

Redmine - Feature #42688

Run system tests on GitHub CI

2025-05-10 16:24 - Katsuya HIDAKA

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

Description

This patch enables Redmine's system tests to run on GitHub CI.

- Uses Chrome and ChromeDriver pre-installed on GitHub Actions' Ubuntu images.
- Enables continue-on-error for a period, so that system test failures do not cause the entire test suite to fail.
- Confirmed [all tests pass](#) with patches [#42422](#) and [#42687](#) applied.

Details

Use Chrome/ChromeDriver pre-installed on Ubuntu images

GitHub Actions' Ubuntu images come with Chrome and ChromeDriver pre-installed, and these seem to be generally updated to the latest stable versions.

- [Ubuntu2404-Readme.md: Browsers and Drivers](#)
- [Pull request: Ubuntu 24.04 \(20250504\) Image Update](#)

I believe this is the best option unless there's a need to test against specific or multiple versions of Chrome.

I considered the following alternative methods, but still believe this approach is the best:

- **Using selenium/standalone-chrome image as a service container:** As mentioned in [Mounting volumes to retrieve downloaded files](#) , correctly enabling download functionality requires setting up a directory with appropriate permissions *before* the container starts. However, when using service containers, it's not possible to perform operations before the container starts.
- **Directly running npx @puppeteer/browsers install to set up Chrome (Chrome for testing) and ChromeDriver:** This requires additional setup, such as adding the installed Chrome and ChromeDriver paths to the system's PATH.
- **Installing with apt install google-chrome-stable:** This requires additional configuration for apt install, such as registering package repositories.

Enable continue-on-error

Once patches [#42422](#) and [#42687](#) are applied, system tests should be reasonably stable, but may still occasionally fail. Therefore, for a period, continue-on-error will be enabled so that system test failures do not cause the entire test suite to fail.

System test failures can be identified by errors outputted on the job summary page as shown below. Screenshots of failures can also be downloaded.

job-summary-with-system-test-failure.png

**Total test time increases by about 2 minutes**

Running system tests will increase the total test time by approximately 2 minutes. I plan to propose test parallelization to address this in the future.

**Files**

job-summary-with-system-test-failure.png	112 KB	2025-05-10	Katsuya HIDAHA
0001-Run-system-tests-on-GitHub-CI.patch	1.42 KB	2025-05-10	Katsuya HIDAHA