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| VILNIAUS KOLEGIJA  UNIVERSITY OF APPLIED SCIENCES  FACULTY OF ELECTRONICS AND INFORMATICS  https://screenshotscdn.firefoxusercontent.com/images/eaf3f7f3-2952-4801-af5c-4f20e8ae8b88.png | | |
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| **ECOMMERCE WEBSITE PROJECT** | | |
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# USER REQUIREMENTS

List the user requirements, (preliminary system requirements) described in the first report (include changes if made).

Functional Requirements:

1. The system should allow users to view product collections.
2. The system should allow users to add item to shopping cart.
3. The system should have Sign-in window where user can login.
4. The system should allow users to check out and buy an item.
5. The system should allow users to search for the product.
6. The system should allow users to read and write reviews.
7. Admin should be able to view products in the system.
8. Admin should be able to view orders in the system.
9. Admin should be able to update the order.
10. Admin should be able to edit/delete products.
11. Admin should be able to add products into the system.

# SYSTEM REQUIREMENTS

## Functional requirements

Represent the functional requirements in a use-case diagram.

## Diagram Description automatically generated

* • Specify the functional requirement ID,
* • Specify the functional requirement,
* • indicate from which user request it was derived,
* • indicate the use-case it relates to,
* • give priorities to requirements.

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| --- | --- | --- | --- | --- |
| **ID** | **FUNCTIONAL REQUIREMENT** | **USER REQUIREMENT** | **USE-CASE** | **PRIORITY** |
| FR1, FR 7 | View | User, Admin | UC01 | 1 |
| FR2 | Add Item to the Cart | User | UC02 | 2 |
| FR3 | Login | User | UC03 | 3 |
| FR4 | Buy Product | User | UC04 | 4 |
| FR5 | Search Products | User | UC05 | 11 |
| FR6 | Write Reviews | User | UC06 | 10 |
| FR7 | Login | Admin | UC | 5 |
| FR8 | View Orders | Admin | UC07 | 6 |
| FR9 | Update Order | Admin | UC08 | 7 |
| FR10 | Edit/Delete Products | Admin | UC09 | 8 |
| FR11 | Add Products | Admin | UC10 | 9 |

Make sure that the functional requirements are formulated correctly: they are easy to understand, clear, unambiguous, implementable, verifiable.

Describe the use cases.

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| --- | --- |
| **Function** | View |
| **ID** | UC01 |
| **Description** | User/Admin can look at the products |
| **User roles** | User, Admin |
| **Prie-conditions** | There is an internet connection |
| **Inputs** | Click View Products |
| **Outputs** | Product List |
| **Action** | 1. The user enters the website 2. User click Browse Products |
| **Post-conditions** | After clicking View Products the user should be able to see the products. |
| **Side effects** | None. |

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| **Function** | Add Item to the Cart |
| **ID** | UC02 |
| **Description** | Customer can put item into the shopping cart |
| **User roles** | User |
| **Prie-conditions** | There is an internet connection |
| **Inputs** | The product that customer desires. |
| **Outputs** | Desired product in the shopping cart. |
| **Action** | 1. The user enters website.  2. The user click Browse Products.  3. The user click the desired product.  4. In the Product Description user click Add item to the Cart.  5. The product appears in the cart. |
| **Post-conditions** | The product appears in the cart. |
| **Side effects** | None. |

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| **Function** | Login |
| **ID** | UC03 |
| **Description** | Customer can login into the system |
| **User roles** | User |
| **Prie-conditions** | There is an internet connection |
| **Inputs** | Email and Password |
| **Outputs** | User succesfully logins in the system. |
| **Action** | 1. The user enters website.  2. The user click Login.  3. The user click enters their Email and Password.  4. User sees that sees succesfully log in. |
| **Post-conditions** | User is succesfuly log in |
| **Side effects** | None. |

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| **Function** | Buy Product |
| **ID** | UC04 |
| **Description** | Customer can buy the desired product |
| **User roles** | Registered User |
| **Prie-conditions** | There is an internet connection |
| **Inputs** | Address, Bank information. |
| **Outputs** | Confirmation of the order window. |
| **Action** | 1. The user checks out item in the shopping cart.  2. The user enter their customers information.  3. The user click buy.  4. The user gets a window of order confirmation.  5. User‘s Order entered in the database. |
| **Post-conditions** | The user‘s order is entered into database |
| **Side effects** | None. |

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| **Function** | Search Product |
| **ID** | UC05 |
| **Description** | Customer can search for the desired Product |
| **User roles** | User |
| **Prie-conditions** | There is an internet connection |
| **Inputs** | Keyword |
| **Outputs** | List of product of related products |
| **Action** | 1. The user enters website.  2. The user click the search bar.  3. The user enters their keyword.  4. The system shows a products related to the keyword. |
| **Post-conditions** | System shows products related to the keyword |
| **Side effects** | None. |

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| **Function** | Write Reviews |
| **ID** | UC06 |
| **Description** | Customer can leave reviews |
| **User roles** | Registered user |
| **Prie-conditions** | There is an internet connection, The user should be logged in. |
| **Inputs** | Message that user wants to leave, star rating |
| **Outputs** | Message appears in the reviews section. |
| **Action** | 1. User enters the website 2. User clicks Browse products. 3. User click on a chosen product. 4. User click to write review. 5. User leaves message and star rating. 6. The review appears in the product page. |
| **Post-conditions** | Review appears in the review section of the product |
| **Side effects** | None. |

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| **Function** | View Orders |
| **ID** | UC07 |
| **Description** | Admin can view orders |
| **User roles** | Admin |
| **Prie-conditions** | There is an internet connection |
| **Inputs** | Click on orders page |
| **Outputs** | System outputs orders |
| **Action** | 1. Admin enter the website. 2. Admin logs-in 3. Admin clicks on orders 4. All orders appear on the screen |
| **Post-conditions** |  |
| **Side effects** | None. |

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| **Function** | Update Order Status |
| **ID** | UC08 |
| **Description** | Admin can update order status |
| **User roles** | Admin |
| **Prie-conditions** | There is an internet connection |
| **Inputs** | Click on specific order |
| **Outputs** | Show order information |
| **Action** | 1. Admin enter the website. 2. Admin logs-in 3. Admin clicks on orders 4. All orders appear on the screen 5. Click on the order details 6. Click on mark as delivered. |
| **Post-conditions** | The system now shows that the order is delivered. |
| **Side effects** | None. |

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| **Function** | Edit/Delete Product listings |
| **ID** | UC09 |
| **Description** | Admin can edit or delete the product. |
| **User roles** | Admin |
| **Prie-conditions** | There is an internet connection |
| **Inputs** | Click on products page |
| **Outputs** |  |
| **Action** | 1. Admin enter the website. 2. Admin logs-in 3. Admin clicks on products 4. All existing products appear on the page 5. Select the delete or edit button on the product |
| **Post-conditions** | The admin is able to edit or delete the product |
| **Side effects** | None. |

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| **Function** | Add Product |
| **ID** | UC10 |
| **Description** | Admin can add product to the system. |
| **User roles** | Admin |
| **Prie-conditions** | There is an internet connection |
| **Inputs** | Product information : Product name, Description,Quantity,Price. |
| **Outputs** |  |
| **Action** | 1. Admin enter the website. 2. Admin logs-in 3. Admin clicks on products 4. All existing products appear on the page 5. Admin clicks „create product“ 6. Enters product information |
| **Post-conditions** | The admin is able to add product to the database. |
| **Side effects** | None. |

## Non-Functional requirements

List the non-functional requirements of the system (product, organizational and/or external).

1. Application should be written in JavaScript.
2. Application should use React framework.
3. The application should be hosted on Heroku.
4. The application (shop) data should be stored on Firebase or MongoDB.
5. The system should allow users to pay for their goods using Stripe or PayPal.