* **Cherry Shop –**

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**1. Introduction**

**1.1 Scope**

The objective of this project is to create and implement an online shopping store website. The “Cherry Shop” online store will be used by anyone looking for the latest trends in fashion. The website will allow users to create and maintain an individual account and search the store database for clothing. For the administrator a back-end application will be created, in order for him to be able to add/remove products and modify prices. The shop will be connected to a relational database containing a list of products and user data.

The website will provide the following functions:

**Front-End functions:**

* User Login
* Browse store and add products to the shopping cart
* Buy product
* Manage payment

**1.2 Definitions, acronyms and abbreviations**

1.3.1 **admin:** The person who is responsible for adding/removing/modifying products in the database. He is also the one that keeps the database updated.

1.3.2 **NA user:** Not authenticated user, is a person that can see the products that the site is selling but he is not able to buy them until he has an account. The not authenticated user will be able to create an account and to place orders.

1.3.3 **Authenticated user:** The authenticated user already has an account. The account is useful for placing orders, keep users details updated. The authenticated user is also able to see his history orders.

1.3.4 **FAQ:** Frequently asked questions.

**1.3 References**

* IEE Std 830-1998 – IEE Recommended Practice for Software Requirements Specifictions;
* <https://www.axure.com/download>
* <http://eapp.software.ucv.ro/wad18wiki/>
* Srs\_example\_2010\_group2.pdf

**1.4 Overview**

The “Cherry Shop” online store is created for customers, to be updated with the latest and the lowest prices of clothes. The web application will use a well organized database, which will be updated frequently by the admin with the latest products.

The “Cherry Shop” software requirement specifications contain the introduction, composed from five subsections: Purpose, Scope, Definitions, abbreviations and acronyms, References and Overview.

Rest of the document is structured as follows:

* Overall description of the project including product perspective, functions, user characteristics, constraints, assumptions and dependencies.
* Specific requirements(functional and non-functional) for the development of software.

**2. Overall description**

This section describes the common factors that affect the product and its requirements. It comprises of the following subsections:

* Product perspective
* Product functions
* User characteristics
* Assumptions and dependencies

**2.1 Product perspective**

The “Cherry Shop” will maintain an actualized site of clothes, with the latest trends and the lowest prices. It is used to satisfy customers requirements and to offer them the best experience with online shopping.

**2.2 Product functions**

**Front-End functions:**

**2.2.1 User Login**

An user that already has an account will be able to log in using his credentials.

**2.2.2 Browse store and add products to the shopping cart**

An authenticated user will have the possibility to search for a certain item using key words. He also can add products to the shopping cart.

**2.2.3 Buy product**

After adding products to its shopping cart, an authenticated user will be able to make a purchase.

**2.2.4 Manage payment**

After deciding if he wants to buy the products in his shopping cart, an authenticated user will be able to make a payment, using his card or choosing the option to pay at delivery.

**Back-End functions:**

**2.2.5 Admin Login**

Admin can log in using his credentials.

**2.2.6 Add/Remove/Edit product**

The admin has the permission to work with the products that will be available in the front-end application. He can either add a new product, to remove an existing one, or to edit the details of a product ( such as price, promotions).

**2.3 User characteristics**

**2.3.1 Admin**

* is the only one allowed to access the database containing the products available on the front-end application; he can add a new product, remove an existing one or edit product details;
  + 1. **NA User**
* is a customer, who is able only to see the products existing on the site and their details and he can also sort the products using sort filters;as a NA user, he can create an account to beneficiate of the qualities of an authenticated user( such as buying, seeing purchase history etc)
  + 1. **Authenticated User**
* as an authenticated user will be able to add products to the shopping cart, and to place an order; he is also able to see his purchase history; for his orders he can pay at delivery or using his card; he has also the possibility to search in for products, and to sort them by colours, by price and by newest and oldest items;

**2.4 Operating Environment**

The software will operate on Windows 7, 8.1 and 10 and also on Android and iOs.

**2.5 Constraints**

* The user should have access to a personal computer with an internet connection;
* The web application is supposed to be available on any browser(Firefox, Chrome, Explorer), but the speed can be slower in function of the chosen browser;

**2.6 Assumptions and dependencies**

* The user shall know how to interact with the system.
* Database admin will be responsible for manipulating with the database. He will manage the fields of the database and make entries in the table.
* Data will be entered into the database by applying queries on database.
* The system may not behave correctly when used internet browsers other than Firefox, Google Chrome or Internet Explorer.
* Rule 1(required) Source code shall only use /\* … \*/ style comments.
* Rule 2(advisory) No identifier name should be reused.
* Rule 3(required) All automatic variables shall have been assigned a value before being used
* Rule 4(advisory) The increment (++) and decrement (--) operators should not be mixed with
* other operators in an expression
* Rule 5(advisory) Write only one declaration per line
* Rule 6(advisory) Use meaningful names for variables
* Rule 7(required) All if … else if constructs shall be terminated with an else clause.
* Rule 8(required) All constants must be declared with capital letters and underline between
* words
* Rule 9(required) The operands of a logical && or || shall be primary-expressions.
* Rule 10(required) There shall be no unreachable code.

**2.7 User Documentation**

Not applicable.

**3. External Interface Requirements**

**3.1 User interfaces**

**Front-End application**

When opening the web application, a first-user should see the home page fulfilled with the categories, code promotions, promotions and the newest collection. At the end of the page a list of FAQ’s and the contact will be available. A first-time user can look through the products, search for items in the site, add them to cart, but he is not allowed to place an order without having an account. On the home page, in the upper-right corner there are two buttons “Log in/Sign up” where the user can either log in, or sign up, and “Shopping Cart” where you can see the products you added to cart.

If the user choose the option of “Log in/Sign up”, it means that he already has an account and he will see the “Log in/ Sign up” page. The “Log in/ Sign up” page will consists of a page, split in two, left side containing the logging in form, and right side the signing up form.

If the user chooses the option of “Shopping Cart”, “Shopping Cart” page will open up and the user will have the possibility to see the items he chose to buy.

On the home-page there are also two options of choosing what products to see, either the ones for “Women”, or the ones for “Men”. When choosing the first option, a “drop down” will show up, in order for the client to see the available categories for women. Same for choosing the second option, but this time the user will see the available categories for men.

Choosing one of the listed categories will redirect the client to a page with products where he has the possibility to filter the items by color, price and by newest and latest products.

**3.2 Hardware Interfaces**

Not applicable.

**3.4 Communication Interfaces**

HTTP will be the communication protocol that our application will use.

**3.7 Non functional Requirements**

**3.7.1 Performance Requirements**

The product shall take initial load time depending on the internet connection strength which also depend on the media-device from which the product is running. The performance shall depend upon hardware components of the client/customer.

**3.7.2 Safety Requirements**

Information transmission should be securely transmitted to the server without any changes in information.

**3.7.3 Security Requirements**

The system shall use secure sockets in all transactions that include any confidential customer information. The system shall confirm all transaction with the customer’s web browser.

**3.7.4 Software Quality Attributes**

Availability: the system is available 24 hours a day;

Portability: a user can log in to the system any time;

Reliability: the system can be used by multiple users concurrently;



