**Spring Boot + Angular application**

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First of all, I started by reading the assignment and technical requirements. I then created a project using Spring Initializr to add all the required dependencies. After that I modified the application.properties file to set up and connect the database, created a new java class "Pet", used Jpa annotations and created the Pet Repository.

I also created an exception class (to handle cases when a resource is not found, with a 404 error response) and a Pet Controller.

I have created a new Angular frontend project. Then I took some time to explore the Angular project structure. I started by creating a Pet class and a pet-list component. Then I included html file that you gave, modifying it a bit in order to use the data from the database.

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After that I started working with HttpClient and added routes so that I can add new pets in the future. To do this, I slightly modified the Pet Controller: added a createPet method, also created a new component in Angular: create-pet. After that I added the html file you gave, again modifying it a bit.

I change the Pet Controller again, this time I add a method: getPetById so that in the future pets can be edited. I also added the updatePet method for this, I also created a new Angular update-pet component and added a new route. To edit pets, I took the same html file as for creating them, changed it a bit and made it so that the input and selection fields already had information about the pet they want to edit.

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The basics are done, but I missed that it was necessary to use H2 database and liquibase. I also needed to work on getting the data in the select boxes to be taken from the database. I changed the database to H2, and connected liquibase, as a script, I create three pets in the database, as well as all the necessary data for the selection fields: type of pet, its fur color and country of origin. For fur color, pet type and country of origin, I created a java class, as well as repository and controller. A little work in Angular and everything worked.

**Issues**

At some point I could not connect to my database, I searched for the reason for a long time and eventually found a solution on the Internet, added the WebMvcConfig class to the project. This code enables Cross-Origin Resource Sharing (CORS) for the web application, allowing cross-origin requests from a specific origin with any HTTP method and header, and allowing cookies in the request.

Also faced a rather silly problem that the select fields did not show "Choose...", but there was just an empty field, I searched for a very long time for the reason, but in the end it turned out that I just needed to give these fields initial values. The solution to the problem turned out to be very easy, but I spent quite a lot of time to find it.

Изображение выглядит как текст

Автоматически созданное описание

**Application Launch**

To run the application, you need to open the Spring Boot project (I used Intellij IDEA) and run the main class, then you need to open the Angular project (I used Visual Studio Code), go to the project directory (‘cd .\angular-frontend\’) and write one command in terminal: ‘ng serve’, after that you are done, you can navigate to ‘localhost:4200’.