**Training Guide**

# I - Set up Ruby on Rails Development Environment

Ubuntu 12.04 LTS  
RVM - Ruby version manager  
Ruby 2.0.0  
Rails 4.0.0  
Git  
Heroku Toolbelt  
Sublime Text 2

***Open Terminal to setup for Sh***

First change some settings in Gnome Terminal. Go to *Edit -> Profile Preferences -> Title and Command* and check the “Run Command as login shell” box.

## 1. Install Ruby on Rails

Make sure all packages are up to date  
sudo apt-get update

Install curl (if not have)  
sudo apt-get install curl

Install rvm  
\curl -L https://get.rvm.io | bash -s stable  
source ~/.rvm/scripts/rvm

Install RVM dependencies  
rvm requirements

Now, install Ruby 2.0.0  
rvm install 2.0.0

Let RVM use Ruby 2.0.0 by default  
rvm use 2.0.0 --default

It’s time to install Rails 4.0.0 without ri and rdoc (which you actually never use)  
gem install rails --version 4.0.0 --no-ri --no-rdoc

Running the following command to make sure Ruby on Rails has been installed successfully

rails new test

cd test

rails s

Open browser, visit:<http://localhost:3000>, if an web page is open then you are success.

Fix a problem that makes “rails not found” error:  
<https://rvm.io/integration/gnome-terminal>

## 2. Install Git

Create an account on Github @ <https://github.com/>

Install Git  
sudo apt-get install git-core

Git basic config  
git config --global user.name "Your Name"  
git config --global user.email [newuser@example.com](mailto:newuser@example.com)

Your email should be the same as your Github account. You may set it differently, but it will introduce some additional work.

To avoid of authentication each time you pull from or push to Github, add these lines to .netrc file:  
machine github.com  
 login yourusername  
 password yourpassword

## 3. Install Heroku Toolbelt

Create an account on Heroku @ <https://www.heroku.com/>

Install Heroku Toolbelt follow the instruction at <https://toolbelt.heroku.com/>

After successfully install Heroku Toolbelt, run the following command:  
heroku login

## 4. Install Sublime Text 2

sudo add-apt-repository ppa:webupd8team/sublime-text-2  
sudo apt-get update  
sudo apt-get install sublime-text

You can launch Sublime Text 2 from Terminal by typing subl

# II - Learn Ruby on Rails

## 1. Ruby on Rails tutorials

Ruby on Rails Tutorial: <http://ruby.railstutorial.org/>

Good References:  
<http://guides.rubyonrails.org/>  
<http://api.rubyonrails.org/>  
<http://google.com>

## 2. Rails & RESTful

Basic about RESTful Web services  
<http://www.ibm.com/developerworks/vn/library/ws-restful/>

References  
Representational State Transfer (REST): <http://www.ics.uci.edu/~fielding/pubs/dissertation/rest_arch_style.htm>  
RESTful Web Services book  
<http://shop.oreilly.com/product/9780596529260.do>

## le3. Working with form

# III - Learn Git

## 1.

Pro Git book: <http://git-scm.com/book>

## 2. Framgia pull-req procedure (True way)

1. Before working on a new task  
   git checkout develop  
   git pull framgia develop
2. Create a new branch for the task  
   git checkout -b task-name
3. When ready for commit  
   git add .  
   git commit -m “descriptive message about this commit”
4. Checkout to the develop branch to pull newest code  
   git checkout  
   git pull framgia develop
5. Return to the working branch and rebase  
   git checkout task-name  
   git rebase develop
6. If there are conflicts, go to conflict files and fix them, after finish, continue rebase  
   git add .  
   git rebase --continue
7. Push the commit to Github account  
   git push origin task-name

# IV - MySQL

Learning MySQL: <http://student.agh.edu.pl/~gegotek/Learning%20MySQL%20V413HAV.pdf>

Introduction to SQL: <http://cs.lmu.edu/~ray/notes/introsql/>  
No SQL: <http://cs.lmu.edu/~ray/notes/nosql/>

# V **- Coding Convention - Best Practices**

Basic rules that you should follow in first place

* 80 chars rule (except view files)
* do not use () as possible

Links to Framgia Coding standard:

Ruby  
<https://github.com/framgia/coding-standards/blob/master/vn/ruby/standard.md>

Ruby on Rails  
<https://github.com/framgia/coding-standards/blob/master/vn/rails/standard.md>

# VI - Others

Install Memcached  
sudo apt-get install memcached

Install [ImageMagick](http://www.imagemagick.org/script/index.php)  
sudo apt-get install imagemagick

Install [Redis](http://redis.io/)   
<http://redis.io/download>

Devise gem  
<http://devise.plataformatec.com.br/>

Simple example  
<https://github.com/jayshepherd/devise_example>

Install Node.js  
<https://github.com/joyent/node/wiki/Installing-Node.js-via-package-manager#ubuntu-mint>

How to Setup a Production Server for Rails 4  
<http://robmclarty.com/blog/how-to-setup-a-production-server-for-rails-4>

Install mysql2 gem

sudo apt-get install libmysqlclient-dev