
Software Requirements Specification

for

PINK

Version 2.0

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Debug Entity

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Revision History

Name	Date	Reason For Changes	Version
	4/8/21	To make the SoW more refined.	2.0

Sections	Contributors
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1. Introduction

1.1 Purpose

About 59 per cent of the startups and micro, small and medium enterprises (MSMEs) in India scaled down, shut down or sold themselves in 2021 due to the impact of the second wave of Covid-19 pandemic, according to a survey by community platform LocalCircles. Many boutiques, tailoring shops and matching centers too closed down. Shopping offline has been reduced drastically. Opting to an online website portal opens new opportunity for all.

Our product will give a platform for our client Pink Designerz to sell their items easily.

1.2 Document Conventions

All the information in software requirement specification is the text family Arial with size 11 for paragraph and for headings and sub heading follow text family Times with size 14 and are in bold. All listing details are displayed with bulletins.

1.3 Intended Audience and Reading Suggestions

During a pandemic, people are suggested to stay at their homes and maintain a social distancing. People cannot but in normal shops as they used to. Transition occurs here from offline shopping to online shopping. Now everyone of all ages can utilize this website to buy the items they want from here. Busy people unable to spend time on shopping can utilize this website.

All information is paragraphed with the respective sub heading under a main heading.

1.4 Product Scope

Existing problem:

- Small scale merchants mostly will rent a store separately and will store their goods in bulk in a warehouse, so many merchants will have to pay rent for store or warehouse or sometimes for both
- There also exists transportation cost for transferring goods from warehouse to the shop
- Sales is restricted to the location within the shop's physical location
- Diseases like corona virus spread through air, people will have doubts in coming to shops and buying goods.

EXISTING PROBLEM OVERCOMING THROUGH PROJECT

- Development of an online website requires no need physical location of store since, everything is dealt online, so this reduces the cost of rent for physical store

- Also cost incurred for the staff in a physical store is reduced since customers will view the product through online.
- Geographically, anyone can buy from the store, since customers shop through the online website and shipment charges will be based on the location of the customer
- Website application creates less physical interaction and hence disease spread can be prevented.
- people will not have the fear of the disease since everything is online and goods get delivering at doorstep

1.5 References

https://www.business-standard.com/article/companies/covid-19-impact-many-startups-msmes-stare-at-closure-says-survey-121052601337_1.html

2. Overall Description

2.1 Product Perspective

This product is mainly for Pink Designerz! which doesn't have a proper platform on which they can sell their products. This product is not a follow-on member of a product family or a replacement. This product is just an interface where customers can directly place orders for the items, they wish to select without involving other personal contact methods like WhatsApp or any social media platforms. It's for an easy purchase experience.

2.2 Product Functions

This product gives a platform for our client to list out all that they have to sell with the prices. They are given the options to insert, delete, or modify the details. On this site they allow their customers to buy their goods easily. The customer on this site can create accounts to look over their previous orders. It reduces manual work for both the customers and our client as everything will be uploaded in the databases.

2.3 User Classes and Characteristics

The user classes include:

- *The administrators: The people who update the data regarding what is available.*
- *The customers: The people who buy the items being sold.*

2.4 Operating Environment

This product requires a good internet connection and will operate on all browsers like Google Chrome, Mozilla Firefox and Microsoft Internet Explorer. The hardware configuration includes Hard Disk: 40GB, Monitor: 15-inch Color monitor, Keyboard: 122 keys. The basic input devices required are keyboard, mouse and output devices are monitors.

2.5 Design and Implementation Constraints

A shopping website provides a catalog of available items from which users select products of interest. The selected items are collected in a shopping cart. At the time of checkout, the product may or may not be purchased. As and when a purchase happens the database needs to be updated to avoid any problems. The goal of our developing team is to make sure proper updating happens.

Constraints include:

- *Databases not getting properly updated.*
- *Unstable internet connections while the data is being updated.*

2.6 User Documentation

A user manual for how to update the databases will be delivered along with the product.

2.7 Assumptions and Dependencies

The assumptions are:

- *The coding should be error free.*
- *The system should be user friendly*
- *Should have fast access to the database*
- *Runs 24 hours a day*
- *Must have Stable internet connection*
- *Users enter correct username and passwords.*

The dependencies are:

- *The end users (admin) should have proper understanding to the product.*
- *The information of all users must be stored in a database that is accessible by the Pink Designerz! system*

3. External Interface Requirements

3.1 System Interfaces

Any popular operating system that will allow the use of a modern browser to view and download web pages.

3.2 User Interfaces

Logical Characteristics: The GUI of the product shall be designed in HTML/PHP, allowing a multitude of different user's access. The HTML design will remove most limits of access because every popular operating system has HTML viewing capabilities.

Aspects: The system shall have content that will only be viewable to the user if they are logged in correctly. Also, there shall be different types of users having different accessing/viewing/modification privileges. For instance: 'User: Admin will be able to add/remove items and check history of orders, but cannot place orders' Also: 'User: Customer will be able to view available items and place orders, but cannot add/remove items.'

3.3 Hardware Interfaces

An internet connection to allow the browser software interfaces to connect to the internet to access the files of the website.

3.4 Software Interfaces

Name: Mozilla Firefox

Mnemonic: Firefox

Source: mozilla.org/Firefox

Purpose: To allow remote access of the website and to view files via the internet.

Name: Microsoft Edge

Mnemonic: IE

Source: microsoft.com

Purpose: To allow remote access of the website and to view files via the internet.

Name: Apple Safari

Mnemonic: Safari

Source: apple.com

Purpose: To allow remote access of the website and to view files via the internet.

Name: Opera

Mnemonic: Opera

Source: opera.com

Purpose: To allow remote access of the website and to view files via the internet.

Name: Google Chrome

Mnemonic: Chrome

Source: google.com/chrome

Purpose: To allow remote access of the website and to view files via the internet.

3.5 Communications Interfaces

Internet Protocol (IP) shall be used by the software interfaces to connect to the internet

4. System Features

4.1 Login Page

4.1.1 Description and Priority

This page allows the user to login to the website. The users are needed to enter a username and password and it will take them to the next page. For admin users it'll take them to the admin page. For customers it'll take them to the catalogue.

4.1.2 Stimulus/Response Sequences

Stimulus: User enters correct username and password

Response: The login button will take them to the next page as mentioned above.

4.1.3 Functional Requirements

REQ-1: *Valid username and password is entered.*

4.2 Admin page

4.2.1 Description and Priority

This page allows the admin to add, delete and update the available items. The admin is given access to update the main database.

4.2.2 Stimulus/Response Sequences

Stimulus: Admin presses add button

Response: Admin is allowed to insert new values into the database.

Stimulus: Admin presses the delete button

Response: Admin is allowed to enter in the row they want to delete

Stimulus: Admin presses update button.

Response: Admin is allowed to modify the table in a particular row

Stimulus: Admin presses status

Response: Admin is allowed to see the status of the different orders that were placed

4.2.3 Functional Requirements

REQ-1: *Admin enters correct details and is aware of what they are doing.*

4.3 Catalogue

4.3.1 Description and Priority

Details of all the saree are shown with separate categories and based on color and material type sarees are classified into separate categories. Cart and order history option are also available in the catalogue. It's the main page where the product is shown to the customer so this feature has high priority.

4.3.2 Stimulus/Response Sequences

Stimulus: user selects the saree to add to cart

Response: item gets added to cart

Stimulus: User presses cart button

Response: Website gets redirected to the cart page

4.3.3 Functional Requirements

REQ-1: *user selects their required product category*

4.4 Checkout Page

4.4.1 Description and Priority

This page shows the list of sarees selected by the customer, here the user can increase or decrease the quantity of individual sarees chose by the user at earlier stage. The total price calculations are done in the cart according to the selection of

saree and quantity by the user. Displaying the user, the total calculation amount for all the product selected by user and to get confirmation from the user.

4.4.2 Stimulus/Response Sequences

Stimulus: user selects the confirmation option

Response: After confirmation, redirection to payment page.

4.4.3 Functional Requirements

REQ-1: Calculation of total amount, by calculating separately the cost involved for each saree along with its quantity.

4.5 Payment Page

4.5.1 Description and Priority

In payment page the user selects payment mode and enters card number, name, expiry date of card and cvv for required amount and complete their payment process. OTP is sent for verification and the money will be withdrawn from the user's card

4.5.2 Stimulus/Response Sequences

Stimulus: User selects payment mode.

Response: After authentication, and after proper payment processing, Payment success message is displayed to the user.

4.5.3 Functional Requirements

REQ-1: User should enter the payment details such as card number, card name, date of expiry, cvv number.

REQ-2: Proper authentication and smooth payment process by validating One Time Password in accordance with the bank details

4.6 Cart

4.6.1 Description and Priority

In the cart the user views what he/she has selected from the catalogue and has the option to remove items if he/she doesn't want the item. Once they are satisfied with all that they chose, they can proceed to pay by clicking the checkout button.

4.6.2 Stimulus/Response Sequences

Stimulus: User clicks remove.

Response: The item in the cart is removed.

Stimulus: User clicks checkout

Response: User redirects to checkout page.

4.6.3 Functional Requirements

REQ-1: User should be logged into the website.

4.7 Profile Details

4.7.1 Description and Priority

Details of the user like name, email, phone number are shown in this page and an option for changing their password for their account is also available here. This page has high priority as it contains the user's details and an option for changing password.

4.7.2 Stimulus/Response Sequences

Stimulus: User selects profile.

Response: Details of the user displayed.

Stimulus: User clicks change password button.

*Response: New password is entered by the user after confirming the old one.
Password is updated in the database.*

4.7.3 Functional Requirements

REQ-1: Users details should be displayed properly.

REQ-2: The new password should be updated in the database.

5. Other Nonfunctional Requirements

5.1 Performance Requirements

In order to maintain an acceptable speed at maximum number of uploads allowed from a particular customers will be any no. of users can access the system at any time. Also, connections to the servers will be based on the criteria of attributes of the user like location, and server will be working whole 24x7 times.

5.2 Safety Requirements

In this online shopping site, there are many safeties added. If customer wants to buy the product, then he/she must be registered. Unregistered user can't go to the shopping cart.

Customer logs in to the system by entering valid user id and password for the shopping.

The customer after registration and login can make order or cancel the order of the product from the shopping cart.

5.3 Security Requirements

The system uses SSL (Secured socket layer) in all transactions that include any confidential customer information.

The system must automatically log out all customers after a period of inactivity.

The system should not leave any cookies on the customer's computer containing the user's password.

The system's back-end servers shall only be accessible to authenticated administrators.

*Sensitive data will be encrypted before
being sent over insecure connections
like the internet.*

5.4 Software Quality Attributes

- functional suitability: functional completeness, functional correctness, functional appropriateness;
- performance efficiency: time behavior, resource utilization, capacity;
- reliability: maturity, availability, fault tolerance, recoverability;
- usability: appropriateness, recognizability, learnability, operability, user error protection, user interface aesthetics, accessibility;
- security: confidentiality, integrity, non-repudiation, accountability, authenticity;
- compatibility: co-existence, interoperability;
- maintainability: modularity, reusability, analyzability, modifiability, testability;
- portability: adaptability, install ability, replaceability

5.5 Business Rules

- Shop at known entities.
- Set your own standards.
- Shop at secure sites.
- Pay with a credit card.
- Ask, don't tell.
- Don't open unsolicited e-mails.
- Look for a seal of approval.
- Know where to file a complaint.
- Know your rights.
- Learn about product safety.

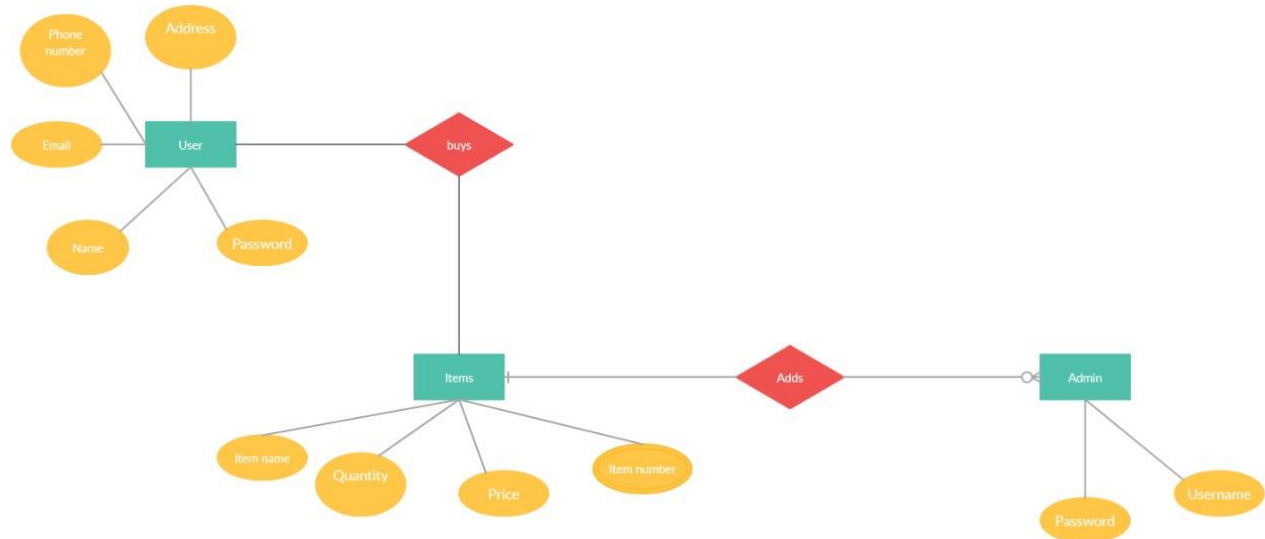
6. Other Requirements

Appendix A: Glossary

1. GUI - (graphical user interface) is a type of user interface through which users interact with electronic devices via visual indicator representations.
2. HTML - (HyperText Markup Language) is the standard markup language for documents designed to be displayed in a web browser.
3. PHP - (Hypertext Preprocessor) is a widely-used open-source general-purpose scripting language that is especially suited for web development and can be embedded into HTML.
4. IP - (Internet protocol) used by the software interfaces to connect to the internet
5. TBD - to be determined

6. SSL - (Secure Sockets Layer) It is the standard security technology (a protocol) that offers secure communication between web servers and browsers (web clients) over an insecure network, such as the internet.

Appendix B: Analysis Models



Appendix C: To Be Determined List

The other tables will also be included in the ER Diagram

THE UI DESIGNS, PERFORMANCE REQUIREMENTS AND ER DIAGRAMS WILL BE ALTERED IN VERSION 3.0