

Redmine - Patch #42515

Introduce Stimulus and reimplement partial quote feature

2025-04-04 20:00 - Katsuya HIDAKA

Status: New	Start date:
Priority: Normal	Due date:
Assignee:	% Done: 0%
Category:	Estimated time: 0.00 hour
Target version:	

Description

This patch introduces [Stimulus](#), a JavaScript framework within the Rails ecosystem, and reimplements the partial quote feature added in [#41294](#) using Stimulus.

Why introduce Stimulus?

Here's why I propose introducing Stimulus:

- The current frontend JavaScript is becoming too complex and harder to develop. application.js is getting large, and everything operates in the global scope.
- It will make it easier to begin the migration from jQuery UI, which is no longer being developed. Stimulus helps create UI components in vanilla Rails, and many third-party components are also available.
- Stimulus works well with Turbo, which is a strong candidate to replace the deprecated rails-ujs, making future adoption smoother.
- Introducing a modern environment can revitalize Redmine development and simply make development more enjoyable.

As a next step after introducing Stimulus, I plan to migrate the tooltip implementation to Stimulus to further reduce the dependency on jQuery UI.

Implementation

- importmap-rails was also introduced to install Stimulus and its necessary libraries.
- bin/rails stimulus:install creates app/javascript/application.js by default. To avoid conflicts with the existing app/assets/application.js, I renamed the new file to main.js.
- turndown, which is used for the partial quote feature, is now also installed via importmap-rails.
- I confirmed that CI builds pass and all system tests are successful.

Related issues:

Related to Redmine - Feature #42510: Evaluate the option to add Stimulus as a...	New
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History

#1 - 2025-04-05 05:19 - Katsuya HIDAKA

Implementation

- bin/rails stimulus:install creates app/javascript/application.js by default. To avoid conflicts with the existing app/assets/application.js, I renamed the new file to main.js.

Regarding the above, similar to the patch in [#42510](#), it might be better to rename the existing app/assets/application.js to application-legacy.js. This could also serve as an explicit message to encourage migration to implementations using Stimulus or migration from app/assets/application.js.

#2 - 2025-04-05 07:54 - Katsuya HIDAKA

- File 0004-Add-license-headers-to-added-JavaScript-files.patch added

- File 0003-Rename-app-assets-application.js-to-application-legacy.js-keeping-app-javascript-application.js-default.patch added

I have added two patch files:

- 0003: Rename app/assets/application.js to application-legacy.js (keeping app/javascript/application.js default)
- 0004: Add license headers to added JavaScript files

#3 - 2025-04-06 19:41 - Marius BĂLTEANU

- Related to Feature #42510: Evaluate the option to add Stimulus as a Javascript framework added

#4 - 2025-04-06 20:21 - Marius BĂLTEANU

Thanks for your work and for the patches.

Let's discuss the integration of Stimulus in [#42510](#) and then we can get back to this.

Files

0001-Introduce-Stimulus-to-facilitate-JavaScript-modernization-and-provide-a-new-development-approach.patch	3.87 KB	2025-04-04	Katsuya HIDAHA
0002-Reimplement-partial-quote-feature-using-Stimulus.patch	38 KB	2025-04-04	Katsuya HIDAHA
0004-Add-license-headers-to-added-JavaScript-files.patch	2.49 KB	2025-04-05	Katsuya HIDAHA
0003-Rename-app-assets-application.js-to-application-legacy.js-keeping-app-asset/javascript/application.js-default.patch	3.42 KB	2025-04-05	Katsuya HIDAHA