A CASE STUDY

Software Requirements Specification Document

**Online watches store website**

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**1. Introduction**

**1.1 Purpose of this Document**

The purpose of this SRS document is to provide a detailed overview of the website, including its functional and non-functional requirements. This document describes the website's target audience, user interface, and system requirements. It defines how the client, development team, and end-users will interact with the website.

**1.2 Scope of the Development Project**

The goal of this project is to develop a responsive website for a watch store, which includes:

* A **main webpage** (index.html) that showcases watch collections, featured products, and new arrivals.
* A **login/register page** (new1.html) that allows users to authenticate themselves or create a new account.

The website will allow users to:

* Browse watch collections.
* View product details.
* Add products to a shopping cart.
* Log in or register to access additional features (e.g., saving preferences, viewing order history).

The scope of this project is limited to the front-end development of the website, with no backend functionality (e.g., no database integration or payment processing).

**1.3 Definitions, Abbreviations, and Acronyms**

| **Term** | **Definition** |
| --- | --- |
| HTML | Hypertext Markup Language, used for creating web pages. |
| CSS | Cascading Style Sheets, used for styling web pages. |
| JavaScript | A programming language used for adding interactivity to web pages. |
| Responsive Design | A design approach that ensures the website works well on various devices (e.g., desktops, tablets, mobile phones). |
| Glassmorphism | A modern UI design trend that uses translucent, glass-like effects. |

**1.4 References**

* [HTML Documentation](https://developer.mozilla.org/en-US/docs/Web/HTML)
* [CSS Documentation](https://developer.mozilla.org/en-US/docs/Web/CSS)
* [JavaScript Documentation](https://developer.mozilla.org/en-US/docs/Web/JavaScript)

**1.5 Overview**

The remaining sections of this document provide a general description of the website, including its user interface, functional requirements, and constraints. Section 2 provides an overall description of the product, while Section 3 details the specific requirements.

**2. Overall Description**

**2.1 Product Perspective**

The website is a standalone front-end application that consists of two main pages:

1. **Main Webpage (index.html)**: Displays watch collections, featured products, and new arrivals. Users can browse products and add them to a shopping cart.
2. **Login/Register Page (new1.html)**: Allows users to log in or register using a glassmorphic design. Users can toggle between login and registration forms.

The website does not require backend integration for this phase but is designed to be scalable for future backend integration.

**2.2 Product Functions**

The website must perform the following functions:

1. **Main Webpage (index.html)**:
   * Display watch collections, featured products, and new arrivals.
   * Allow users to add products to a shopping cart.
   * Provide navigation links to different sections of the website.
2. **Login/Register Page (new1.html)**:
   * Allow users to log in using their email and password.
   * Allow users to register by providing a username, email, and password.
   * Toggle between login and registration forms dynamically.

**2.3 User Characteristics**

The website is designed for the following types of users:

1. **Visitors**: Users who browse the website without logging in.
2. **Registered Users**: Users who log in to access additional features (e.g., saving preferences, viewing order history).

All users are expected to have basic computer literacy and familiarity with web browsing.

**2.4 General Constraints, Assumptions, and Dependencies**

* The website is a front-end application and does not require backend integration for this phase.
* The website must be responsive and work on various devices (desktops, tablets, mobile phones).
* The website must load within 3 seconds on a standard internet connection.
* The login/register page must use a glassmorphic design for a modern look and feel.

**2.5 Apportioning of Requirements**

The project will be implemented in two phases:

1. **Phase 1**: Development of the main webpage (index.html) and login/register page (new1.html).
2. **Phase 2**: Future integration with a backend system for user authentication and database management.

**3. Specific Requirements**

**3.1 External Interface Requirements**

* **User Interface**: The website must have a modern, responsive design with a glassmorphic effect on the login/register page.
* **Hardware Requirements**: The website must be compatible with standard web browsers (Chrome, Firefox, Safari, Edge).
* **Software Requirements**: The website must be built using HTML, CSS, and JavaScript.

**3.2 Detailed Description of Functional Requirements**

**3.2.1 Functional Requirements for Login/Register Page (new1.html)**

| **Purpose** | **Allow users to log in or register for an account.** |
| --- | --- |
| **Inputs** | - Email/Phone - Password - Username (for registration) - Confirm Password (for registration) |
| **Processing** | - Validate user inputs. - Toggle between login and registration forms dynamically. |
| **Outputs** | - Display error messages for invalid inputs. - Redirect users to the main webpage upon successful login/registration. |

**3.2.2 Functional Requirements for Main Webpage (index.html)**

| **Purpose** | **Display watch collections, featured products, and new arrivals.** |
| --- | --- |
| **Inputs** | - User clicks on navigation links. - User adds products to the shopping cart. |
| **Processing** | - Load product data dynamically. - Update the shopping cart when products are added. |
| **Outputs** | - Display product details. - Show updated shopping cart contents. |

**3.3 Performance Requirements**

* The website must load within 3 seconds on a standard internet connection.
* The login/register page must respond to user inputs within 1 second.

**3.4 Logical Database Requirements**

No database requirements for this phase. Future integration will require a database for user authentication and product management.

**3.5 Quality Attributes**

* **Usability**: The website must be easy to navigate and use for all types of users.
* **Responsiveness**: The website must work well on various devices and screen sizes.
* **Reliability**: The website must handle user inputs without crashing or freezing.

**3.6 Other Requirements**

* The website must be compatible with all major web browsers (Chrome, Firefox, Safari, Edge).