



JavaScript framework selection kick-off

Invenio Developer Forum (2017-11-20)

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Current situation

- DevForum May 8th 2017: RequireJS -> Webpack
 - ES6, Bundling, Import, CSS, de-facto standard.
- JS Modules:
 - Search, Deposit, Files, CSL, Chart, Editor, Theme, Previewer
- Use cases:
 - Search, forms, file upload, small/medium apps
- Services:
 - CDS Videos, CAP, INSPIRE, COD, Zenodo
- Problem:
 - Angular v1 two-way data binding are creating hard to debug code.

Goal

- Decide on a JavaScript framework and common application patterns for Invenio.

Roadmap & selection process

- Today: Kick-off
- End-November: Requirements and candidates defined.
- December: Build prototypes in candidate frameworks.
- Early January: Choose

Artefacts

- Prioritised requirements.
- Prototype candidate list (frameworks, design patterns)
- Guideline for what and how to test.

Who decides

- Prioritisation of requirements
 - Proposal by architects/service coordinators.
- Prototype candidate
 - Anyone who signs up.
- Final decision
 - Proposal by architects/service coordinators.

Ideas for requirements

- Real world prototype.
- Simplicity/Learning curve + Long-Term Support
- I18N
- Customisability (templates)
- Exit strategy: architecture
- Application state management: RxJS, Redux, Vuex.
- Configuration injection
- Single/Multi Page App + SEO
- Invenio integration