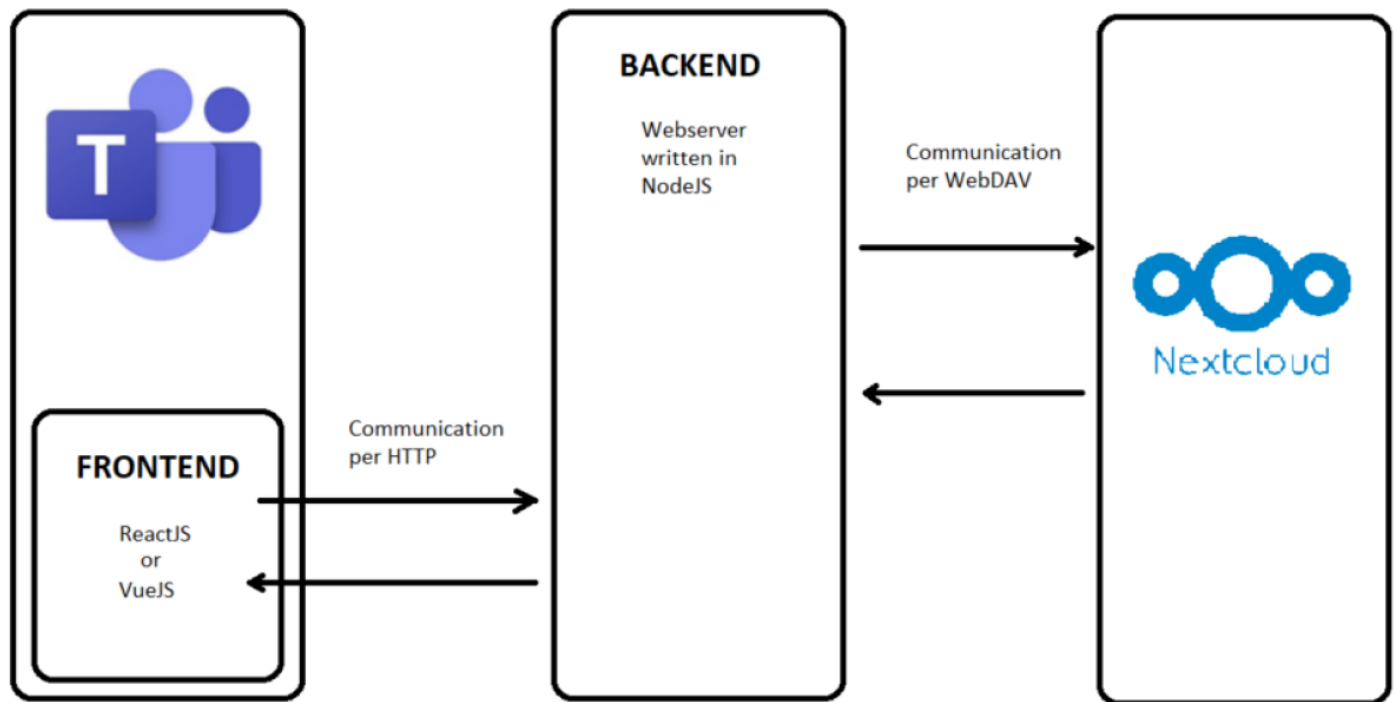
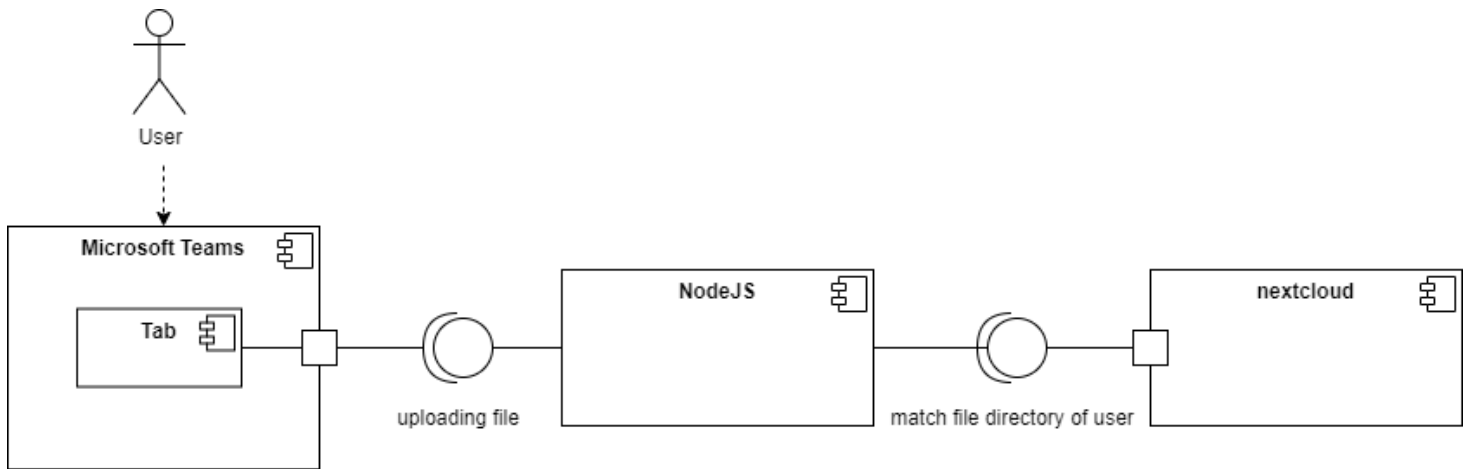


Software architecture

Overview of the general software architecture



Runtime component diagram:



Summary of the underlying technology stack:

- For the Frontend we will choose between React and Vue.
- Our Backend is based on NodeJS.
- For the interaction within Microsoft Teams, we use the teams-js SDK from Microsoft Teams.
- For the interaction with nextcloud we will use the WebDAV protocol.

Textual explanation of the diagrams and choices:

- Because we are planning a Single Page Application React/Vue is very suitable.
- For our backend we choose NodeJs because it is popular and performant. Additionally it comes in handy so that we can use Javascript for the whole stack.
- Both the Microsoft SDK and the WebDAV are mandatory for this kind of project.
- Runtime component diagram: The user uses our Microsoft Teams Tab to upload his file which is supported in the backend by NodeJS to match the file to the corresponding file directory of the user in nextcloud