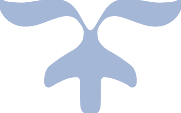


Project PLanning

Semester 3 Individual Project



September 7, 2022

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[Company address]

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# 1. Ideation

## 1.1. Introduction

The purpose of this web shop is to give the user the opportunity to choose from a variety of skin care or haircare products and easily gather information about a certain product of their liking. Furthermore, users can also purchase the product of interest and, by creating an account, leave a review or comment about different products, exhibited on the website.

## 1.2. Functionalities & Roles

On the website you can log as either a user or administrator. The users can look up for more information about product or series, write comments for specific products or buy products. They can as well change their profile information and see their previous orders. The administrator can add/delete series and products and update information about series/products.

# 2. User Stories

|  |  |  |
| --- | --- | --- |
| **ID** | **User Story** | **MoSCoW** |
| **US1** | As an administrator, I want to add new products to a specific series, so that we can display our new products | Must |
| **US2** | As an administrator, I want to delete a specific product, so that I can remove that product because we are not selling it anymore | Must |
| **US3** | As an administrator, I want to delete a specific series and the products in that series, so that I can remove that series because we are not selling products from that series anymore | Must |
| **US4** | As a visitor, I want to be able to see all series, so that I can decide which series products should I look up to | Must |
| **US5** | As a visitor, I want to be able to see the products of a specific series, so that I can decide which products I want to buy | Must |
| **US6** | As a visitor, I want to be able to log in my account, so that I can save my information in my profile | Should |
| **US7** | As a visitor, I want to be able to register, so that I can have an account | Must |
| **US8** | As a visitor, I want to see information about a specific series, so that I can read more information about this series | Must |
| **US9** | As a visitor, I want to see information about a specific product, so that I can understand for what is used | Should |
| **US10** | As a visitor, I want to filter products, so that I can see the newest or cheapest products | Should |
| **US11** | As a user, I want to comment on products, so that other people can see my review on the product | Could |
| **US12** | As a user, I want to be able to add products to my cart, so that I can purchase selected products | Could |

# 

# 3. Acceptance criteria

|  |  |  |
| --- | --- | --- |
| **ID – US1** | **User Story** | **Points: 3** |
| **As an administrator, I want to add new products to a specific series, so that we can display our new products** | | |
| Acceptance criteria:   * Given that the administrator is logged in * When the administrator adds a new product * Then the product is added to the chosen series | | |

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| --- | --- | --- |
| **ID – US2** | **User Story** | **Points: 2** |
| **As an administrator, I want to delete a specific product, so that I can remove that product because we are not selling it anymore** | | |
| Acceptance criteria:   * Given that the administrator is logged in * When the administrator deletes a product * Then administrator can see that the product was deleted | | |

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| --- | --- | --- |
| **ID – US3** | **User Story** | **Points: 2** |
| **As an administrator, I want to delete a specific series and the products in that series, so that I can remove that series because we are not selling products from that series anymore** | | |
| Acceptance criteria:   * Given that the administrator is logged in * When the administrator deletes a series * Then the series and all products from that series is deleted | | |

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| --- | --- | --- |
| **ID – US4** | **User Story** | **Points: 1** |
| **As a visitor, I want to be able to see all series, so that I can decide which series products should I look up to** | | |
| Acceptance criteria:   * Given that the visitor is on the main page * When the visitor navigates through the series page * Then all series are displayed | | |

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| --- | --- | --- |
| **ID – US5** | **User Story** | **Points: 2** |
| **As a visitor, I want to be able to see the products of a specific series, so that I can decide which products I want to buy** | | |
| Acceptance criteria:   * Given that the visitor is on the series page * When the visitor selects a series * Then all products from that series are displayed | | |

|  |  |  |
| --- | --- | --- |
| **ID – US6** | **User Story** | **Points: 3** |
| **As a visitor, I want to be able to log in my account, so that I can see/change my information in my profile** | | |
| Acceptance criteria:   * Given that a visitor has a valid profile account * When the user provides his correct credentials * Then the user is logged in * And can go to the profile page * And see personal information/previous orders | | |

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| **ID – US7** | **User Story** | **Points: 2** |
| **As a visitor, I want to be able to register, so that I can have an account** | | |
| Acceptance criteria:   * Given that a visitor has a valid email * And it’s not used for another account * When the user gives the required information and confirms the registration * Then he will receive an email notifying that he is registered * And logged in his profile | | |

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| --- | --- | --- |
| **ID – US8** | **User Story** | **Points: 2** |
| **As a visitor, I want to see information about a specific series, so that I can read more information about this series** | | |
| Acceptance criteria:   * Given that the visitor is in the series page * When he selects a series * Then he will see more information about the series * And the products from that series | | |

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| --- | --- | --- |
| **ID – US9** | **User Story** | **Points: 2** |
| **As a visitor, I want to see information about a specific product, so that I can understand for what is used** | | |
| Acceptance criteria:   * Given that the visitor is in the product page * When he selects a product * Then he will see more information about the product * And reviews/comments | | |

|  |  |  |
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| **ID – US10** | **User Story** | **Points: 2** |
| **As a visitor, I want to filter products, so that I can see the newest or cheapest products** | | |
| Acceptance criteria:   * Given that the visitor is in the product page * When he selects an option from the filter * Then the products will be filtered by the specified choice | | |

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| --- | --- | --- |
| **ID – US11** | **User Story** | **Points: 3** |
| **As a user, I want to comment on products, so that other people can see my review on the product** | | |
| Acceptance criteria:   * Given that the user is logged in * And in the page of a specific product * When he comments below the product and post it * Then the comment will be visible by anyone | | |

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| --- | --- | --- |
| **ID – US12** | **User Story** | **Points: 5** |
| **As a user, I want to be able to add products to my cart, so that I can purchase selected products** | | |
| Acceptance criteria:   * Given that the user is logged in * And the user has added product/products to the cart * And goes to the cart * When the user checkouts * Then the user is redirected to another page to fulfill the required information * When the user fills in the required information and confirms * Then the order will be completed * And the user will receive an email with information about the order | | |

# 3. Project planning phasing

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| **Sprint** | **Activities** | **Deadline** |
| Sprint 1 | * Project planning (including initial product backlog with user stories, prioritization, estimation, and acceptance criteria.) * First setup of Restful API for your individual track project * CI/CD environment initialization | Fri Sep 16, 2022 11:59pm |
| Sprint 2 | * Design document version 1   + High level architecture -> So how is SOLID guaranteed   + C4 architecture diagrams   + Important design decisions and applied research (Why are you using spring boot, how do you separate concerns? What framework are you using and why?)   + Perhaps UML class diagram * 1st prototype iteration   + demonstrating basic frontend – backend: calling the get operations from the React frontend * Applied research document | Fri Oct 7, 2022 11:59pm |
| Sprint 3 | * Design document version 2   + Back-end architecture setup complete with C4 design, and elaboration on separation of layers, using interfaces, using factory patterns (when applicable), etc. * Quality assurance in Git using SonarQube running, with screenshot for proof. * Test plan including   + User Acceptance Tests   + Test strategy     - What tests will you do and why? (Unit tests, integration tests, possibly other tests?) * 2nd prototype iteration (demonstrating connectivity with backend database, including unit-tests). Show these using screenshots or a movie. * Research document:   + Problem statement or opportunity   + Main question   + Sub questions   + (Multiple) Chosen methods per sub question and reasoning for these choices   + Results   + Conclusion and recommendation | Fri Nov 4, 2022 11:59pm |
| Sprint 4 | * Design document version 3   + Include a diagram of how your CI is setup.   + Use sources in APA style formatting and used Method from DOT framework to backup design decisions and choices made.   + Make sure your architecture diagram matches your backend. * 1st release version (demonstrating authentication/authorization integration)   + Planning: Actual use of Agile user stories -> What will you do, what have you done? Create a movie per finished user story, and share the link via canvas   + Backend set-up in multiple layers using interfaces and dependency injection -> SOLID   + Up-to-date product, sprint backlogs and burn-down charts * SonarQube screenshot/report pre-post -> Quality assurance metrics * UX feedback report (feedback from 2 different users) and resulting improvements on your UI   View Rubric | Fri Nov 25, 2022 11:59pm |
| Sprint 5 | * Final design document * Security report detailing how your application deals (or does not deal) with the OWASP top 10 security risks. * 2nd release version (demonstrating a fully operational CI/CD pipeline) * Up-to-date product and sprint backlogs and burn-down charts. * Websockets implemented in your project. (E.g., chat function) | Fri Dec 16, 2022 11:59pm |
| Sprint 6 | * Final design document * Final release (Docker integration) * Up-to-date product, sprint backlogs and burn-down charts. * A web performance review document, using Google Lighthouse, JMeter or a different measurement tool, as well as a reflection on this performance, indicating possible bottlenecks or applied improvements | Fri Jan 13, 2023 11:59pm |