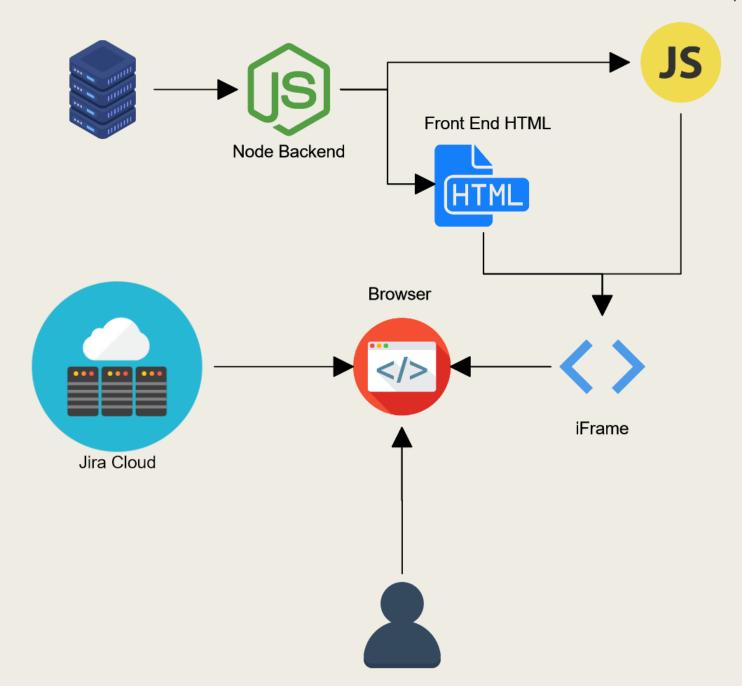
JIRA CLOUD

Development Loop

Architecture

- The entry point for our application is an iframe.
- We need to generate content to provide it to the iFrame
- Jira cloud would render our application
- Do I have to stick to Node Backend?
- Why Node (Javascript)?



Requirements

- Atlassian account
- Jira Cloud instance (https://www.atlassian.com/try/cloud/signup)
- Node.js and npm installation (https://nodejs.org/en/)
- Optional NVM node version manager

ACE

 Boilerplate Generator: atlas-connect CLI tool (https://www.npmjs.com/package/atlas-connect)

npm i -g atlas-connect

Atlassian Connect Express is a toolkit developed by Atlassian (https://www.npmjs.com/package/atlassian-connect-express)

Connect App Descriptor

- <root>/atlassian-connect.json
- In the server world it is the *atlassian-plugin.xml*
- Metadata. The file describes the application: name, version, its entry points, structure, access levels etc.

credentials.json

- As soon as this file is available in the root directory the application will try to install the application automatically.
- Should the credentials.json be not there the application will attempt to retrieve necessary data from config.json. No auto install will be triggered. You would have to install the application manually.

```
"hosts": {
    "https://my-cloud-instance.atlassian.net": {
        "product": "jira",
        "username": "my.fancy@email.com",
        "password": "token"
        }
    }
}
```

■ Generate access token for the application: https://id.atlassian.com/manage-profile/security/apitokens

Back End – Front End

- Back End express + ace middleware
- Front End either static contents (HTML) or serving JS applications (vanilla, react, view etc.)
- Express takes care of handling rest entry points of your application
- ACE provides the middleware (e.g. authentication)

Jira Expressions?

- It's domain specific language, which can be used to evaluate custom code (expressions) in the context of Jira entities. (issues, users etc.) https://developer.atlassian.com/cloud/jira/platform/jira-expressions/
- Example. An expression to retrieve the reporters display name of a given issue would be: issue.reporter.displayName
- Expressions are "POST"ed to the respective entry point and cloud instance responds with a result. By providing the relevant query parametes one gets also the information about the complexity of a response. Multiple expressions can be evaluated in one request.

Code to download

https://github.com/ayessipovskiy/ace-fullstack