

Group no:04

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1. Introduction

1.1 Purpose of Document

This is a Requirements Specification document for a new web-based sales system for Medical products. This web-portal is for Customers for selling them the required medical products and health tips to customers. The new system will upgrade the current websites to provide customers and employees customized browsing of the product the ability to complete product orders on-line. This document describes the scope, objectives and goal of the project. In addition to describing non-functional requirements, this document models the functional requirements with use cases, interaction diagrams, and class models. This document is intended to direct the design and implementation of the target system in an user friendly manner.

1.2 Project Summary

Project Name: **Health-Nexus**

1.3 Background

Health-Nexus web-portal sells products. This web-portal takes required information such as “Customer name, customer mobile-no, location, vendors name, vendors mobile, vendor company, price of the products etc.” According to the obtained analysis the web-portal suggests the Health tips for the customers they can read the health tips and follow diet plan provided in the web-portal. This type of platform offers a convenient and accessible way for people to purchase the medicines they need without having to physically visit a pharmacy. The website should have a comprehensive product catalogue featuring various medications and healthcare products. This should include product descriptions, images, prices, and availability information. The website should have a robust search and filtering system to allow customers to easily find the products they need. This should include options for searching by product name, category, and other relevant parameters. The website should have a shopping cart and checkout system that allows customers to add products to their cart, view the total cost, and complete the purchase. The checkout process should be secure and protected with SSL encryption to protect the customer's personal and financial information. An online medicine selling website can offer a convenient and accessible solution for customers to purchase the medication they need. By providing a comprehensive product catalogue, secure checkout, and efficient delivery, the website can build trust and satisfaction with its customers.

Problems with the current system include

- the information available on the public website is too limited and the user cannot immediately place an order
- the existence of two databases means information is often inconsistent or incorrect
- users who need more technical information have difficulty accessing the relevant whitepapers
- sales agents have difficulty reaching product owners

1.4 Project Scope

The scope of this project is to create a user-friendly online platform for customers to purchase medicines and healthcare products. To provide a secure and convenient way for customers to purchase medications online .To offer a comprehensive product

catalogue featuring various medications and healthcare products. Requires User registration and login system. Product catalogue featuring various medications and healthcare products. Search and filtering system to easily find products. Shopping cart and checkout system.

1.5 System Purpose

1.5.1 Users

Those who will primarily benefit from the new system and those who will be affected by the new system include

Customers:

Upon implementation of the new system, customers will find site navigation, product identification and product ordering easier. Customers will be able to choose whether to buy directly from website.

Sales Agents:

The new system will provide sales agents with more detailed, accurate and up-to-date product information. They will be informed of potential customers more quickly and they will have faster access to the product owner.

Vendors:

Product owners will be allowed to maintain the data about their products directly. This will eliminate delays in getting new products or changed product specifications into the system.

1.5.2 Location

The system will be available to any potential customer using the Internet.

1.5.3 Responsibilities

The primary responsibilities of the new system:

- provide customers direct access to up-to-date, accurate product information on which they can make a decision to buy.
 - customize product offerings to specific users, allow differential access to web pages based on type of user
 - allow customers to place an order through the website, allow product owners to maintain information about their products directly

Other desired features of the new system:

1. a consistent "look and feel" throughout the website.
2. full-text searches of the web pages a user has permission to access
3. on-line help in website navigation
4. password protection scheme for non-public web pages

The system will not be responsible for account receivables, or inventory control.

1.5.4 Need

This system is needed in order to help the users get all the required information at a single place.

1.6 Overview of Document

The rest of this document gives the detailed specifications for the new sales system. It is organized as follows:

- **Section 2: Functional Objectives**

Each objective gives a desired behavior for the system, a business justification, and a measure to determine if the final system has successfully met the objective. These objectives are organized by priority. In order for the new system to be considered successful, all high priority objectives must be met.

- **Section 3: Non-Functional Objectives**

This section is organized by category. Each objective specifies a technical requirement or constraint on the overall characteristics of the system. Each objective is measurable.

- **Section 4: Context Model**

This section gives a text description of the goal of the system, and a pictorial description of the scope of the system in a context diagram. Those entities outside the system that interact with the system are described.

- **Section 5: Use Case Model**

The specific behavioral requirements of the system are detailed in a series of use cases. Each use case accomplishes a business task and shows the interaction between the system and some outside actor. Each use case is described with both text and an interaction diagram. An interface prototype is also shown. The system use case diagram depicts the interactions between all use cases and system actors.

- **Section 6: Class Model**

A class is a collection of objects in the system that have the same data and behavior. All analysis classes and their relationships are shown on the class diagram.

- **Section 7:** An appendix containing a glossary that defines terms specific to this project

2. Functional Objectives

2.1 High Priority

- 1) The application shall allow Customers to choose product (medicines etc.),Based on availability of product item.
- 2) The application shall provide information about the chosen product.
Price, side effects etc.
- 3) It shall also provide vendors of different companies to upload their products.
- 4) The application provides information of different kinds of Health Library.
- 5) The application provides more customer satisfaction just by giving more discount
By giving more offer cards to customers on their products.

2.2 Medium Priority

1. The application shall provide facility to search through the web pages.
Searches like medicines, health tips, location details, etc. Search shall support partial string searching.

2.3 Low Priority

1. The application shall provide Lab tests opportunity from which Customer provides samples to test reports
2. The application shall provide Ayurvedic medicines very little products.

3. Non-Functional Objectives

3.1 Reliability

1. The application shall be completely operational at least 23 hours a day. Changes and down time maximum will be in the mid night time according to IST.
2. Down time after a failure of the website server, does not exceed 2 hours.

3.2 Usability

1. Unregistered users can also access information about Products and details, but are not able to buy their products.
2. Registered users can login into their account and access all the allowed web pages and vendors can upload their products.

3.3 Performance

1. The application shall support 1000 simultaneous users.
2. The mean time to download and view and whitepaper in PDF format for a 56Kbps modem shall not exceed 10 seconds.

3.4 Security

1. We shall follow encryption of user details and store it safely in the server database.
2. The login credentials shall be hashed for verification of user, while logging in account.

3.5Online user Documentation and Help

- 1) The system shall provide a web page that explains how to navigate the site. This page should be customized based on what pages that user is allowed to access.
- 2) This help page should be accessible from all other pages.

4.The Context Model

4.1 Goal Statement

- The goal of this web-portal is to guide and provide essential Products based on various conditions or requirements.
- For further upgrading the health condition of customer by basic health tips.
- Giving vendors accurate information about the type of products they need to sell announced by the admin user and all other information regarding the products they sell through this application.

4.2 System Externals

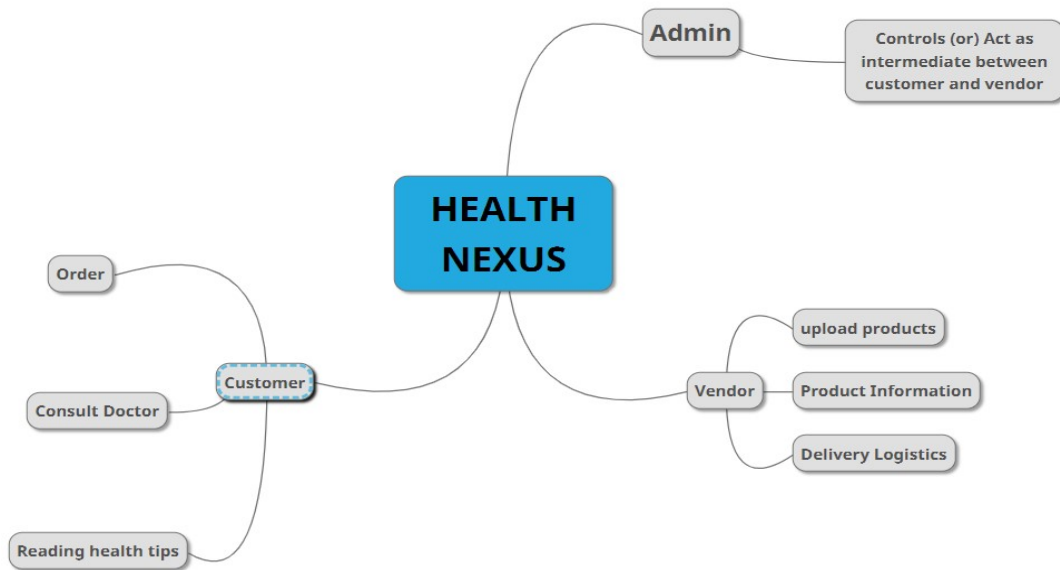
Customer: A customer may search for public product information by keyword, access whitepapers for a particular product, order a product or request assistance from a sales agent. A customer who provides personal information will get search and query results customized to his preferences.

Vendor: A vendor may sale his products in this application portal by signing in into the website. He will be informed by the system of any customers in his region who have requested assistance.

Admin: Admin is the user who acts as mediator between customer and vendor.
- The price of product is decided by admin based on quality and other Circumstances.

5. The Use Case Model

5.1 System Use Case Diagram



5.2 Use Case Descriptions (for selected cases)

Notes:

- For all use cases, the user can cancel the use case at any step that requires user input. This action ends the use case. Any data collected during that use case is lost.
- For all use cases that require a logged in user, the current login session is updated during the use case to reflect the navigation paths through the use case.

Sign in User

Use Case Name:	Sign in User
Summary:	In order to get personalized data and participate in discussions and save relevant data a user must login so that the system will show his saved data and discussions
Basic Flow:	<ol style="list-style-type: none">1. The use case starts when a user indicates that he wants to sign in.2. The system requests the username or email or mobile number and password.3. The user enters his username or email or mobile number and password.4. Then user is requested to enter correct captcha5. The system verifies the username or email or mobile number and password against all registered users.6. The system starts a login session and displays a welcome message based on the user's preferences.
Alternative Flows:	<p>Step 5: if username is invalid, the use case goes back to step 2.</p> <p>Step 5: if the username or password doesn't match the system requests that the user re-enter the details. When the user enters another details the use case continues with step 5 using the original username and new password.</p>
Extension Points:	none
Preconditions:	The user is already registered.
Post conditions:	The user can now obtain data and perform functions according to his registered access level.
Business Rules:	None

Sign Up

Use Case Name:	Sign up
Summary:	In order to save some data and participate in discussions to get assistance for your problem or to help others, a new user must register with an email or mobile number.
Basic Flow:	<ol style="list-style-type: none">1. The use case starts when a user indicates that he wants to sign up.2. The system requests an email or a mobile number and username and password.3. The user enters an email id or a mobile number and username and password.4. The system checks that the username does not duplicate any existing registered usernames.5. The system requests a name, city, state, pin code.6. The user enters the information.7. The system stores all user information.8. The system starts a login session and displays a welcome message based on the user's preferences.
Alternative Flows:	<ul style="list-style-type: none">• Step 4: If the username duplicates an existing username the system displays a message and the use case goes back to step 2 <p>Step 5: The user can now obtain data and perform functions according to his registered access level</p>
Extension Points:	None
Preconditions:	Should have an email or a mobile number
Post conditions:	The user can now obtain data and perform functions according to his registered access level

Business Rules:	none
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Register Preferences

Use Case Name:	Register Preferences
Summary:	This use case allows a registered user to enter or change his preferences.
Basic Flow:	<ol style="list-style-type: none"> 1. The use case starts when a user indicates that he wants to enter or modify his preferences. 2. The system displays all current details. 3. The user edits any fields to edit except username. 4. The system displays edited and new details. 5. The system requests the user to enter any other fields if left empty.
Alternative Flows:	none
Extension Points:	none
Preconditions:	The user is logged in.

Post conditions:	The system can customize a welcome message based on the user's revised preferences.
Business Rules:	None

Place Order (Customer)

Use Case	Place Order (Customer) Customer places his own order.
Summary:	This use case allows a registered customer to place an order for a product.
Basic Flow:	<ol style="list-style-type: none"> 1. The use case starts when a customer indicates he wants to place an order for the current product being displayed. 2. The system displays the customer's information: name, street, city, zip, phone, email. 3. The customer may add or change any information. 4. The system requests the quantity to order and the shipping address. 5. The customer enters quantity and shipping address. 6. The system displays the payment options available to this customer.. 7. The customer selects a payment option.

Alternative Flows:	Step 4: If the quantity on hand is not sufficient for this order, a message is sent to the customer and the use case is cancelled.
Extension Points:	None
Preconditions:	The customer is logged in and has search for the product.
Post conditions:	The Product is sold.
Business Rules:	None

Sales

Agent(Vendor)

Use Case Name:	Vendor
Summary:	This use case vendor sells his company products through this portal.
Basic Flow:	<p>Vendor should login with his information. The system checks if the information of the login vendor.</p> <p>The vendor can save the given data.</p> <p>The vendor also gets the announcements of the product which is in high demand.</p> <p>The user can sell his products buy upload his products in the website</p> <p>Then the system will show the message product has uploaded an price will be updated soon.</p> <p>.</p>
Alternative Flows:	<p>Step 2: If the given login details are wrong then it shows an error message will continue step2 again.</p> <p>Step 4: The user should not upload same product multiple times.</p>
Extension Points:	None.
Preconditions:	The vendor is logged in.
Post conditions:	The system displays a message thanking the vendor for selling Their product.
Business Rules:	None

6. Appendix

Glossary

Whitepaper

Technical paper containing detailed product specifications.