Project plan

Individual assignment

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Date: 01/01/2021

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| --- | --- | --- | --- |
| Date | Revision history | Revision class | Comments |
| Sprint 1 | 1.0.0 | Major | Initial activity |
| Sprint 2 | 2.0.0 | Minor | No changes were made |
| Sprint 3 | 3.0.0 | Minor | Planning |
| Sprint 4 | 4.0.0 | Major | Updated format-APA style/design/planning/UX feedback/burn-down chart |
| Sprint 5 | 5.0.0 | Major | Creating a new section about the tests – “Test plan” |
| Sprint 6 | 6.0.0 |  |  |

**Description of the idea:**

The idea for my individual assignment is to create a website, which will look like e tennis-club online shop where users will be able to buy tennis equipment and also re-watch one of the most famous matches among tennis lovers.

**User stories(Backlogs):**

1. As a guest user I can:
   1. see the homepage of the website 50 - Estimated: sprint 1 **finished**
      1. So that they can decide if they want to register
      2. Acceptance criteria: the homepage is visible for everyone
   2. just browse through the website 20 - Estimated: sprint 1 **finished**
      1. So that can get some tennis entertainment without being a logged-in user
2. As a logged -in user I want:
   1. to easily find the register/login-page 70 - Estimated: sprint 1 **finished**
      1. So that it will take less time for the register/login-part and more time for using the product
      2. Acceptance criteria: the buttons for register/login are displayed on a visible spot
   2. the website to have an option to login as a user 50 - Estimated: sprint 3 **finished**
      1. So that I can have an access to the tools of the website, such as the other pages or the online store
   3. to be able to save my data as a user 50 - Estimated: sprint 3 **finished**
      1. So that I don’t have to register each time I close and open the website
   4. to see my list of orders – previous and current 50 - Estimated: sprint 5
      1. So that I can see what I ordered and what I added to my list
      2. Acceptance criteria: my product list will be displayed
3. As a logged -in user I can:
   1. check my orders 70 - Estimated: sprint 5
      1. So that I can see what I ordered before
   2. change the list of products in current orders 90 - Estimated: sprint 4 **finished**
      1. So that I will know what I have in the list so far
      2. Acceptance criteria: The list will be reviewed before the payment
   3. contact the service (admin) for help 90 - Estimated: sprint 4 **finished**
      1. So that I will tell them if there is a problem with my account or my order
      2. Acceptance criteria: The contact-page will provide an opportunity for contacting the service
4. As an admin I want:
   1. to see a table of all people that are currently users of the website. 90 - Estimated: sprint 2 **finished**
      1. So that I know who is using the website and how much people are registered
      2. Acceptance criteria: There is going to be a separate page only for the admin to see a table with the users
   2. to have the option to modify/approve the change of certain information about a user 100 - Estimated: sprint 2 **finished**
      1. So that the information about the user will be managed
   3. to see a table of all users’ orders 80 - Estimated: sprint 6
      1. So that I can be in touch with more and less desired products from the online store
      2. Acceptance criteria: The orders of a logged-in user is displayed to them
5. As an admin I can:
   1. add or delete users 100 - Estimated: sprint 2 **finished**
      1. So that the database won’t be messy
   2. add or delete category 100 - Estimated: sprint 4 **finished**
      1. So that there are going to be different categories
   3. add or delete products 100 – Estimated: sprint 3 **finished**
      1. So that the products will be up to date

**Planning:**

Sprint 1:

* Set up a project
* Finish the project plan
* Connect to the database

Sprint 2:

* Update the project plan
* Create the design for the website
* Frontend connected to the backend
* Front and back end CRUD working

Sprint 3:

* Backend set-up in multiple layers using interfaces and dependency injection – SOLID
* Unit testing
* Authorization/Authentication
* Explanation of the CI and Sonarqube setup

Sprint 4:

* Creating a burn-down chart
* UX feedback report
* Include a diagram of the CI setup to the explanation
* Add DOT framework to backup design decisions
* Add ‘send email functionality’
* Finish the functionalities for products and orders

Sprint 5:

* Implement comment-page

1. Estimation:

The tasks are divided from what I will need in the beginning to the end. There is a place, next to each user story, for an estimation on the scale between 1-100 points, taking into account the importance of each user story. Moreover, next to each task the expected-hours-of-work part is positioned, where I say how much time, approximately, I will be needing to finish a certain one of them.

1. Tasks (as a beginning of the project):
   1. Research what database to use - 1h
   2. Choose and then, create database - 2h
   3. Create authorization - 2h
   4. Create authentication - 2h
   5. Create the design for the website (wireframe) - 4h
   6. Create the design in the app - 3days(72h)
   7. Get opinions about the user-friendly interface - during the whole process of making the project
   8. Read about “Spring boot” – 2h
   9. Decide what framework to use – 1h
   10. Create the staring API – 3h
   11. Create get-requests – 40min
   12. Create update-requests – 1h
   13. Create delete-requests – 1h

**Burn-down chart:**

**UX feedback:**

During the process of creating an application, one of the most important things is testing. In my project, not only did I implement unit and integration tests, but also gave the project to non-programmers to test it and give me their feedback.

The “testers” were both women and men, with the intension to receive an appropriate feedback about the UX and if the application is user-friendly to all people.

1st feedback – it was about the design of the products and the person told me to add more features of them, such as details and material of which they are made. – this feedback was taken into consideration and now the product page has more content.

2nd feedback – it was about the navigation bar and the person told me not do it as a sidenavbar, but as the usual one on the top of the page and that it would be better to be dark. – Now the header is dark and on the top of the page.

The heuristic methodologies I used during the process of editing are:

* User control - the user to perceive that they are in control and will allow appropriate control. Yet, the admin is responsible for the whole control.
* Accommodation - the interface will fit the way each user group works and thinks.
* Linguistic Clarity - the interface will communicate as efficiently as possible.
* Aesthetic Integrity - the interface will have an attractive and appropriate design. In this case, the user will find the design user-friendly enough and will be satisfied with what the website offers.
* Accuracy - the interface will be free from errors.
* Suitable Tempo - the interface will operate at a tempo suitable to the user.

**Video of one user story (login/registration):**

<https://drive.google.com/file/d/1AsJUR6LqwjCjUPaYvYkMFmeqTP-snxYM/view?usp=sharing>

**Test plan**

During the process of creating an application, there are usually some errors that may occur and in order for such unpleasant situations not to happen, developers have to make tests of the functionalities of the app.

**What tests:**

Backend (BE): In the BE, where I am using Spring boot, I decided to make unit tests and integrational tests. The unit tests I made for the models, so as to make sure that each of the properties there are working property. For the controllers I made the integration tests, which are used to check the methods that are implemented there, such as “updateUser” or “deleteUser”.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Nº | Acceptance test criteria | Critical  Yes | No | | Expected results | Test Results  Accept | Reject | | Comment |
| 1 | The system must establish a connection | Yes |  | The website is started and the connection between the BE and FE is established properly. | Accept |  | The project will not run into production until this is criteria is met. |
| 2 | The user must be able to login without any difficulty and errors | Yes |  |  | Accept |  | The project will not run into production until this is criteria is met |
| 3 | The admin must be able to do all of the service functionalities | Yes |  | The admin must be able to do the CRUD functions without any error occurring. | Accept |  | This requirement is met, however, there is one CRUD function (for products) that needs to be improved in the FE |

Frontend (FE): In the FE, for which I am using React JS, I used cypress to check if everything works properly. There is a “home-spec” file, where I store all of the cypress tests. This file needs to be run and then, I can see if the tests are successful or not. First of all, I created a test for the connection with the link and if can be visited. Then, tests for the elements, such as buttons and inputs, were made and in the end, the registration and the login were tested.