 'create profile'
Output: The system will display the login form on the screen and ask the user to enter his/her details.
- (2) Input: The user will enter the details
Processing: The system will check the details entered by the user that they are valid or not.
Output: If the details entered by the user are valid then a profile will be created. Else if the details are not valid then a warning box will display on the screen.
- (3) Input: The user will select the option 'update profile' if he/she wants to change the details.
Output: The system will ask the user to enter the details which the user wants to update.
- (4) Input: The user will enter the details which he/she wants to change.
Processing: The system will check the details that they are valid or not.
Output: If the details entered by the user are valid then a profile will be updated. Else if the details are not valid then a warning box will display on the screen.

3.2. Provide Search Facility

- User to enter the search text on the screen and display matching products based on the search.
 - Enable user to select multiple options on the screen to search.
 - Enable user to navigate between the search results.
 - Notify the user when no matching product is found on the search.
- (1) Input: User will select the option 'search product'
Processing: The system will ask the user to enter the keywords like company name, Product name, etc.,
Output: A textbox will appear on the user interface in which the user will enter the Keyword.
- (2) Input: User will enter the keyword
Processing: A database query will run at the backend that will search a product having keyword given by the user.
Output: If the product is searched successfully, then the product details are shown to the user. Else an error message is displayed that 'no matching product'.

3.3. Provide Shopping Bag Facility

- The system shall provide shopping bag during online purchase.
- The system shall allow user to add/remove products in the shopping bag.
- Later customer can confirm orders to purchase the products.

- (1) Input: The user will select the option 'add to bag'
Processing: The system will check the details of the product selected by the user.
Output: If the details of the product selected by the user are valid then the product will add to the shopping bag. Otherwise error message displayed.
- (2) Input: The user will select the option 'remove product' in the shopping bag.
Output: The system will remove the details of the product selected by the user from the shopping Bag.
- (3) Input: The user will select the option 'confirm order' in the shopping bag.
Processing: The system will check the details of the product confirmed by the user.
Output: If the details are correct, the system navigate the user to payment process.
Otherwise, error message displayed on the screen.

3.4. Provide Multiple Payment Methods

- The system shall display available payment methods for payment.
 - The system shall allow user to select the payment method for order.
-
- (1) Input: The user will select the option 'pay amount'
Output: The system will display all the payment methods available like COD, Credit card, Debit card, etc.,
 - (2) Input: The user will select the option 'credit card' (for example)
Output: The system will ask the user to enter the card details.
 - (3) Input: The user will enter the card details.
Processing: The system will check the card details that it is valid or not.
Output: If the card details are valid then the product amount will be taken from the card and a message displayed showing payment successful. If the card details invalid an error message will be displayed.
 - (4) Input: The user will select the option 'cash on delivery (COD)'
Output: The system will ask the user to enter the details of his/her address.
 - (5) Input: The user will enter the details of his/her address.
Processing: The system will check the details entered by the user that they are valid or not.
Output: If the details entered by the user are valid then order will be confirmed and the details displayed on the screen that when the order will deliver to the user. If the details entered by the user are not valid then an error message displayed on the screen.

3.5. Online tracking of Shipments

- The system shall allow user to enter the order information for tracking.
- The system shall display the current tracking information about the order.
- The system notifies seller about delivery of product to the customer.

- (1) Input: The user will select the option 'track my order'
Output: The system will ask the user to enter the details of the product that he/she was ordered.
- (2) Input: The user will enter the details of the product that he/she was ordered.
Processing: The system will check the details of the product entered by the user.
Output: If the details entered by the user are correct then the information regarding the product like in which place the product was there now (i.e., current tracking) and how many days it will take to reach the user's address will be displayed on the screen. Otherwise an error message will be displayed on the screen showing that your product details are not correct.

4. Non-Functional Requirements

This subsection contains the non-functional requirements for the e-store. These requirements contain the information of external user interface requirements and the requirements based on performance of the software.

4.1. Usability

- Accessibility
- The system shall provide the software to support multi languages.
- The system shall provide handicap access.
- Graphical User Interface
- The system shall provide use of icons and toolbars.
- The system shall provide a uniform look and feel between all the web pages.
- The system shall provide the pictures related to each product in the product details.

4.2. Reliability

- The reliability of the overall program depends on the reliability of the separate components.
- The main pillar of reliability of the system is the backup of the database which is continuously maintained and updated to reflect the most recent changes.
- Back-End Internal Computers
- The system shall provide for replication of databases to off-site storage locations.
- The system shall provide storage of all databases on redundant computers with automatic switchover.
- The system shall provide RAID V Disk Stripping on all database storage disks.

- Internet Service Provider
- The system shall provide a contractual agreement with an internet service provider for T3 access with 99.9999% availability.
- The system shall provide a contractual agreement with an internet service provider who can provide 99.999% availability through their network facilities onto the internet.

4.3. Security

- Data Transfer
- The system shall confirm all transactions with the customer's web browser.
- The system shall not leave any cookies on the customer's computer containing the user's password or confidential information.
- The system shall use secure sockets in all transactions that include any confidential customer information.
- The system shall automatically log out all customers after a period of inactivity.
- Data Storage
- The customer's web browser shall never display a customer's password. It shall always be echoed with special characters representing typed characters.
- 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.
- The system's back-end servers shall never display a customer's password. The customer's password may be reset but never shown.
- The system's back-end servers shall only be accessible to authenticated administrators.
- The system's back-end databases shall be encrypted.

5. Constraints

- Limited numbers search queries for the users.
- Services incapable of handling high traffic burst.
- The actual product might differ from its display image.
- Uniform quality of service is not ensured.
- It cannot ensure the reliability of the review.
- The User and Seller must have confirmed User ID and Seller ID respectively.
- Design Constraints
- Standard Development Tools:
- The system shall be built using a standard web page development tool that conforms to either IBM's CUA standards or Microsoft's GUI standards.

- Web Based Product:
- There are no memory requirements.
- The computers must be equipped with web browsers such as Internet explorer.
- The product must be stored in such a way that allows the client easy access to it.
- Response time for loading the product should take no longer than five minutes.
- A general knowledge of basic computer skills is required to use the product.

6. System Design Specification:

6.1 Architecture Design:

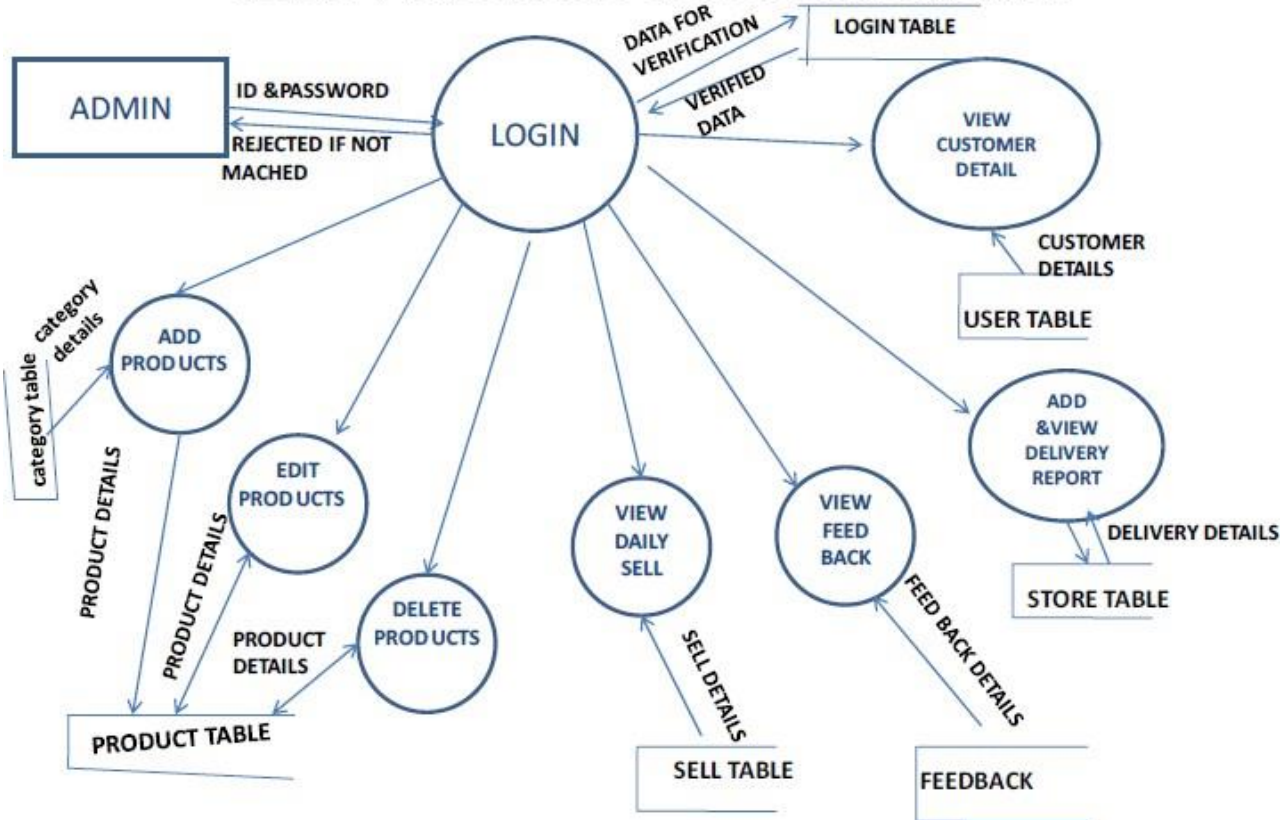
Data Flow Diagram(DFD):

It is a way of representing system requirements in graphical form; this led to modular design. A DFD describes a data flow (logical) rather than how they are processed. So they do not depend upon software, hardware, data structure or file organization. It is also known as 'bubble sort'.

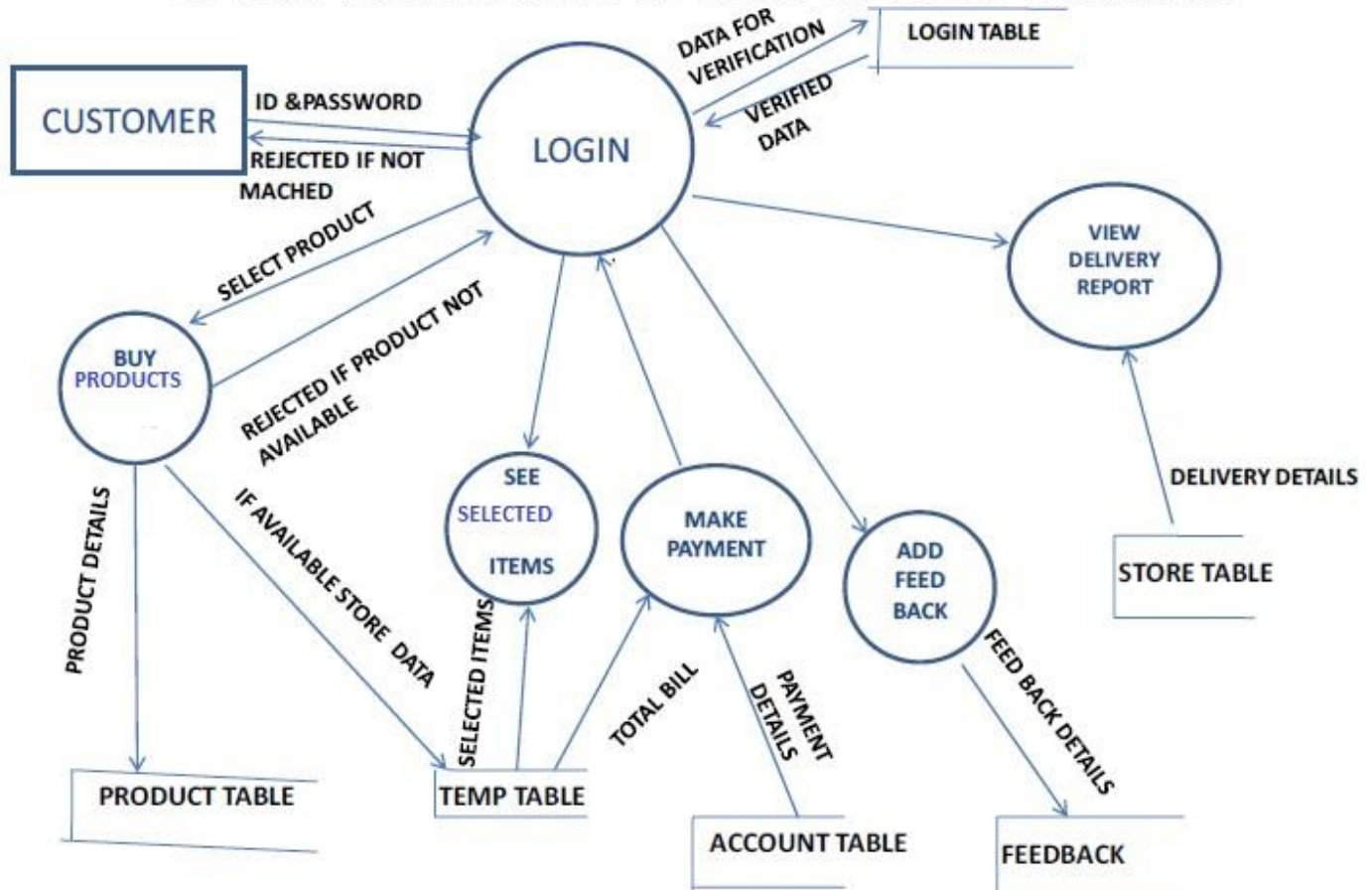
A DFD is a structured analysis and a design tool that can be used for flowcharting in place of, or in association with, information-oriented and process-oriented system flowcharts.

A DFD is considered as an abstract of the logic of information-oriented or process-oriented system flowchart. The four basic symbols used to construct dataflow diagrams are-

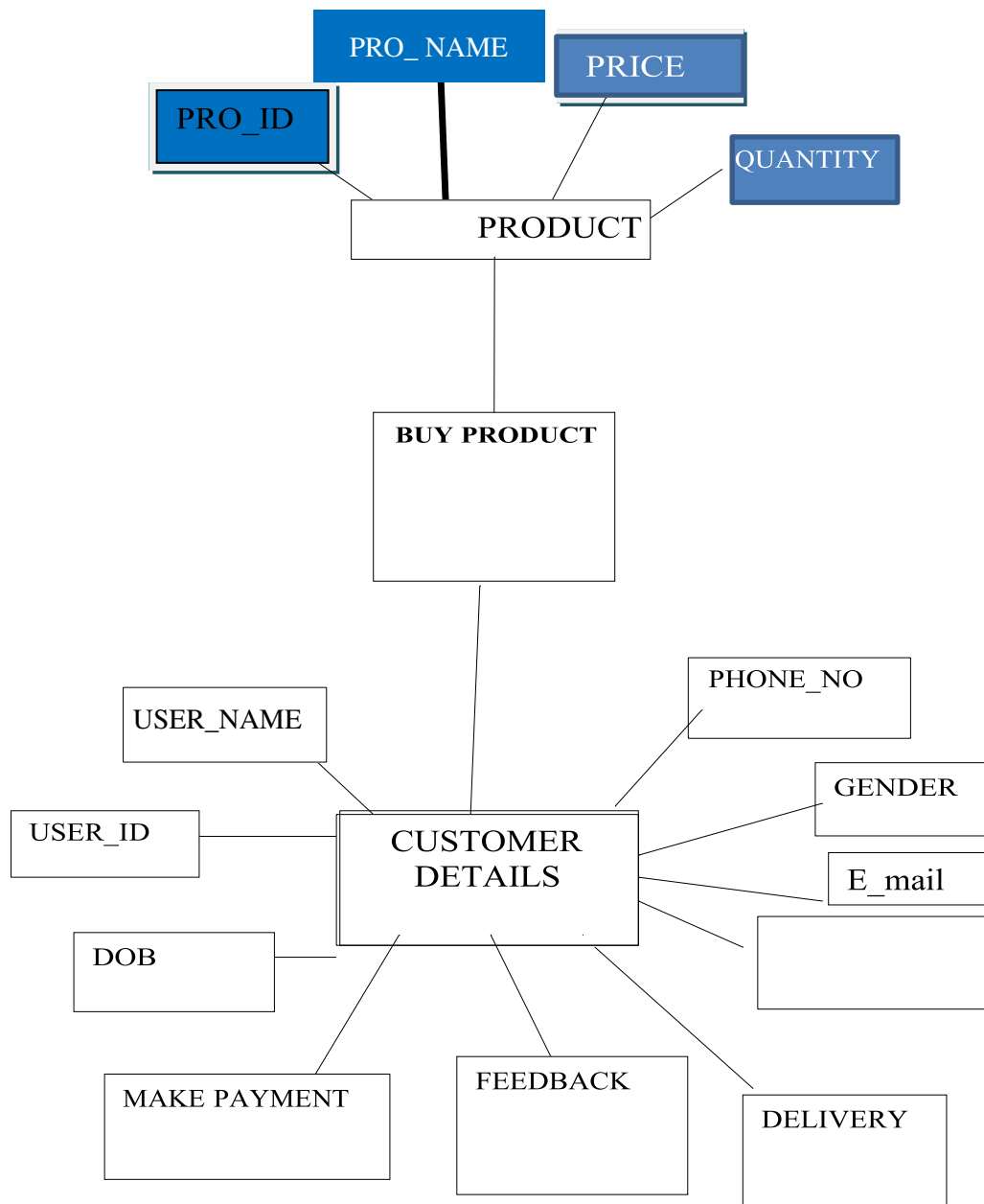
1 LEVEL DFD FOR ADMIN



1 LEVEL DFD FOR CUSTOMER



E-R DIAGRAM



TEST CASE :1

Test case : 1

Test case name : Create a NYKAA Account

Designed by : Prince Kumar Singh

Executed by : Prince Kumar Singh

Show description : Create a NYKAA Account

Designed Date : 05/10/2022

S.NO	ACTION	FAIL/PASS
1.	Open a NYKAA app.	PASS
2.	Tap on create a new NYKAA account.	PASS
3.	Type your name.	PASS
4.	Enter a valid email address or mobile number.	PASS
5.	Type your desired password.	PASS
6.	Click on Continue then Verify Email.	PASS
7.	Write down the one-time password.	PASS
8.	Return to the NYKAA App.	PASS

POST CONDITION – SUCCESSFULLY CREATED NEW ACCOUNT.

Test case : 2

Test case id : 2

Test case name : password Reset

Designed by : Prince Kumar Singh

Executed by : Prince Kumar Singh

Show description : Reset NYKAA password

Designed Date : 05/10/2022

Pre- conditions:

The user should be already signed up to NYKAA.

The user should Know this Phone number or answer to security question

STEP	ACTION	Expected system responses	Pass / Fail
1	Click on the reset button	Display reset password screen for NYKAA	PASS
2	Enter any phone number to the check that whether otp is Received by the number or Not	Enter mobile Number , then you will get OTP.	PASS
3	Answer a security question	The security question should match with display confirm message .	PASS

POST CONDITION – SUCCESSFULLY RESET PASSWORD

Test Case : 3

Test case Id : 3

Case name : Ordering a Product

Designed by : Prince Kumar Singh

Date : 05/10/2022

Excuted by : Prince Kumar Singh

Short description : Ordering a Product

Design by : Prince Kumar Singh

Pre-Conditions:-

The user should be already signed up to NYKAA account

S.NO	ACTION	PASS / FAIL
1.	Sign in to your NYKAA account.	PASS
2.	When you find an item you want, click on it.	PASS
3.	Review the item, and click Add to Cart .	PASS
4.	Click Proceed to Checkout .	PASS
5.	Enter a shipping address and click Continue .	PASS
6.	Choose a payment method and click Continue .	PASS
7.	Click Place Your Order .	PASS