**Design document**

1. Project description/scope

The goal of the project is a fully functional webshop application which consist of a ReactJS frontend and a Spring boot API with a MySql database. The application should allow a user to create an account, sign in with that account as either developer, who can upload and update games or a customer, who can browse and purchase games.

1. **Fronted**
2. Criteria

|  |  |  |  |
| --- | --- | --- | --- |
|  | Angular | React | Vue |
| Virtual dom |  | x |  |
| Support Community | x | x |  |
| Prior experience | - | - | - |
| Size |  | x |  |
| Learning Curve |  | x | x |
| stable | x | x | x |
| Documentation | x | x | x |
| coding speed |  | x | x |

1. Explanation of choice

* ReactJs is easy to use library and can also achieve the result that is required. It is recommended for people with little to no experience with JS. I chose this library because I wanted to get on track with the frontend as quickly as possible.

1. Pros & cons of ReactJS

+ One of the pros of ReactJS is that it has a strong community behind it. This is important for because I can easily find required information and access resources.

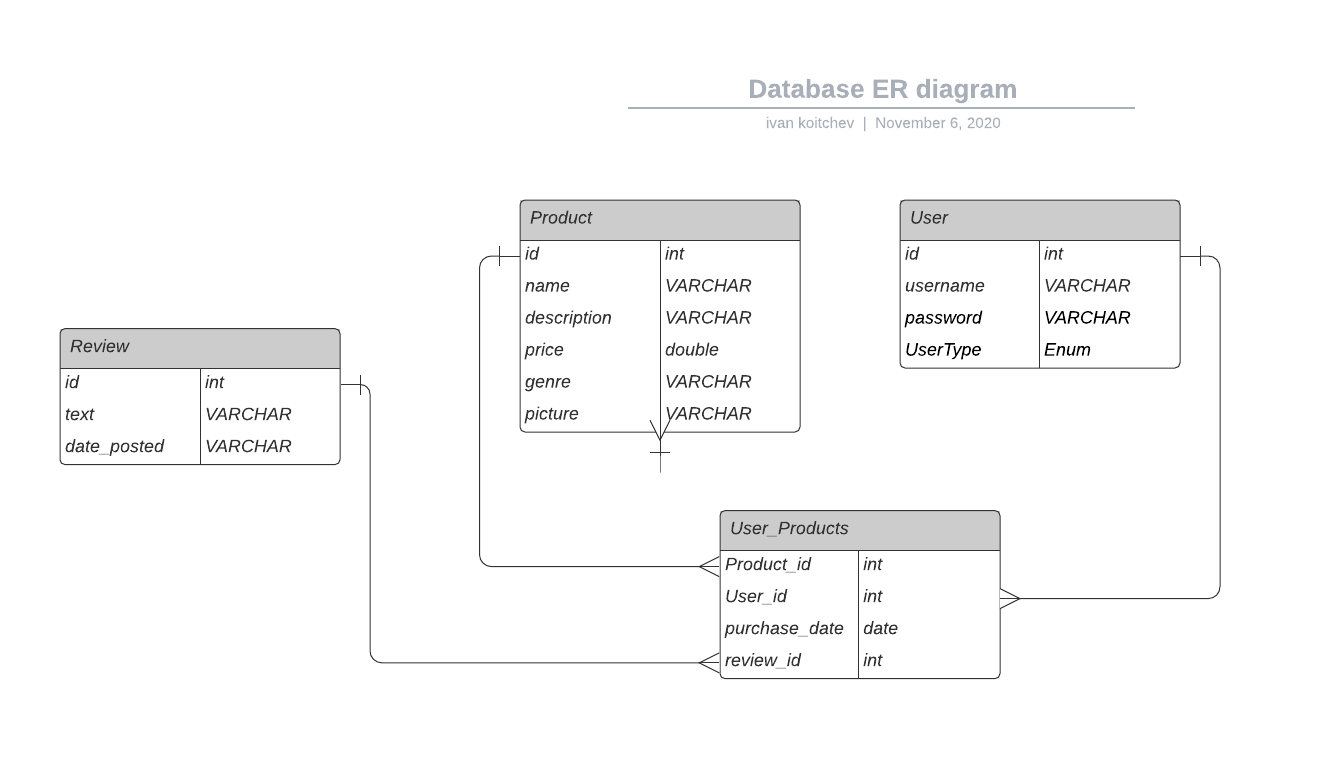
+ ReactJS is also open source, which means it is constantly developing and is open to the community.

* On the other hand the usage of JSX and HTML in the JavaScript code is considered a disadvantage, because it leads to less readable code.
* Compared to a framework like AngularJS, ReactJS often times require downloading additional libraries because the desired functionality is not available in the library itself.

1. **Backend**
2. Justification

I chose to use Spring boot for the development of my API because it is a powerful framework which is excellent for creating a backend service. It also has a strong community behind it which means it is easy to find help if needed during the process of implementation.

1. **ER Design**

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