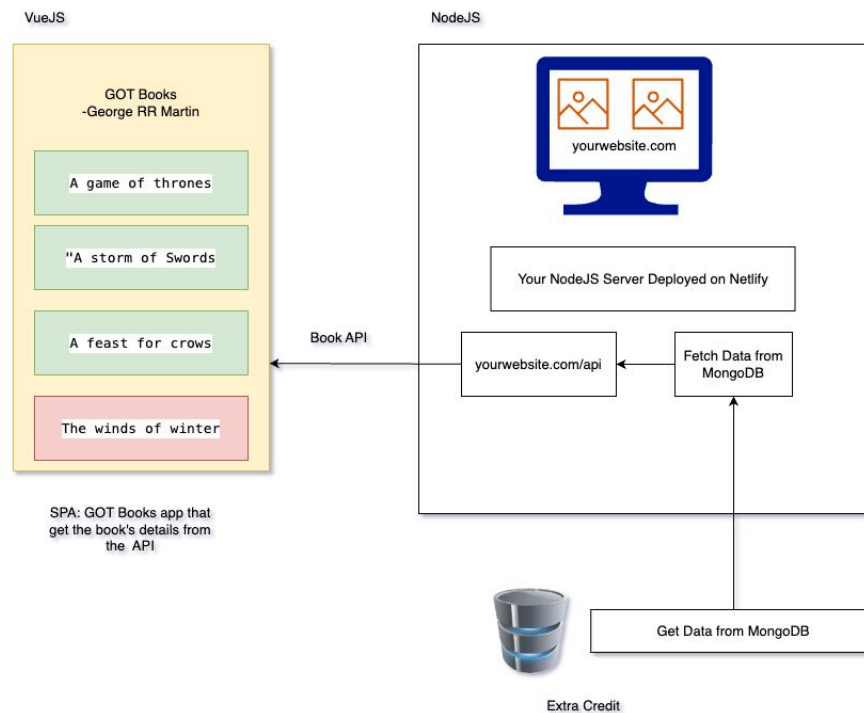# Web Database Final Project - Project Brief

The objective of this project is to test your knowledge in both Frontend and Backend. In this project, you are going to create a frontend application using VueJS and set up a server using NodeJS.

An abstract view of your final project:

There are two major deliverable components in your project.

Frontend: You need to create a frontend application using Vue, HTML5/CSS3 (Flex or Grid), and JavaScript. The features of the application should be as follows:

1. It should be a single-page application
2. An application must be developed using Vue
3. The application should be broken down into at least more than two components (excluding the root component)
4. The application must have data passing from one component to its child component.
5. The data must be coming from your Node Server deployed in Netlify (or any other platform you would like to host your Node server. But, must NOT be IN YOUR LOCALHOST)
6. If I run your Vue application on my laptop, it should access data from your server without any errors.

7.   Your application must have more than 4 types of data, and your application should be fetching more than 5 data. (Refer to class exercise code)

* Example:

\>\> My crypto app should have 5 types of data: Crypto Name, Short Code, Price, Date of Price, URL to White Paper, etc

\>\> My crypto app should display at least 5 different types of coins

Backend: You need to set up a server using **NodeJS** and deploy it to Netlify

1.   Your server homepage must be your portfolio website (one that you build on your assignment). It means that when you open your [https://yoururl.Netlify.com/Links to an external site.](https://yoururl.Netlify.com/) it should show your website (one that you created in the assignment).

2.   The JSON data must be in **youwebsite.com/api**. And your frontend application should be fetching data from this URL.

3.   Your public folder should contain your portfolio website + JSON File.

Please feel free to use tutorials. (There is a high possibility you might face an error with access control, for this you need to search on how to resolve this issue. Hint: you might have to modify your header)

What are your deliverables?

1. Wireframe for your front-end application. (only for the SPA Vue application)
2. Your frontend Vue Application
3. Your NodeJS Server hosting your portfolio website and the API
4. Your Frontend and Backend codes on GitHub. Please create two separate repositories.

How to submit your work?

1. Please attach your wireframe, the link to your Node Server, and your GitHub link in a pdf file: **<yourname>.pdf**
2. You need to put your Vue application code in one folder: **<yourname>_vue**

\>\> Your application must run when I run it using **npm run serve**

3. You need to put your NodeJS code in another folder **<yourname>_node**

\>\> Your application must run when I run it using **npm run dev**

Assuming you are using the same dependencies that we covered in the class. If you are using additional dependencies, then please let me know. *(So, how would you let me know if you have any dependencies?*

1. You need to zip [PDF, Vue, and Node] folders into one final zip file **<yourname>.zip.**
2. And you will be submitting this zip file in the canvas.

Extra Credit

You can use MongoDB to host your data in the database. You can retrieve these data via Node and then host that data in the JSON format on your server.