Software Requirements Specification

for

Product Management System

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1. Introduction

1.1 Purpose

The System aims at neatly managing the details of the product to reduce the time of listing the products on diary, searching the products. The software helps in adding, editing, deleting and searching the required product in an efficient manner.

1.2 Intended Audience and Reading Suggestions

Document can be referred by users who are planning to develop such a product or wanted to add features to existing products. Each individual, project managers, marketing staff, users, testers, and documentation writers can refer to the document.
Start reading the document sequentially for clear understanding. Next section will contain project scope, description of project, system features and requirements.
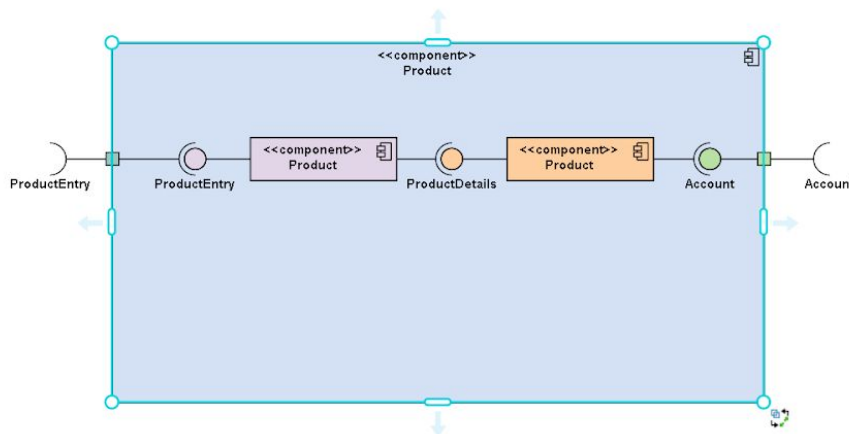
1.3 Project Scope

The project aims at providing an efficient interface to the individual or businesses using the product for managing their products. The basic idea is to add the product, view all the products, edit the products and delete unwanted products.

2.   Overall Description

2.1   Product Perspective

The project is solely for users who want to manage their product, keep track of their products.

<p align="center">Component Diagram</p>

2.2   Product Features

1. Creating new user
2. Adding products
3. List all Products
4. Edit Products
5. Delete Products

2.3   User Classes and Characteristics

- Admin

There is only one user of project will all the privilege :

1. Admin can add the product using add functionality.
2. Admin can edit the attributes of the product.
3. Admin can delete the specific product.
4. Admin can list all the products in the database.

2.4   Operating Environment

1. The system must be able to run on the Windows operating systems beginning with Windows XP, and must be able to run on Windows 7,8,10 and all other operating systems.
2.   Minimum ram should 1 GB
3. JDK 1.8 or higher
4. Oracle Database
5. Any suitable Browsers

2.5   Design and Implementation Constraints

1. JavaScript must be ON on browsers
2. Java version higher than 1.8
3. Browsers should be UpToDate. Outdated browsers can exploited with known vulnerabilities
4. Database used is oracle if needed to use different databases, changes should be done in driver code.

3. System Features

3.1 Add Product

3.1.1 Description and Priority

By using this feature the user can add the product with details like product id, product name, category, price.

3.1.2 Stimulus/Response Sequences

1. Click on add product in header
2. New page will be opened. Fill all the required details.
3. Click on add.

3.1.3 Functional Requirements

1. Click on add products to add product details.
2. Product id should be a positive integer.
3. The appropriate product name should be given with the appropriate category and price.
4. Clicking on add should add the product.

3.2 Edit Product

3.2.1 Description and Priority

By using this feature user can edit product with details like Product name, category, price.

3.2.2 Stimulus/Response Sequences

1. Click on view product in header.
2. Click on edit on required product.
3. Edit the required details.
4. Click add.

3.2.3 Functional Requirements

1. Click on edit products to edit Product Details.
2. Product id should be a positive integer.
3. Appropriate product name should be given with the appropriate category and price.
4. Clicking on add should save the edited product.

3.3   Delete Product

3.3.1   Description and Priority

By using this feature, users can delete the product.

3.3.2   Stimulus/Response Sequences

1. Click on view product in header.
2. Click delete on the required product.

3.3.3   Functional Requirements

1. clicking on Delete should delete the product from the database.

4. External Interface Requirements

4.1 Software Interfaces

1. JDK 1.8 is required to run this program.
2. Connection must be established between database and java program using specific drivers for different databases.
3. Browsers must keep updated for proper view of UI.

5. Other Nonfunctional Requirements

5.1 Performance Requirements

1. The system must not lag.
2. The system must complete updating the databases, adding products successfully every time the user requests such a process.
3. All the functions of the system must be available to the user every time the system is turned on.

5.2 Safety Requirements

1. The software must be licensed on an individual basis for smaller companies, as well as through a multi-license deal for larger corporations.

5.3 Supportability Requirements

1. The software is designed such that it works even on systems having the minimum configuration.
2. The system is adaptable even if additional plugins or modules are added at a later point.

5.4 Implementation requirements

1. The System User Interface is built on Html, CSS.
2. The programming is done in Java, Eclipse.
3. The Database is implemented on the Oracle.
4. The connection between the Database and the System is achieved using ODBC connection.

6. Other Requirements

1. The system must be easy to use as one does not need to read an extensive amount of manuals.

2. The system must be quickly accessible.
3. The system must be intuitive and simple in the way it displays all relevant data.
4. The menus of the system must be easily navigable by the users with buttons that are easy to understand.