

# **SOFTWARE REQUIREMENT SPECIFICATION**

Pratul Singh  
B20CS095

## **0. PREFACE:**

This document is about the building of an online spectacles selling platform and aims at mentioning all the features, requirements, and other aspects of it.

## **1. INTRODUCTION:**

### **a. CONTEXT:**

A company that wants to sell its spectacles online and requires a software that would serve as a medium between them and their customers.

### **b. PROBLEM SPECIFICATION:**

In today's time, almost everybody wears glasses and they have to go to the shop to buy one. That is often time-consuming, costly, and also gives less variety to the customers. Having a system where one could buy spectacles sitting at home would solve each and every problem listed above.

### **c. SCOPE OF THE DOCUMENT:**

This document is intended to be read by the developers who will get the basic idea of what they have to do and also by the clients who can verify if the document contains everything they want from their software. This document is also intended to be read by everybody who is involved in the making of this software in any way like testing, etc.

### **d. SUMMARY/OVERVIEW OF THE DOCUMENT AND ITS STRUCTURE:**

The following part of this document discusses the various aspects of the product and the plan of its making. The second part of this document contains a general description of the workflow and the product. The third part has the functional requirements of the client that they want to incorporate into the software. The fourth part lists all the interface requirements that the client wants. The fifth part contains details about the performance of the software that the client is expecting. The sixth part has the design constraints, the seventh part has the non-functional requirements and the eighth and the last part mentions the schedule and the budget estimate in the context of this software.

## **2. GENERAL DESCRIPTION:**

### **a. WORKFLOW:**

- The new users can signup to register themselves.
- After registering the users can login whenever they want.

- The user can browse different categories under which spectacles, goggles, etc are listed.
- The user can then add the products he/she wants to buy to the cart or can directly buy the product.
- In the process of buying, the user should be presented with different kinds of lenses from which they can choose the one they want.
- They then should be able to submit their lens power and address and then proceed to the payment process.
- After payment process they should receive a confirmation text and mail and should also be able to track their order.
- They should then have the option to browser more or simply log out.

***b. USE-CASES/USER SCENARIOS:***

- User should be able to buy multiple spectacles and submit different powers for each of them.
- The user should be asked for his/her pincode and should be able to see only those products that are deliverable to his/her area.
- Stakeholders should be the people working in the company, the software management team and the users, all of them should have different kind of relevant interfaces.

***c. OVERALL DESCRIPTION OF THE SOFTWARE PRODUCT:***

- The software will be able to learn about the requirements of the user and will suggest the products that are most relevant for him/her.
- The software will work on all the common operating systems and will be made as user-friendly as possible.

***3. FUNCTIONAL REQUIRMENTS:***

- Login/sign up for the users
- Option to add items to cart
- Option to add items to the wishlist
- Feature of trying different glasses on their own photos
- Option of chatting with experts
- Feature which could suggest the face shape of the user
- Feature that would help user find the spectacles as per their face shape
- Option to allow the users to change their personal details and their payment options
- Option to allow users to rate and give review about the product they recently purchased

- Feature which would allow user to filter the products depending on their requirements and categories.
- All kinds of famous payment methods should be allowed.
- Users should also be able to not just browse but also search for their required products.
- The products should be labelled with as many relevant tags as possible to enhance user search experience.
- User should be able to check previous orders or track their current orders.
- User should be able to also submit any bug that he/she notices in the software.

#### **4. INTERFACE REQUIREMENTS:**

There should be different interface for different people like users, clients and the people maintaining the software.

- **Interface for users** should have the following features:
  - Should be very user-friendly, should not have any technical terms.
  - Should have a homepage that would allow them to visit all the different sections.
  - The homepage should have a dashboard that would contain options like browser, search, cart, wishlist, contact us.
  - The homepage should allow users to also browser different categories under which the items are listed.
- **Interface for the clients:**
  - The clients should be able to see the orders placed by all the customers
  - The clients should be able to edit the information of all the products
  - The clients should be able to read the queries of the customers

#### **5. PERFORMANCE REQUIREMENTS:**

- The software should be able to handle around 1000 accounts created per second, the usual expected heavy traffic hours are expected to be in the evening, so the software should not have any problem during that time.
- As of now, the software should have the capacity of storing at least a million accounts and this capacity should be such that it can be altered in the future.
- The software should also be able to handle at least 100k transactions per second
- In a scenario where the software has to go down for maintenance then it should be notified to the users with the expected time on their homepage itself.

#### **6. DESIGN CONSTRAINTS:**

- The software should work on mobiles as well as all other common electronic devices.

- The software should save some data that is browsed by the user for some time especially in cases when the user has weak internet connectivity to provide some level of smoother experience to the users.
- The design should be such that it can be altered as per the requirements like it should have the feature of changing its themes depending on different festivals, etc.

## **7. NON-FUNCTIONAL REQUIREMENTS:**

### ***a.Measures:***

Testing for different aspects should be conducted regularly and initially.

- The testing team should use the software from the user's point of view using the user's interface regularly and should try to find glitches on the software.
- Users should also have a function to report glitches and bugs to the team and should also be rewarded for the same.
- The test team should test the stress and load on the software and make sure it works as per the performing requirements.
- It should be taken care of that fake ids and bots are minimal.

## **8. SCHEDULE AND BUDGET ESTIMATES:**

- For the UI design, we are expecting around 2 months of time, after that for Database schema around 3months will be required, the next 3-4 months would be required for building test cases and improving the system.
- Considering the different tasks, at a time, not more than 100 people will be working on the project. So the budget will be around  $9 \times 100 \times 100000$ , i.e 9 crore rupees.
- After the building of the software, around 30 people will be required for its maintenance regularly.