Automated Code Review for Mobile Teams

Team

Growth Session #14 - May 17-18 2018

- Integrate [Pronto](#) with Swiftlint for automated code review.

- Apply it to Braive iOS project

- Separate `.swiftlint.yml` for each target

- Update [Compass](#) for Swift

Obstacles

Ruby environment in Jenkins

Pirush Prechat...	59d37dd	[#157657489] remove which rvm		14 hours ago	
Pirush Prechat...	ec08969	[#157657489] debug mode test		14 hours ago	
Pirush Prechat...	4eac52f	[#157657489] another syntax fixing try		14 hours ago	
Pirush Prechat...	99d10cd	[#157657489] update syntax		14 hours ago	
Pirush Prechat...	f463f3e	[#157657489] revert changes from jenkins		14 hours ago	
Pirush Prechat...	cbad381	[#157657489] explicitly use ruby 2.4.1 for bundle install		15 hours ago	
Pirush Prechat...	a05185a	[#157657489] bind source to call bundle install		16 hours ago	
Pirush Prechat...	2759b29	[#157657489] bind source to call rvm		16 hours ago	
Pirush Prechat...	72ed122	[#157657489] remove explicit export path		16 hours ago	
Pirush Prechat...	a90409d	[#157657489] add source path for rvm to shell script		16 hours ago	
Pirush Prechat...	1d34eab	[#157657489] export PATH for Jenkins		20 hours ago	
Pirush Prechat...	000782b	[#157657489] debug ruby version		22 hours ago	
Pirush Prechat...	952c650	[#157657489] specify ruby version for rvm		22 hours ago	
Pirush Prechat...	edd087f	[#157657489] remove rake		22 hours ago	
Pirush Prechat...	3b7688a	[#157657489] directively download rake from github		22 hours ago	
Pirush Prechat...	c47ac06	[#157657489] manual install rake		22 hours ago	
Pirush Prechat...	e1d4e8e	[#157657489] mark debug resolver		22 hours ago	
Pirush Prechat...	76e4f6a	[#157657489] make debuggable		22 hours ago	
Pirush Prechat...	d10fa26	[#157657489] mark pronto-swiftlint unrequired		22 hours ago	
Pirush Prechat...	81a3d33	[#157657489] fix groovy syntax in Jenkinsfile		23 hours ago	
Pirush Prechat...	6640e74	[#157657489] add test pronto function to test automated code review		23 hours ago	
Pirush Prechat...	19406bc	[ci-skip][#157657489] make ci skip apply to clean_git_status		23 hours ago	
Pirush Prechat...	6f28bfb	[ci-skip][#157657489] update Gemfile.lock		23 hours ago	
Pirush Prechat...	80aa732	[ci-skip][#157657489] make pronto-swiftlint as required in Gemfile		23 hours ago	
Pirush Prechat...	d8fd4fc	[ci-skip][#157657489] add .pronto.yml and introduce pronto to Gemfile and Jenkinsfile		23 hours ago	

Workaround

Ruby environment in Jenkins

⇒ Replicate what rvm does for us

☁ Thanks to Michal Knapik on his blog [here](#)

```groovy
def withRvm(String version, String gemset, String[] commands) {
  final RVM_HOME = '$HOME/.rvm'
  paths = [
      "$RVM_HOME/gems/$version@$gemset/bin",
      "$RVM_HOME/gems/$version@global/bin",
      "$RVM_HOME/rubies/$version/bin",
      "$RVM_HOME/bin",
      "${env.PATH}"
  ]
  def path = paths.join(':')
  withEnv([
      "PATH=$path",
      "GEM_HOME=$RVM_HOME/gems/$version@$gemset",
      "GEM_PATH=$RVM_HOME/gems/$version@$gemset:$RVM_HOME/gems/$version@global",
      "MY_RUBY_HOME=$RVM_HOME/rubies/$version",
      "IRBRC=$RVM_HOME/rubies/$version/.irbrc",
      "RUBY_VERSION=$version"
  ]) {
      def command = commands.join('\n')
      sh """#!/bin/bash -l
      source ~/.bash_profile
      set -e
      $command
      """
  }
}
```

Obstacles

Pronto-swiftlint errors

```
Linting 'SettingElements.swift' (202/202)
Done linting! Found 8 violations, 0 serious in 202 files.
/Users/admin/.rvm/rubies/ruby-2.4.1/lib/ruby/2.4.0/ostruct.rb:95:in `initialize': undefined method `each_pair' for ["type", "error"]:Array (NoMethodError)
Did you mean?  each_slice
        from /Users/admin/.rvm/gems/ruby-2.4.1/gems/pronto-0.9.5/lib/pronto/clients/bitbucket_client.rb:36:in `new'
        from /Users/admin/.rvm/gems/ruby-2.4.1/gems/pronto-0.9.5/lib/pronto/clients/bitbucket_client.rb:36:in `block in openstruct'
        from /Users/admin/.rvm/gems/ruby-2.4.1/gems/pronto-0.9.5/lib/pronto/clients/bitbucket_client.rb:36:in `each'
        from /Users/admin/.rvm/gems/ruby-2.4.1/gems/pronto-0.9.5/lib/pronto/clients/bitbucket_client.rb:36:in `map'
        from /Users/admin/.rvm/gems/ruby-2.4.1/gems/pronto-0.9.5/lib/pronto/clients/bitbucket_client.rb:36:in `openstruct'
        from /Users/admin/.rvm/gems/ruby-2.4.1/gems/pronto-0.9.5/lib/pronto/clients/bitbucket_client.rb:20:in `pull_comments'
        from /Users/admin/.rvm/gems/ruby-2.4.1/gems/pronto-0.9.5/lib/pronto/bitbucket.rb:5:in `pull_comments'
        from /Users/admin/.rvm/gems/ruby-2.4.1/gems/pronto-0.9.5/lib/pronto/formatter/pull_request_formatter.rb:6:in `existing_comments'
        from /Users/admin/.rvm/gems/ruby-2.4.1/gems/pronto-0.9.5/lib/pronto/formatter/git_formatter.rb:6:in `format'
        from /Users/admin/.rvm/gems/ruby-2.4.1/gems/pronto-0.9.5/lib/pronto.rb:67:in `block in run'
        from /Users/admin/.rvm/gems/ruby-2.4.1/gems/pronto-0.9.5/lib/pronto.rb:66:in `each'
        from /Users/admin/.rvm/gems/ruby-2.4.1/gems/pronto-0.9.5/lib/pronto.rb:66:in `run'
        from /Users/admin/.rvm/gems/ruby-2.4.1/gems/pronto-0.9.5/lib/pronto/cli.rb:61:in `block in run'
        from /Users/admin/.rvm/gems/ruby-2.4.1/gems/pronto-0.9.5/lib/pronto/cli.rb:60:in `chdir'
        from /Users/admin/.rvm/gems/ruby-2.4.1/gems/pronto-0.9.5/lib/pronto/cli.rb:60:in `run'
        from /Users/admin/.rvm/gems/ruby-2.4.1/gems/thor-0.19.4/lib/thor/command.rb:27:in `run'
        from /Users/admin/.rvm/gems/ruby-2.4.1/gems/thor-0.19.4/lib/thor/invocation.rb:126:in `invoke_command'
        from /Users/admin/.rvm/gems/ruby-2.4.1/gems/thor-0.19.4/lib/thor.rb:369:in `dispatch'
        from /Users/admin/.rvm/gems/ruby-2.4.1/gems/thor-0.19.4/lib/thor/base.rb:444:in `start'
        from /Users/admin/.rvm/gems/ruby-2.4.1/gems/pronto-0.9.5/bin/pronto:6:in `<top (required)>'
        from /Users/admin/.rvm/gems/ruby-2.4.1/bin/pronto:23:in `load'
        from /Users/admin/.rvm/gems/ruby-2.4.1/bin/pronto:23:in `<main>'
        from /Users/admin/.rvm/gems/ruby-2.4.1/bin/ruby_executable_hooks:15:in `eval'
        from /Users/admin/.rvm/gems/ruby-2.4.1/bin/ruby_executable_hooks:15:in `<main>'
script returned exit code 1
```

Achievements and progress

🕐 Build braive-ios » PR-145 #9 for commit 0afcabc   2018-06-13
The tests have started...

👤 **Freddy** commented on the file `Braive/Controllers/Home/Course/CourseViewModel.swift`

Hmm.. Limit vertical whitespace to a single empty line. Currently 2. 😡

Reply • Delete • Create task • 2018-06-13

🕐 Build braive-ios » feature/list-of-lesson-in-course #15 for commit 0afcabc   2018-06-13
The tests have started...

👤 **Freddy** commented on a file

📄 Braive/Models/Activity+Category.swift `ADDED`   `OUTDATED`   Side-by-side diff   View file   ···

```
40  +          case Category.video.rawValue:          self = .video
41  +          case Category.k9.rawValue:             self = .k9
42  +          case Category.k10.rawValue:            self = .k10
43  +          default:                               throw ActivityTypeCodingError.decoding("\(stringValue) doesn't match any Activity.Category enum")
```

👤 **Freddy**

Hmm.. Line should be 120 characters or less: currently 153 characters 😡

Reply • Like • Delete • Create task • 2 days ago

```
44  +              }
45  +          }
46  +      }
```

Thanks!

Contact Nimbl3

hello@nimbl3.com

399 Sukhumvit Road, Interchange 21
Klongtoey nua, Wattana
Bangkok 10110

28C Stanley St,
Singapore 068737

20th Floor, Central Tower
28 Queen's Road
Central, Hong Kong

nimbl3.com