

DS4102 Web development 2

Account August 2022

Various information

- Scope and complexity affect the grade.
- The case theme with associated classes, files etc. must be followed! Generic solutions that do not follow the case theme points are not assigned as it will be perceived as not being its own code.
- Do not implement "log in" as it may prevent the sensors from running the solution and assessing properly

How to deliver:

- 1 zipped folder is uploaded containing the solution.

Recommendations

It is recommended to take plenty of time to plan what you are going to create before you start coding. This means that you don't have to recode things later. For example, use a text document to outline how the database should look. How the database/Model classes are created controls to a large extent how the work in both frontend and backend will be.

To the full-stack developers with us!

Cheers.

We have two assignments that need to be completed shortly. I need you to choose one of the two assignments mentioned below. Both assignments involve creating full-stack solutions in Vue and .NET/C# Web Api*.

** You are not expected to use technologies other than what you have learned in the course.*

Alternative 1 case: BemanningAS

A staffing agency that works specifically with the IT industry needs a solution where you can see which consultants are available. In this solution, you must be able to see, save, delete and edit consultants. There should be 1 table in the database called Consultant. A Consultant must have an Id, Name, Image and Skills (Skills is a text that describes which skills, technologies etc. the consultant has mastered).

Option 2 case: MyPokemon

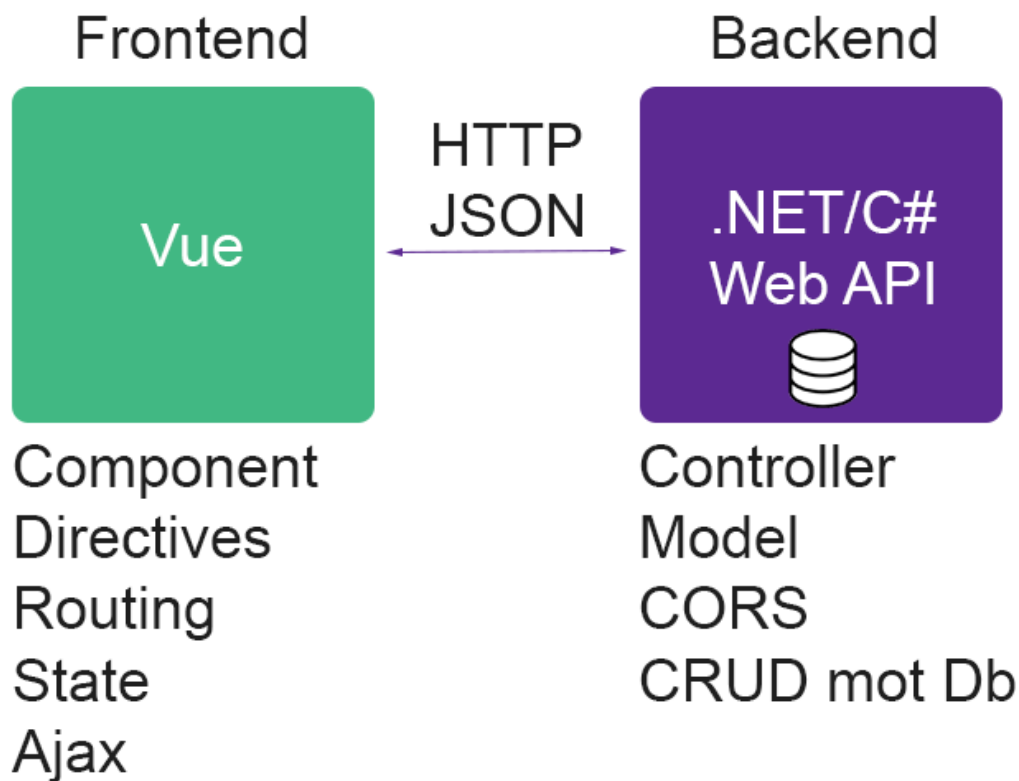
In this option, the user should be able to see, save, delete and edit Pokemons. There should only be 1 table in the database and it should be called Pokemon. A Pokemon must have an Id, Name, Image and Description.

Etc

CEO

Oslo, 01.08.22

Overview of technologies / techniques



- **Frontend: Vue 3 (Composition Api) project**
 - o Components (List-Item, props, etc.)
 - o Use of directives and JavaScript code for functionality
 - o Routing
 - o By state here is meant the use of reactive values such as mustaches, ref, reactive etc. (not Vuex etc.)
 - o CSS framework: Bootstrap or other that you learned in the course.
 - **For students who had Web development 2 2019/2021:** it may be that Vuetify does not work in 2022. Then you can choose between Bootstrap or pure CSS. If necessary, write a comment about this in a separate comment file.
 - o Axios (GET, POST, PUT, DELETE)
 - o Modularization and structuring with service modules (own service files)
- **Backend: .NET/C# Web API**
 - o Model classes
 - o Controllers with CRUD methods against database
 - o Database
 - o wwwroot
 - o CORS configuration
 - o Image upload

Examiner's guide (for students and examiners)

The solution uses techniques in both the backend and frontend with Vue and .NET/C# Web API.

Vue and .NET/C# originally count roughly the same, but with somewhat more emphasis on the front end since there will be more variety and functionality in the Vue part.

Theme	Percentage statement	Comment
Web API		
Controllers with CRUD methods, Image upload, wwwroot	About. 30	
Model classes, Database, Configuration, etc.	About. 15	
View 3		
Components, functions, props, directives and reactivity	About. 30	Use of List and Item components is an important point.
CSS Framework / CSS	About. 15	The essential is the use of the responsive grid system, and basic components as for for example buttons, cards, text fields etc.
The routing system	About. 10	
Other		
Code cleanliness and structure	About. 10	Naming of components, folder structure. Use of indent and space the code. Commenting on selected important/complex codes.