

# JavaScript Components

# General information

- Single Page Application (SPA)
- Backbone.js
- Chaplin.js
- RequireJS
- Underscore.js
- jQuery
- Minification
- Inline JS is prohibited!!!

# Public assets

- Resources/public
  - css
  - js
  - images
  - lib
  - templates
- bin/console assets:install --symlink
- bin/console oro:requirejs:build

*Demonstration >>>*

# RequireJS

- Resources/config/requirejs.yml
- Specification of JS modules
- Aliases / map
- Dependencies
- Application modules

<https://github.com/oroinc/platform/blob/3.1/src/Oro/Bundle/UIBundle/Resources/config/requirejs.yml>

<https://github.com/oroinc/platform/blob/3.1/src/Oro/Bundle/UserBundle/Resources/config/requirejs.yml>

# What is JS component

- Encapsulates part of JS functionality
- Assigned to HTML tag
- Specifies required modules (dependencies)
- `oroui/js/app/components/base/component`
- `initialize` (constructor)
- `dispose` (destructor)

<https://github.com/oroinc/platform/blob/3.1/src/Oro/Bundle/UIBundle/Resources/public/js/app/components/jquery-widget-component.js>

# How to add JS component

- Create new JS module
  - Resources/public/js/app/components
- Register it at Resources/config/requirejs.yml
- Attach to HTML element
  - data-page-component-module
  - data-page-component-options

# Initialization

- options.\_sourceElement
- Parse options
- Add events handlers
- Other initialization actions

<https://github.com/oroinc/platform/blob/3.1/src/Oro/Bundle/UIBundle/Resources/public/js/app/components/hidden-redirect-component.js#L42-L82>

# Disposal

- Remove event handlers
- Other disposal actions
- Call of parent disposal

<https://github.com/oroinc/platform/blob/3.1/src/Oro/Bundle/UIBundle/Resources/public/js/app/components/hidden-redirect-component.js#L141-L149>



# Example

- Hidden redirect during the entity pagination
- JS debugging

*Demonstration >>>*