ManageIQ Bot

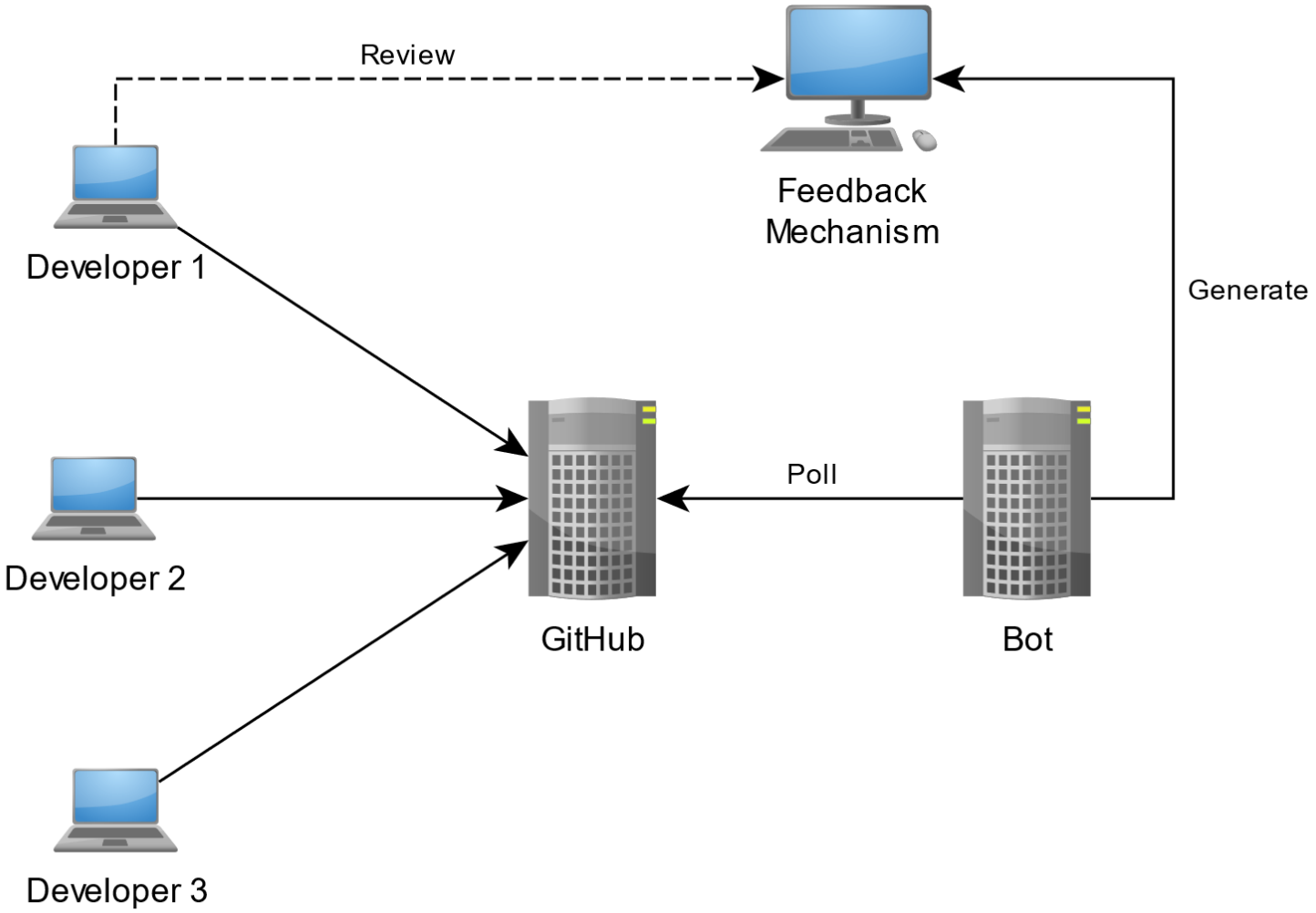
Adrián Tóth

redhat.

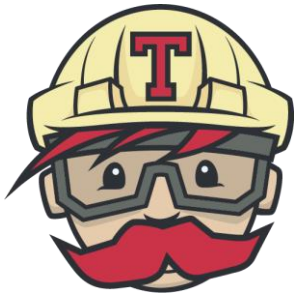
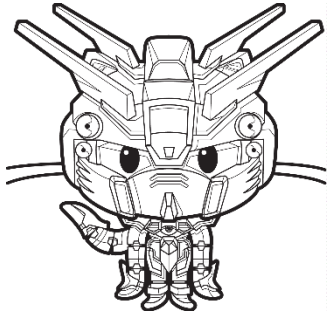
Introduction

- How does the bot work?
- What are the building elements of the bot?
- Which enhancements were proposed and added?

Workflow


Review
Feedback
Mechanism
Developer 1
Generate
Developer 2
Poll
GitHub
Bot
Developer 3

Fundamentals

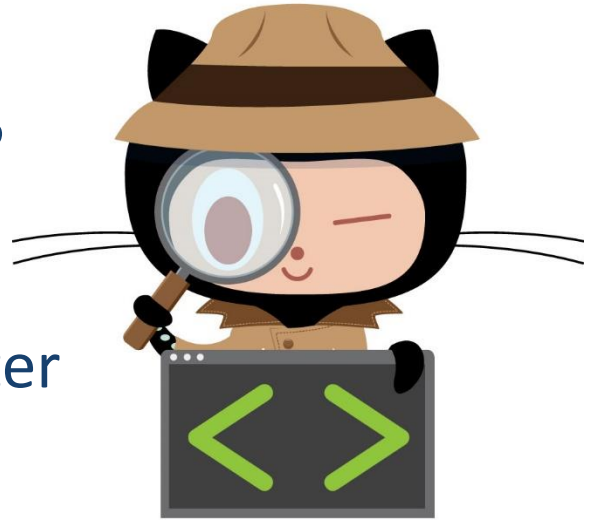
- Sidekiq
- Travis CI 
- Octokit 
- Linters

MiqBot & Sidekiq

- Workers
  - nonrecurring
  - recurring
- Types
  - miq_bot
  - miq_bot_glacial
- A worker launches a new worker

```
08:29:52 sidekiq.1         | 2018-05-09T06:29:52.566Z 10606 TID-gs5h3jggk INFO: Starting processing, hit Ctrl-C to stop
08:30:00 sidekiq_glacial.1 | 2018-05-09T06:30:00.698Z 10608 TID-go2qms2u0 INFO: [Sidetiq] Enqueue: BatchJobMonitor (at: 1525847460.0) (last: 1525847400.0)
08:30:00 sidekiq_glacial.1 | 2018-05-09T06:30:00.710Z 10608 TID-own8v8s88 INFO: [Sidetiq] Enqueue: CommitMonitor (at: 1525847700.0) (last: 1525847400.0)
08:30:00 sidekiq_glacial.1 | 2018-05-09T06:30:00.723Z 10608 TID-go2qms2u0 INFO: [Sidetiq] Enqueue: GithubNotificationMonitorWorker (at: 1525847460.0) (last: 1525847400.0)
08:30:00 sidekiq_glacial.1 | 2018-05-09T06:30:00.737Z 10608 TID-own8v8s88 INFO: [Sidetiq] Enqueue: PullRequestMonitor (at: 1525847700.0) (last: 1525847400.0)
08:30:00 sidekiq_glacial.1 | 2018-05-09T06:30:00.769Z 10608 TID-go2qms2u0 INFO: [Sidetiq] Enqueue: TravisBuildKiller (at: 1525847700.0) (last: 1525847400.0)
08:30:05 sidekiq.1         | 2018-05-09T06:30:05.074Z 10606 TID-gs5i8fweo BatchJobMonitor JID-508304f2bee489bd116912e2 INFO: start
08:30:05 sidekiq.1         | 2018-05-09T06:30:05.092Z 10606 TID-gs5i8fw7g GithubNotificationMonitorWorker JID-ae7d42537c6be4cbdf9af7d3 INFO: start
08:30:05 sidekiq.1         | 2018-05-09T06:30:05.099Z 10606 TID-gs5i8fvzo BatchJobMonitor JID-1e048e8c6678a942d7b6f8a7 INFO: start
08:30:05 sidekiq.1         | The PGconn, PGresult, and PGError constants are deprecated, and will be
08:30:05 sidekiq.1         | removed as of version 1.0.
08:30:05 sidekiq.1         |
08:30:05 sidekiq.1         | You should use PG::Connection, PG::Result, and PG::Error instead, respectively.
08:30:05 sidekiq.1         |
08:30:05 sidekiq.1         | Called from /root/.rbenv/versions/2.3.6/lib/ruby/gems/2.3.0/gems/activesupport-4.2.10/lib/active_support/dependencies.rb:240:in `load_dependency'
08:30:05 sidekiq_glacial.1 | 2018-05-09T06:30:05.115Z 10608 TID-go2rbnje4 CommitMonitor JID-2a897bca8a42c9635294684b INFO: start
08:30:05 sidekiq_glacial.1 | The PGconn, PGresult, and PGError constants are deprecated, and will be
08:30:05 sidekiq_glacial.1 | removed as of version 1.0.
08:30:05 sidekiq_glacial.1 |
08:30:05 sidekiq_glacial.1 | You should use PG::Connection, PG::Result, and PG::Error instead, respectively.
08:30:05 sidekiq_glacial.1 |
08:30:05 sidekiq_glacial.1 | Called from /root/.rbenv/versions/2.3.6/lib/ruby/gems/2.3.0/gems/activesupport-4.2.10/lib/active_support/dependencies.rb:240:in `load_dependency'
08:30:05 sidekiq.1         | 2018-05-09T06:30:05.144Z 10606 TID-gs5i8fvsg GithubNotificationMonitorWorker JID-25da21d3a5316220ddf6d551 INFO: start
08:30:05 sidekiq_glacial.1 | 2018-05-09T06:30:05.151Z 10608 TID-go2rbnj1w PullRequestMonitor JID-07a8c4ac5fc455fe38a141bf INFO: start
08:30:05 sidekiq.1         | 2018-05-09T06:30:05.159Z 10606 TID-gs5i8fxc0 TravisBuildKiller JID-06763d9aa38f91c2fa334fbb INFO: start
08:30:05 sidekiq.1         | 2018-05-09T06:30:05.528Z 10606 TID-gs5i8fweo BatchJobMonitor JID-508304f2bee489bd116912e2 INFO: done: 0.454 sec
08:30:05 sidekiq.1         | 2018-05-09T06:30:05.529Z 10606 TID-gs5i8fvzo BatchJobMonitor JID-1e048e8c6678a942d7b6f8a7 INFO: done: 0.43 sec
08:30:05 sidekiq.1         | 2018-05-09T06:30:05.531Z 10606 TID-gs5i8fxc0 TravisBuildKiller JID-06763d9aa38f91c2fa334fbb INFO: done: 0.372 sec
08:30:06 sidekiq.1         | I, [2018-05-09T08:30:06.318386 #10606]  INFO -- : Executed GET https://api.github.com/repos/xtest123/testrepo/notifications?all=false&per_page=100...api calls remaining 4999
08:30:06 sidekiq.1         | I, [2018-05-09T08:30:06.478771 #10606]  INFO -- : Executed GET https://api.github.com/repos/xtest123/testrepo/notifications?all=false&per_page=100...api calls remaining 4998
08:30:07 sidekiq.1         | I, [2018-05-09T08:30:07.027382 #10606]  INFO -- : Executed GET https://api.github.com/repos/xtest123/testrepo/issues/7...api calls remaining 4997
08:30:07 sidekiq.1         | I, [2018-05-09T08:30:07.078692 #10606]  INFO -- : Executed GET https://api.github.com/repos/xtest123/testrepo/issues/7...api calls remaining 4996
08:30:07 sidekiq.1         | I, [2018-05-09T08:30:07.757946 #10606]  INFO -- : Executed GET https://api.github.com/repos/xtest123/testrepo/issues/7/comments?per_page=100...api calls remaining 4994
08:30:07 sidekiq.1         | I, [2018-05-09T08:30:07.885266 #10606]  INFO -- : Executed GET https://api.github.com/repos/xtest123/testrepo/issues/7/comments?per_page=100...api calls remaining 4995
08:30:08 sidekiq_glacial.1 | 2018-05-09T06:30:08.160Z 10608 TID-go2rbnje4 CommitMonitor JID-2a897bca8a42c9635294684b INFO: Processing xtest123/testrepo/master
08:30:08 sidekiq_glacial.1 | 2018-05-09T06:30:08.255Z 10608 TID-go2rbnje4 CommitMonitor JID-2a897bca8a42c9635294684b INFO: Processing xtest123/testrepo/prs/4/head
08:30:08 sidekiq_glacial.1 | 2018-05-09T06:30:08.280Z 10608 TID-go2rbnje4 CommitMonitor JID-2a897bca8a42c9635294684b INFO: Processing xtest123/testrepo/prs/7/head
08:30:08 sidekiq_glacial.1 | 2018-05-09T06:30:08.285Z 10608 TID-go2rbnje4 CommitMonitor JID-2a897bca8a42c9635294684b INFO: Detected new commits ["61d24360a2bddb3d43b9af717d79d0457d0fb82d"]
08:30:08 sidekiq_glacial.1 | 2018-05-09T06:30:08.293Z 10608 TID-go2rbnje4 CommitMonitor JID-2a897bca8a42c9635294684b INFO: Queueing BugzillaPrChecker for commit range 61d24360a2bddb3d43b9af717d79d0457d0fb82d on branch prs/7/head
08:30:08 sidekiq.1         | 2018-05-09T06:30:08.294Z 10606 TID-gs5i8fxc0 CommitMonitorHandlers::CommitRange::BugzillaPrChecker JID-82eba1b9616614ed5a205716 INFO: start
08:30:08 sidekiq_glacial.1 | 2018-05-09T06:30:08.306Z 10608 TID-go2rbnje4 CommitMonitor JID-2a897bca8a42c9635294684b INFO: Queueing PathBasedLabeler for commit range 61d24360a2bddb3d43b9af717d79d0457d0fb82d on branch prs/7/head
08:30:08 sidekiq.1         | 2018-05-09T06:30:08.308Z 10606 TID-gs5i8fvls CommitMonitorHandlers::CommitRange::PathBasedLabeler JID-3a214eaa46f51032dd939181 INFO: start
08:30:08 sidekiq_glacial.1 | 2018-05-09T06:30:08.329Z 10608 TID-go2rbnje4 CommitMonitor JID-2a897bca8a42c9635294684b INFO: Queueing PivotalPrChecker for commit range 61d24360a2bddb3d43b9af717d79d0457d0fb82d on branch prs/7/head
08:30:08 sidekiq_glacial.1 | 2018-05-09T06:30:08.330Z 10608 TID-go2rbnje4 CommitMonitor JID-2a897bca8a42c9635294684b INFO: Queueing RubocopChecker for commit range 61d24360a2bddb3d43b9af717d79d0457d0fb82d on branch prs/7/head
08:30:08 sidekiq_glacial.1 | 2018-05-09T06:30:08.331Z 10608 TID-go2rbnjk8 CommitMonitorHandlers::CommitRange::RubocopChecker JID-33965c8aed53029133fd0615 INFO: start
08:30:08 sidekiq_glacial.1 | 2018-05-09T06:30:08.334Z 10608 TID-go2rbnje4 CommitMonitor JID-2a897bca8a42c9635294684b INFO: Queueing CommitMonitorHandlers::CommitRange::GithubPrCommenter for branch prs/7/head
08:30:08 sidekiq.1         | 2018-05-09T06:30:08.366Z 10606 TID-gs5i8fwks CommitMonitorHandlers::CommitRange::PivotalPrChecker JID-fe20f797c2cd8d80f9541de9 INFO: start
08:30:08 sidekiq.1         | 2018-05-09T06:30:08.403Z 10606 TID-gs5i8fwks CommitMonitorHandlers::CommitRange::PivotalPrChecker JID-fe20f797c2cd8d80f9541de9 INFO: done: 0.037 sec
08:30:08 sidekiq.1         | 2018-05-09T06:30:08.407Z 10606 TID-gs5i8fxc0 CommitMonitorHandlers::CommitRange::BugzillaPrChecker JID-82eba1b9616614ed5a205716 INFO: done: 0.113 sec
08:30:08 sidekiq.1         | 2018-05-09T06:30:08.414Z 10606 TID-gs5i8fvls CommitMonitorHandlers::CommitRange::PathBasedLabeler JID-3a214eaa46f51032dd939181 INFO: done: 0.106 sec
08:30:08 sidekiq.1         | I, [2018-05-09T08:30:08.526307 #10606]  INFO -- : Executed PATCH https://api.github.com/notifications/threads/334924169...api calls remaining 4993
08:30:08 sidekiq.1         | 2018-05-09T06:30:08.528Z 10606 TID-gs5i8fw7g GithubNotificationMonitorWorker JID-ae7d42537c6be4cbdf9af7d3 INFO: done: 3.436 sec
08:30:08 sidekiq.1         | I, [2018-05-09T08:30:08.709028 #10606]  INFO -- : Executed PATCH https://api.github.com/notifications/threads/334924169...api calls remaining 4992
08:30:08 sidekiq.1         | 2018-05-09T06:30:08.711Z 10606 TID-gs5i8fvsg GithubNotificationMonitorWorker JID-25da21d3a5316220ddf6d551 INFO: done: 3.566 sec
08:30:08 sidekiq.1         | 2018-05-09T06:30:08.729Z 10606 TID-gs5i8fws0 CommitMonitorHandlers::CommitRange::GithubPrCommenter::DiffContentChecker JID-13cac61e95de58ec1a5e8443 INFO: start
08:30:08 sidekiq_glacial.1 | 2018-05-09T06:30:08.733Z 10608 TID-go2rbndok CommitMonitorHandlers::CommitRange::GithubPrCommenter::DiffFilenameChecker JID-185a53597d06d231976a2163 INFO: start
08:30:09 sidekiq_glacial.1 | 2018-05-09T06:30:09.048Z 10608 TID-go2rbnje4 CommitMonitor JID-2a897bca8a42c9635294684b INFO: done: 3.933 sec
08:30:09 sidekiq.1         | 2018-05-09T06:30:09.095Z 10606 TID-gs5i8fws0 CommitMonitorHandlers::CommitRange::GithubPrCommenter::DiffContentChecker JID-13cac61e95de58ec1a5e8443 INFO: done: 0.366 sec
08:30:09 sidekiq_glacial.1 | I, [2018-05-09T08:30:09.271011 #10608]  INFO -- : Executed GET https://api.github.com/repos/xtest123/testrepo/pulls?per_page=100...api calls remaining 4991
08:30:10 sidekiq_glacial.1 | 2018-05-09T06:30:10.032Z 10608 TID-go2rbncvo CommitMonitorHandlers::CommitRange::GithubPrCommenter JID-ddb014ad8c241d8fb5bfce1a INFO: start
08:30:10 sidekiq_glacial.1 | 2018-05-09T06:30:10.034Z 10608 TID-go2rbndok CommitMonitorHandlers::CommitRange::GithubPrCommenter::DiffFilenameChecker JID-185a53597d06d231976a2163 INFO: done: 1.302 sec
08:30:10 sidekiq_glacial.1 | 2018-05-09T06:30:10.053Z 10608 TID-go2rbncvo CommitMonitorHandlers::CommitRange::GithubPrCommenter JID-ddb014ad8c241d8fb5bfce1a INFO: Adding batch comment to PR 7.
08:30:10 sidekiq_glacial.1 | 2018-05-09T06:30:10.141Z 10608 TID-go2rbnj1w PullRequestMonitor JID-07a8c4ac5fc455fe38a141bf INFO: done: 4.99 sec
08:30:10 sidekiq_glacial.1 | I, [2018-05-09T08:30:10.710065 #10608]  INFO -- : Executed GET https://api.github.com/repos/xtest123/testrepo/issues/7/comments?per_page=100...api calls remaining 4990
08:30:10 sidekiq_glacial.1 | 2018-05-09T06:30:10.744Z 10608 TID-go2rbncvo CommitMonitorHandlers::CommitRange::GithubPrCommenter JID-ddb014ad8c241d8fb5bfce1a INFO: done: 0.713 sec
08:30:12 sidekiq_glacial.1 | + [/root/miq_bot/repos/xtest123/testrepo] git rev-parse --git-dir --show-toplevel # => ".git\n/root/miq_bot/repos/xtest123/testrepo\n"
08:30:12 sidekiq_glacial.1 | + git fetch --all
08:30:13 sidekiq_glacial.1 | + git diff --patience -U0 --no-color origin/master...61d24360a2bddb3d43b9af717d79d0457d0fb82d
08:30:13 sidekiq_glacial.1 | 2018-05-09T06:30:13.782Z 10608 TID-go2rbnjk8 CommitMonitorHandlers::CommitRange::RubocopChecker JID-33965c8aed53029133fd0615 INFO: Updating PR 7 with rubocop comment.
08:30:14 sidekiq_glacial.1 | I, [2018-05-09T08:30:14.586982 #10608]  INFO -- : Executed GET https://api.github.com/repos/xtest123/testrepo/issues/7/comments?per_page=100...api calls remaining 4989
08:30:15 sidekiq_glacial.1 | I, [2018-05-09T08:30:15.835290 #10608]  INFO -- : Executed DELETE https://api.github.com/repos/xtest123/testrepo/issues/comments/388790349...api calls remaining 4988
08:30:17 sidekiq_glacial.1 | I, [2018-05-09T08:30:17.500472 #10608]  INFO -- : Executed POST https://api.github.com/repos/xtest123/testrepo/issues/7/comments...api calls remaining 4987
08:30:17 sidekiq_glacial.1 | 2018-05-09T06:30:17.503Z 10608 TID-go2rbnjk8 CommitMonitorHandlers::CommitRange::RubocopChecker JID-33965c8aed53029133fd0615 INFO: done: 9.172 sec
^CSIGINT received
08:30:33 system            | sending SIGTERM to all processes
08:30:33 thin.1            | exited with code 0
[root@localhost miq_bot]#
```

Enhancements



- Pronto
  - MiqBot´s Formatter
- Gitter
- GitHub Status API
- Missing commands for GitHub´s interface
  - unassign
  - add_reviewer
  - remove_reviewer
- Automated pull request review requests
- Removal of “old” unmergeable comments

Pronto

europbot commented 16 days ago • edited by europ

Member

Checked commits europ/testrepo@ `cc2474e~...6edda80` with ruby 2.3.6, rubocop 0.52.1, haml-lint 0.27.0, and yamllint 1.10.0
4 files checked, 6 offenses detected

header.yaml

- ☐ ⚠ - Line 1 - Pronto::YAMLLintRunner - 1:1: [warning] missing document start "---" (document-start)

space.haml

- ☐ ⚠ - Line 1 - Pronto::Haml - Line contains trailing whitespace

space.rb

- ☐ ⚠ - Line 1 - Pronto::Rubocop - Layout/TrailingWhitespace: Trailing whitespace detected.
- ☐ ⚠ - Line 3 - Pronto::Rubocop - Layout/EmptyLines: Extra blank line detected.
- ☐ ⚠ - Line 4 - Pronto::Rubocop - Layout/TrailingBlankLines: Final newline missing.

x/x/x/y/asd.rb

- ☐ ⚠ - Line 1 - Pronto::Rubocop - Layout/TrailingWhitespace: Trailing whitespace detected.

europbot commented 12 days ago

Member

Commits europ/testrepo@ `cc2474e~...5514a32` checked with ruby 2.3.6 and:

Pronto Runners	Version	Linters	Version
pronto-rubocop	0.9.0	rubocop	0.52.1
pronto-haml	0.9.0	haml_lint	0.27.0
pronto-yamllint	0.1.0	yamllint	1.10.0

6 offenses detected in 4 files.

space.haml

- ☐ ⚠ - Line 1 - Haml - Line contains trailing whitespace

space.rb

- ☐ ⚠ - Line 1 - Rubocop - Layout/TrailingWhitespace: Trailing whitespace detected.
- ☐ ⚠ - Line 3 - Rubocop - Layout/EmptyLines: Extra blank line detected.
- ☐ ⚠ - Line 4 - Rubocop - Layout/TrailingBlankLines: Final newline missing.

x/x/x/y/asd.rb

- ☐ ⚠ - Line 1 - Rubocop - Layout/TrailingWhitespace: Trailing whitespace detected.

header.yaml

- ☐ ⚠ - Line 1 - YAMLLintRunner - 1:1: [warning] missing document start "---" (document-start)

Gitter

```
travis_monitor:
  gitter_token: "**************************************"
  branches:
    - repo: "owner/name"
      branch: "name"
      gitter_room: "owner/name"
    - repo: "owner/name"
      branch: "name"
      gitter_room: "owner/name"
    - repo: "owner/name"
      branch: "name"
      gitter_room: "owner/name"
```

Default Branch

✓ master	# 67166 passed	e915a3f	✓ ✓ ✓ ✓ ✓
12627 builds	about 19 hours ago	GitHub	

Active Branches

✓ gaprindashvili	# 67183 passed	d460eb8	✓ ✓ ✓ ✓ ✓
338 builds	14 minutes ago	Satoe Imaishi	
✓ fine	# 67149 passed	29cc195	✓ ✓ ✓ ✓ ✗
580 builds	about 24 hours ago	GitHub	
✓ euwe	# 66773 passed	425a6d7	✓ ✓ ✗ ✗ ✗
1558 builds	27 days ago	Satoe Imaishi	
✗ darga	# 61695 failed	2390f99	✗ ✗ ✗ ✓ ✓
1209 builds	8 months ago	GitHub	

Adrián Tóth BOT @europbot 16:11

🆘 ⚠️ "master" in "xtest123/testrepo" is broken ‼️ 💥

✅ Broken branch has been fixed 💚

GitHub Status API

test ✔ 1cf21dd

europbot commented a minute ago — Member

Checked commits europ/testrepo@6727908~...1cf21dd with ruby 2.3.3, rubocop 0.52.1, haml-lint 0.20.0, and yamllint 1.10.0
0 files checked, 0 offenses detected
Everything looks fine. 🏆

Add more commits by pushing to the **new** branch on **europ/testrepo**.

All checks have passed — Hide all checks
1 successful check

✔ **mlq-bot** — Everything looks fine. Details

This branch has no conflicts with the base branch
Merging can be performed automatically.

Merge pull request or view command line instructions.

test ✘ 7e19eee

europbot commented 12 seconds ago — Member

Checked commits europ/testrepo@ `6727908~...7e19eee` with ruby 2.3.6, rubocop 0.52.1, haml-lint 0.20.0, and yamllint 1.10.0
4 files checked, 6 offenses detected

**

☐ 💣 💥 🔥 🚒 - Linter/Yaml - missing config files

space.rb

☐ ❗ - Line 1, Col 13 - Layout/TrailingWhitespace - Trailing whitespace detected.

Add more commits by pushing to the **new** branch on **europ/testrepo**.

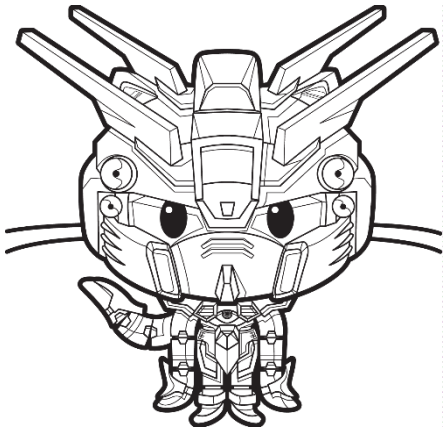
All checks have failed — Hide all checks
1 errored check

✘ **mlq-bot** — Something went wrong. Details

This branch has no conflicts with the base branch
Merging can be performed automatically.

Merge pull request or view command line instructions.

Missing Commands



Pull Request #8

Open **europ** wants to merge 1 commit into `xtest123:master` from `europ:abc`

Conversation 0 | Commits 1 | Checks 0 | Files changed 0 +0 −0

europ commented a minute ago — Member

No description provided.

123 d5c21a2

Add more commits by pushing to the **abc** branch on **europ/testrepo**.

This branch has no conflicts with the base branch

Merging can be performed automatically.

Merge pull request | You can also open this in GitHub Desktop or view command line instructions.

Reviewers

No reviews

Assignees

No one—assign yourself

Labels

None yet

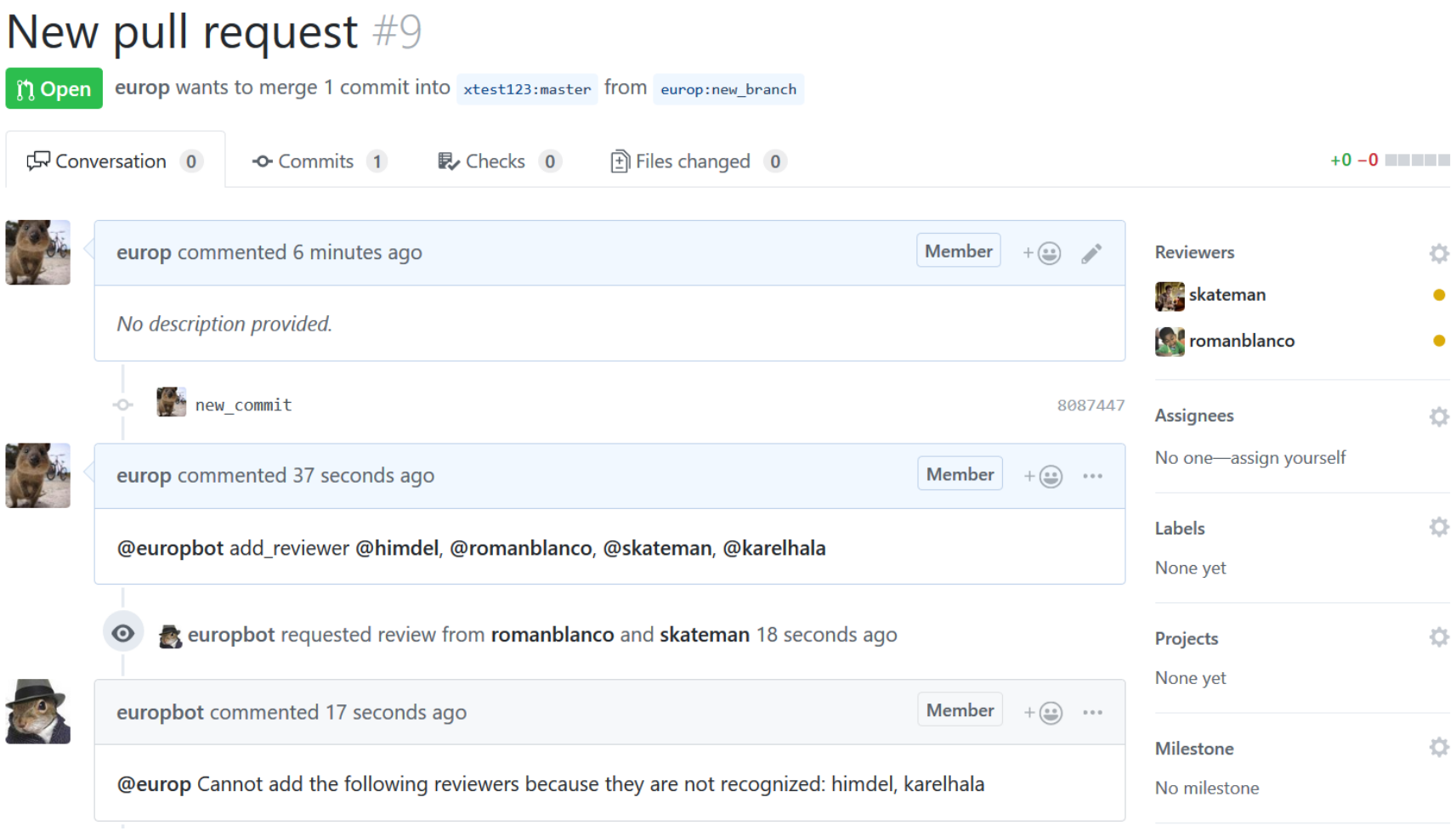
Projects

None yet

Milestone

No milestone

Pull Request Review



Automated review request

Rely only on decorators when determining icons/images in text summaries #3862

Merged **martinpovolny** merged 1 commit into `ManageIQ:master` from `skateman:textual-summary-icons` 12 days ago

Conversation 2 | Commits 1 | Checks 0 | Files changed 1 | +2 −10

skateman commented 19 days ago — Member

Analogous with #3852, so there's a script and a produced list of potentially unsafe models:

```
tag
middleware_messaging
network
miq_database
authentication
cloud_resource_quota
middleware_datasource
configuration_script
```

I went through all of these and haven't found any cross-reference with textual summaries so both the redundant cases and the evil `.underscore` have been removed.

If I am wrong, this will probably cause a missing icon regression so please test this thoroughly.

@miq-bot add_reviewer **@epwinchell**
@miq-bot add_label graphics, refactoring, gaprindashvili/no

skateman requested a review from **martinpovolny** as a code owner 19 days ago

miq-bot requested a review from **epwinchell** 19 days ago

miq-bot added gaprindashvili/no graphics refactoring labels 19 days ago

Reviewers
epwinchell ✓
martinpovolny

Assignees
martinpovolny

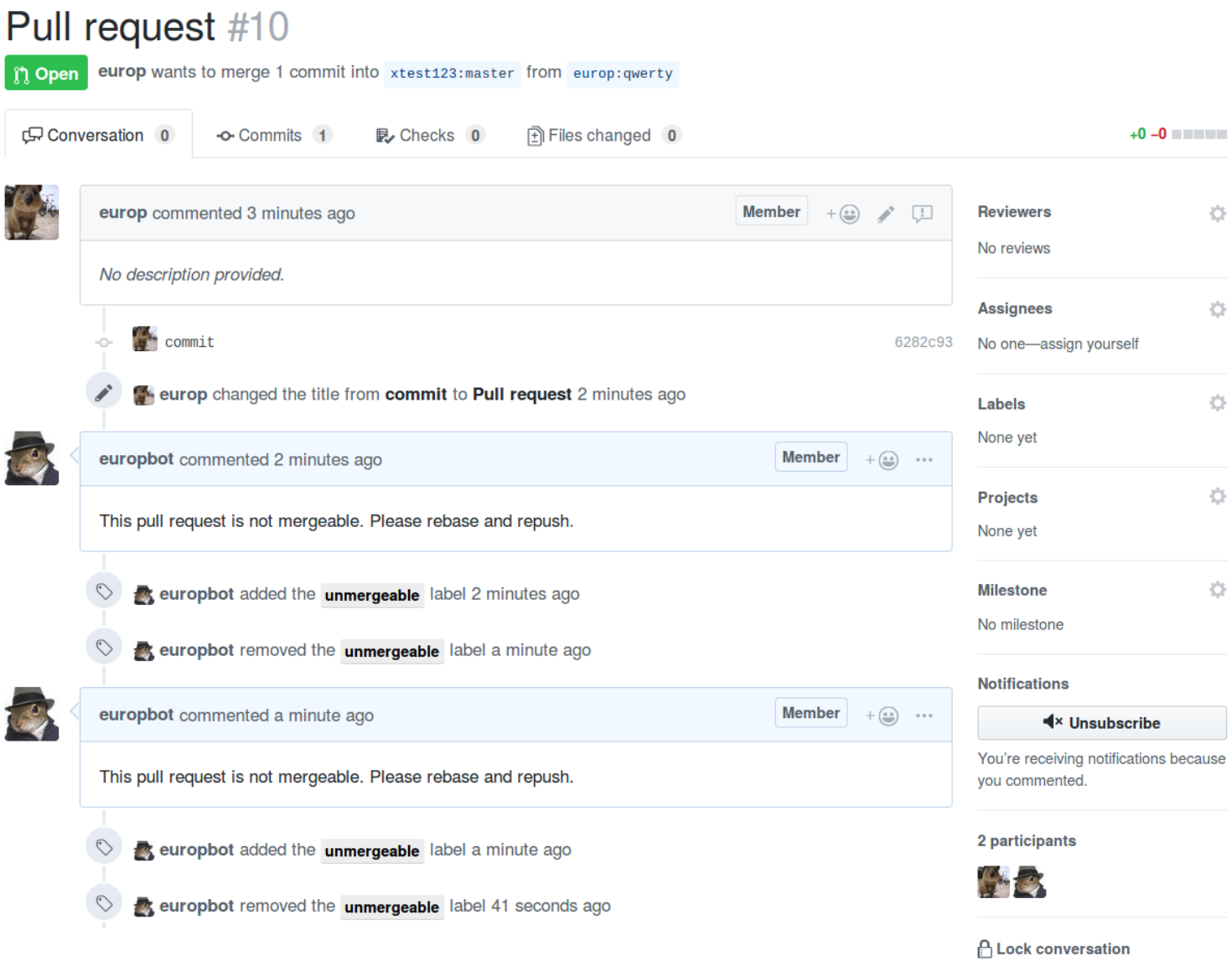
Labels
gaprindashvili/no
graphics
refactoring

Projects
None yet

Milestone
Sprint 85 Ending ...

Notifications
Subscribe
You're not receiving notifications from this thread.

Unmergeable status problem



Thank you!