Software Requirements Specification

for

Lockedme.com

Version 1.0

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# Introduction

## Purpose

To digitize the products of store to manage them efficiently.

Developers, project managers, marketing staff, users, testers, and documentation writers. This document comprises of application requirements, feature, product capabilities, appearance, application design, flow charts and user interaction guide.

## Project Scope

Lockedme.com app aims to digitize the product of the store to manage them effectively. Application allows user to retrieve available products in the store. User can add/delete/search product of their choice. It also provides excellent navigation such as option to go back and access main menu anytime. It is robustly designed and developed in Java to provide efficient capabilities. This Application can be used to manage any grocery store.

# Overall Description

## Product Perspective

This Application prototype is designed to fulfill the basic requirements of a grocery store to manage and run them efficiently.

2.1.1 System Interface:

The application can run on any version of windows, Mac and Linux.

2.1.2 User Interface:

This application provides welcome screen with options to view and manage the available products. It excepts the input from through command line. It consists of below options.

* View products.
* Add new product.
* Delete existing products.
* Search products.
* Navigation options to go back or Main Menu.

## Product Capabilities

* *Code to display the welcome screen. It displays:*
  + *Application name and the developer details*
  + *The details of the user interface such as options displaying the user interaction information*
  + *Features to accept the user input to select one of the options listed*
* *The first option returns the current file names in ascending order. The root directory can be set in main file.*
* *The second option returns the details of the user interface such as options displaying the following:*
  + *Add a file to the existing directory list*
    - *It ignores the case sensitivity of the file names*
  + *Delete a user specified file from the existing directory list*
    - *It includes the case sensitivity on the file name in order to ensure that the right file is deleted from the directory list*
    - *Return a message if FNF (File not found)*
  + *Search a user specified file from the main directory*
    - *You can add the case sensitivity on the file name to retrieve the correct file*
    - *Display the result upon successful operation*
    - *Display the result upon unsuccessful operation*
  + *Option to navigate back to the main context*
* *Application has third option to close the application*
* *Implement the appropriate concepts such as exceptions, collections, and sorting techniques for source code optimization and increased performance*

# Development Method: Agile (Scrum)

## Number and duration of sprint

**Scrum** is an **agile** process most commonly used for product **development**, especially **software development**. **Scrum** is a project management framework that is applicable to any project with aggressive deadlines, complex requirements and a degree of uniqueness.

We identified 42 product backlogs which then converted to 10 user stories. There are three sprints used to develop the entire application.

Sprint 1: Sprint one comprises of 3 user stories and the duration is 1 week.

* Task achieved.
  + - 1. Welcome Screen.
      2. Product flow.
      3. User interaction options.

Sprint 2: Sprint 2 consists of 2 user stories and the duration is 1 week.

* Task Achieved.
  + - 1. Class and methods to retrieve list of products.
      2. Program flow.
      3. Functionality of go back.

Sprint 3: Sprint 3 consists of 4 user stories and duration is 1 week.

* Task Achieved.
  + - 1. Class and methods of FileOperationScreen.
      2. Program flow.
      3. Functionality of go back.

# Algorithms & Flow chart

## Algorithm.

1. Print Welcome Screen and options to receive input from user.

* Press 1 to see the list of products.
* Press 2 to update product list.
* Press 9 to close Application.
* Please enter the value as per your choice

1. Input choice from user.
2. While (option !=9 )

* If (option ==1) 🡪 retrieve Product List 🡪 input from user 🡪 if option is 8 🡪 go back to main screen, if option is 9 🡪 close application.
* If (option ==2)🡪 Go to product Operation Screen
  + - * 1. Product operation options
        2. Input choice from user
        3. If (option == 1) 🡪 Add product to root dir.
        4. If (option == 2) 🡪 Delete product from root dir.
        5. If (option == 3) 🡪 Search product from root dir.
        6. If (option == 8) 🡪 Go back to Main Screen.
        7. If (option == 9) 🡪 Close Application.

1. If (option == 9) 🡪 Close Application.

## Flow Chart

# 

Main Menu

Press 1 for Product List

Press 2 For Product Operation

Press 9 to close App

If Option

Option == 9 Option == 1

Product List()

Press 8 for Main Menu.

Press 9 to Terminate.

Option == 2

Option == 8

If Option

Product Operations()

Press 1 to add new product.

Press 2 to delete product.

Press 3 to Search product

Press 8 for Main Menu.

Press 9 to Terminate.

Option == 9

Option == 9 option ==8

If Option

AddProduct()

Product Added

DeleteProduct()

Not found

If Option

Product

not found

SearchProduct()

Product Found

Product Found

If Option

Product Not Found

Product Deleted

# Technical Specifications

Application is developed in Core Java which provide optimal security and robustness. Below are the core concepts used to develop.

1. Access modifier.
2. Primitive data types.
3. Oops Concepts.
4. Encapsulation.
5. Inheritance.
6. File handling.
7. Linear Search.
8. Loop.
9. Flow control.

# GitHub Links

Final Project Link: <https://github.com/sdgishraddha/First-Project-Virtual-Database/tree/master/VirtualDatabase>

# Conclusion

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