Qanda

Project documentation

This is the documentation for the different parts of the system that is Qanda. The setup process for running the program can be found in the README.md in the repository. This document serves as a visual guide to the communication between the systems. It will display graphs for the different parts of the total project.

Structure	2
Frontend	2
Components	2
Store	2
Backend	2
Composition	2
Endpoints	2
Flowcharts	3
Frontend	3
Backend	3
Diagrams	4
Frontend	4
Services	4
Store	5
DisplayPage	6
CreatePage	6
QuizzesPage	7
Backend	8
Database	11
Model EER diagram	1 1

Structure

Frontend

Components

The project utilizes both components and views. Two of the most important functionalities, *creating quiz* and *displaying quiz* are structured with the same component principle. The quiz creator tool lets the user pick between three different question types. Each of these are separate components. This allows for reusability. This usability is shown in the landingpage of the website with the advertisement for using a flipcard. After a quiz is created, the quizreader also has three separate components that parse the information based on what type of question it is. This allowed for great flexibility for our user to mix questions as they please within the quizzes.

Store

The website utilizes Store for inputs, and allows the user to navigate around the site without losing their quizzes. This creates a seamless experience that always keeps the users quizzes as long as they wish for it to be there, or until an eventual expiry.

Backend

Composition

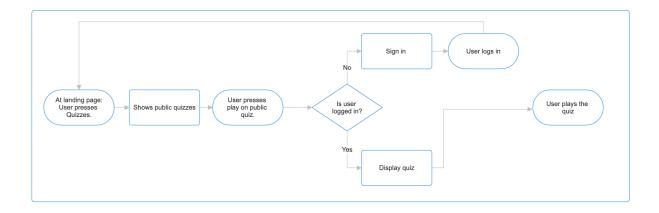
Our backend consists of config, controller, dto, exception, mapper, model, repository, security, service and startup. This separation of responsibilities creates a modular and adaptable backend with possibilities for many further implementations.

Endpoints

To view the available endpoints, it is recommended to look within the Swagger. Here you can see all the different endpoints, with detailed information about how they are used and how they are formatted. The endpoints provide a very effective way for the frontend to collect its needed information.

Flowcharts

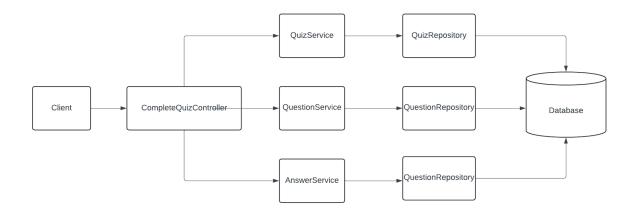
Frontend



The principle for the website is to let the available content so that they are intized with playing the quizzes, and then when they press play they are prompted to log in or create a user. This allows for an accessible experience while still being able to record a user's attempts.

Backend

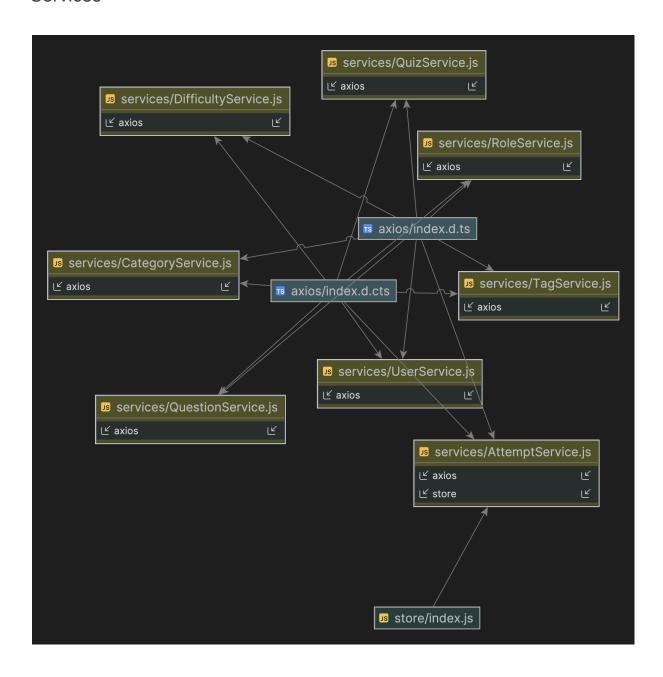
FlowChart for CompleteQuiz:



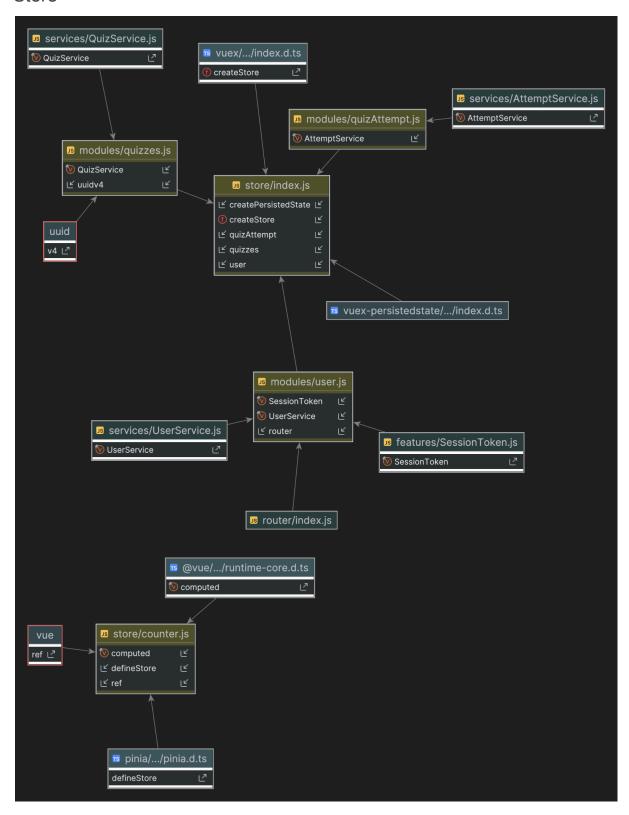
Diagrams

Frontend

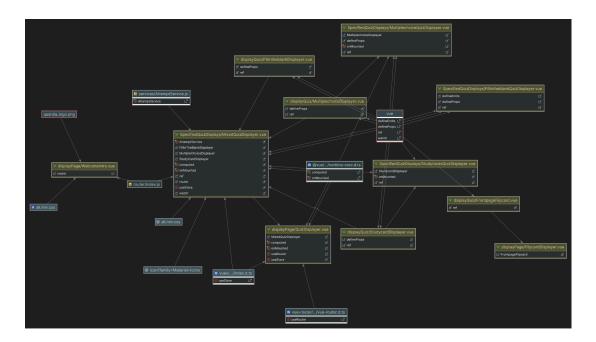
Services



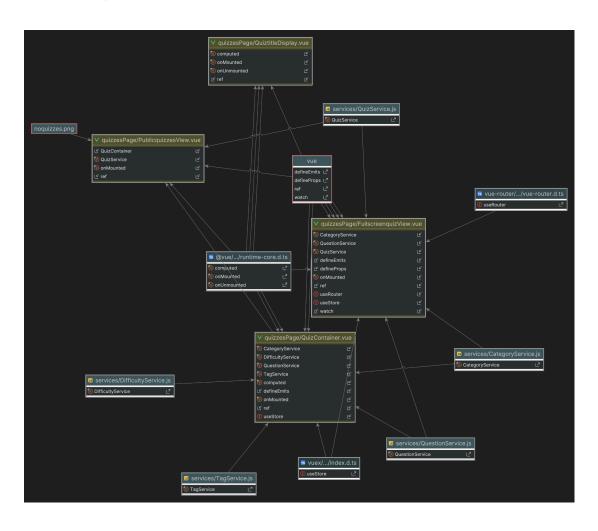
Store



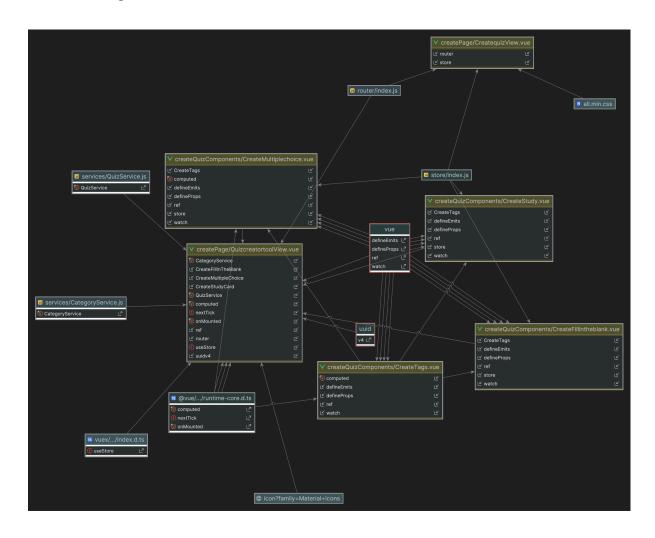
DisplayPage



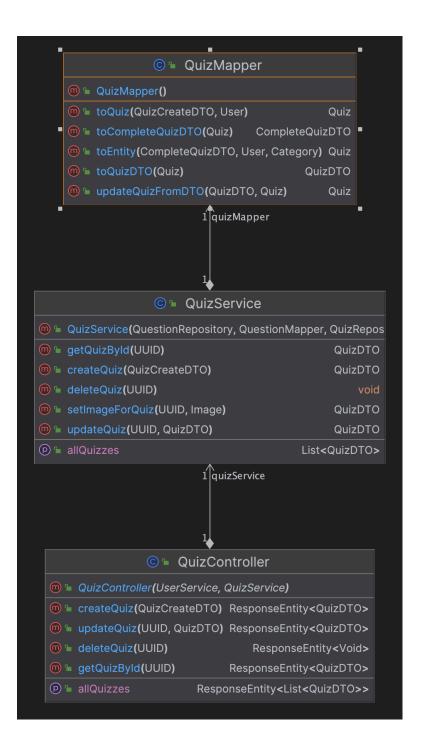
CreatePage

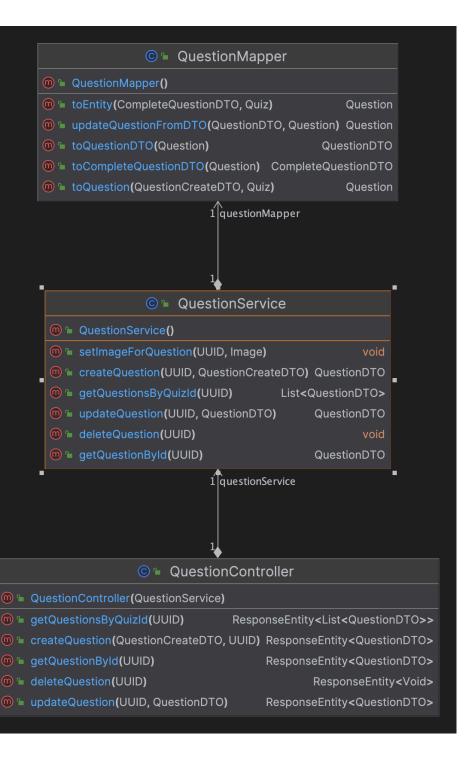


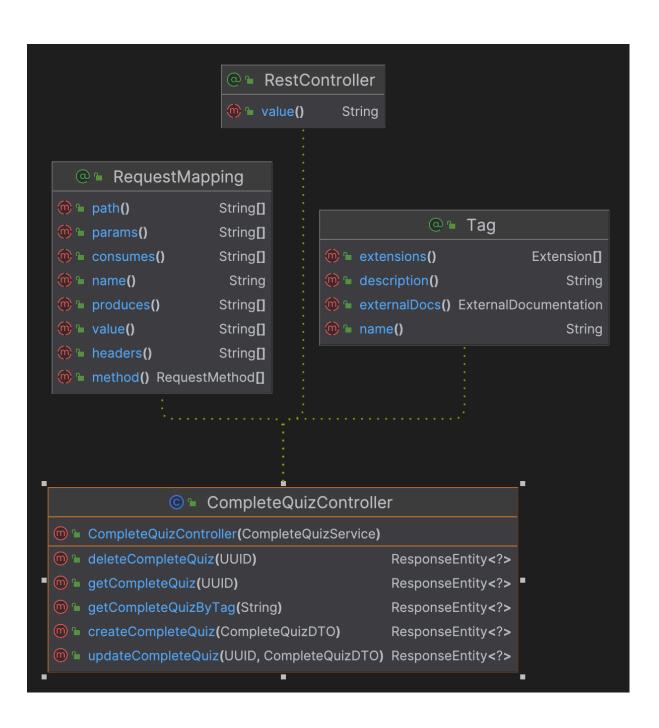
QuizzesPage



Backend







Database

Model EER diagram

This diagram displays the communication between the different tables within the database.

