1. Add the cancan gem to the Gemfile and bundle install.

2. Run cancan generator

➜ rails g cancan:ability

create app/models/ability.rb

3. Create a migration to store a user’s access per project

class CreateProjectAccess < ActiveRecord::Migration

def change

create\_table :roles do |t|

t.string :name

t.string :description

end

create\_table :project\_access do |t|

t.references :user

t.references :project

t.references :role

end

end

end

4. Create a role model and a project\_access model

➜ touch app/models/role.rb

➜ touch app/models/project\_access.rb

class Role < ActiveRecord::Base

end

class ProjectAccess < ActiveRecord::Base

self.table\_name = :project\_access

belongs\_to :user

belongs\_to :project

belongs\_to :role

end

5. Create a one-off script to create initial roles in the system

➜ touch script/one-off/20121006\_create\_roles.rb

require File.dirname(File.expand\_path(\_\_FILE\_\_)) + "/../../config/environment"

roles = {

project\_admin: 'Administrator of a given project',

project\_collaborator: 'Collaborator of a given project'

}

roles.each do |role, description|

p "Creating role: #{role}"

Role.create(:name => role, :description => description)

end

6. Annotate the new models

➜ annotate

7.

➜ railsforcharity git:(master) ✗ touch app/models/role.rb

4. Create a role model and a project\_access model

➜ railsforcharity git:(master) ✗ touch app/models/role.rb