

WHAT WEB-6 GROUP DID FOR PS-1

Git

- Generate SSH keys [1] on local machine
- Send SSH public key to Dr.Matthew to be able to access git@vgl-ait.org:web16-06
- Create a master branch, and then create a develop branch
- Add default .gitignore for Rails [2], and RubyMine [3]
- Add Rubocop [4] to be compliant to Ruby coding style guide [5]

Rails

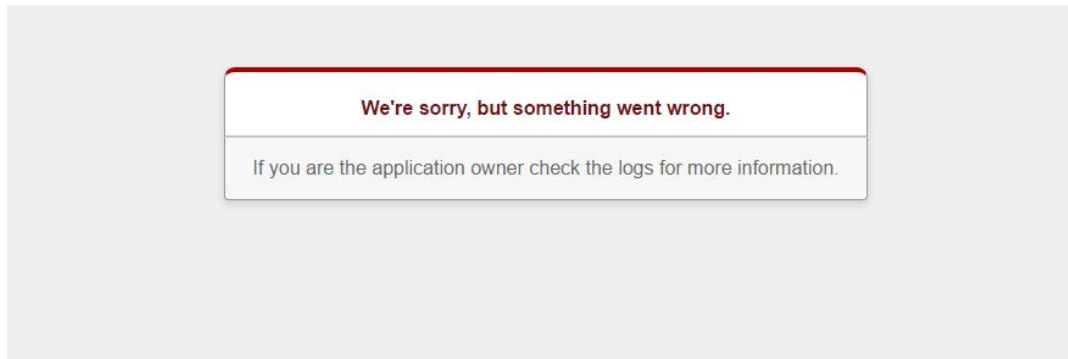
- Create a new Rails project [6]
- Extract requirements from Problem Set 1 into acceptance tests [16] [17]
- Implement acceptance tests (step definitions) [7] [16] [21]
- Write unit tests [9] [10] [11] [12]
- Add a shell script to execute all tests
- Implement Rails according to the tests
 - Generate controllers
 - Implement Nokogiri [13] for YouTube scrapping (in order to get the top 10 trending videos)
 - Divide by zero : Enabled stack trace in production mode. [22] This simplifies error debugging process. However, this is not recommended, we might need to find better ways to see errors on production.
 - XHTML validation : Added the validation button [14] [15] to all pages [18] of the project. Also, we have checked and fixed all validation errors from W3C validator.

SSH

- Put SSH public key into the server
- Setup proxy [8] to be able to connect to HTTP and HTTPS
- Setup SSH client configuration to be able to connect to the server. This forwards the SSH public key from laptop to the server allowing us to perform git operations [8]
- Install and configure Apache [6]
- Install and configure PostgreSQL [19]
- Create database user [23]
- Install Passenger [6]
- Rails production deployment
 - Generate rails secret and add it as environment variable into ~/.bash_profile
 - Create a new environment variable in ~/.bash_profile that stores the production database password

Divide By Zero

1. We wrote a method that performs $1 / 0$
2. We ran the page in the browser and received the following message:



In a project, a message like this is not much of any help as this does not indicate what is causing the problem.

3. We then enabled **`config.consider_all_requests_local`** [22] flag in `production.rb` file
4. We restarted the Apache server to load the new changes
5. We are now able to view the stack trace of the error

References

1. <https://help.github.com/articles/generating-a-new-ssh-key-and-adding-it-to-the-ssh-agent/#generating-a-new-ssh-key>
2. <https://github.com/github/gitignore/blob/master/Rails.gitignore>
3. <https://github.com/github/gitignore/blob/master/Global/JetBrains.gitignore>
4. <https://rubocop.readthedocs.io>
5. <https://github.com/bbatsov/ruby-style-guide>
6. https://cis.ait.asia/course_offerings/440/rails-companion
7. <https://gist.github.com/tomas-stefano/6652111>
8. https://cis.ait.asia/course_offerings/440/ait-git-guide
9. <https://github.com/seattlerb/minitest>
10. <https://github.com/bblimke/webmock>
11. <http://marnen.github.io/webmock-presentation/webmock.html>
12. <http://betterspecs.org/>
13. <http://www.nokogiri.org/>
14. <https://validator.w3.org/docs/help.html#icon>
15. <https://www.w3.org/QA/Tools/Icons>
16. <http://www.rubydoc.info/github/jnicklas/capybara/master>
17. <https://cucumber.io/docs/reference/rails>
18. <http://stackoverflow.com/questions/15308604/inserting-headers-and-footers-in-ruby-on-rails-web-application>
19. <http://stackoverflow.com/questions/37661192/postgresql-wont-work-on-ubuntu-16-04>
20. <http://hyperpolyglot.org/scripting>
21. http://www.rubydoc.info/github/jnicklas/capybara/master/Capybara/Session#status_code-instance_method
22. <http://guides.rubyonrails.org/configuring.html#rails-general-configuration>
23. <https://www.postgresql.org/docs/current/static/app-createuser.html>

Credit

- Web 8 group for config.consider_all_requests_local and Rails environment variables