

UNIVERSIDAD NACIONAL AUTÓNOMA DE NICARAGUA

UNAN-León.



Facultad de Ciencias y Tecnología

Carrera: Ingeniería en Telemática.

Componente: Software como un servicio.

Docente: Ervin Montes.

Nombre:

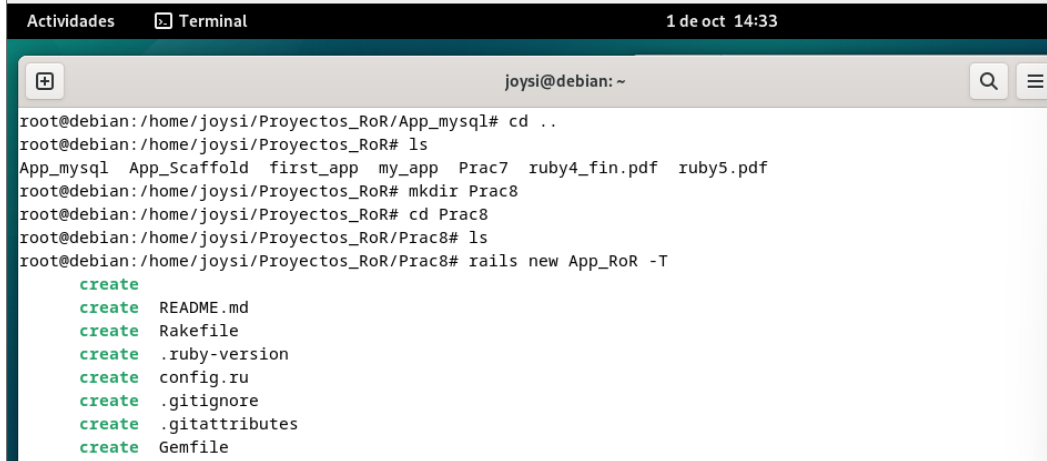
• Joysi Julissa García Soza.

Fecha: 01/10/2024.

¡A la libertad por la universidad!

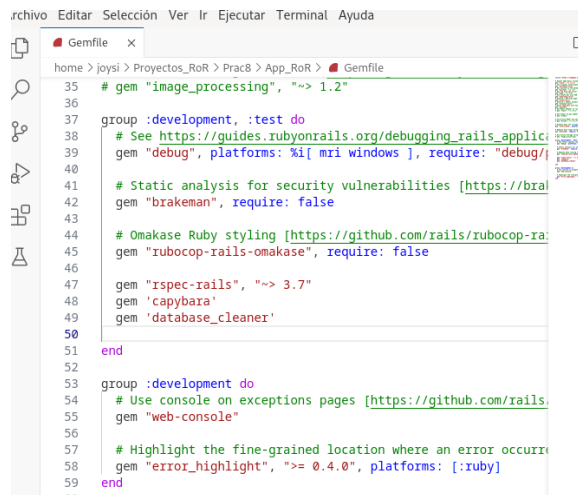
1. Generar un nuevo proyecto.

Al generar un nuevo proyecto se escribe el `-T`, para que el framework no configure la herramienta de pruebas, que se instala por defecto al momento de generar el proyecto en Rails



```
Actividades Terminal 1 de oct 14:33
joysi@debian: ~
root@debian:/home/joysi/Proyectos_RoR/App_mysql# cd ..
root@debian:/home/joysi/Proyectos_RoR# ls
App_mysql App_Scaffold first_app my_app Prac7 ruby4_fin.pdf ruby5.pdf
root@debian:/home/joysi/Proyectos_RoR# mkdir Prac8
root@debian:/home/joysi/Proyectos_RoR# cd Prac8
root@debian:/home/joysi/Proyectos_RoR/Prac8# ls
root@debian:/home/joysi/Proyectos_RoR/Prac8# rails new App_RoR -T
create
create README.md
create Rakefile
create .ruby-version
create config.ru
create .gitignore
create .gitattributes
create Gemfile
```

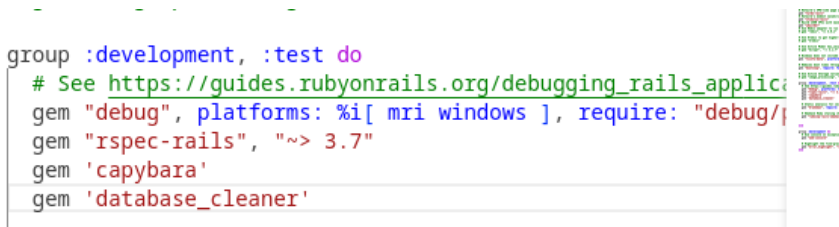
1.1. Agregar las gemas que se utilizarán en el proyecto, dentro grupo development, test.



```
Archivo Editar Selección Ver Ir Ejecutar Terminal Ayuda
Gemfile x
home > joysi > Proyectos_RoR > Prac8 > App_RoR > Gemfile
35 # gem "image_processing", "~> 1.2"
36
37 group :development, :test do
38   # See https://guides.rubyonrails.org/debugging_rails_applications.html#debugging-with-the-console
39   gem "debug", platforms: %i[ mri windows ], require: "debug/
40
41   # Static analysis for security vulnerabilities [https://brakeman.org]
42   gem "brakeman", require: false
43
44   # Omakase Ruby styling [https://github.com/rails/rubocop-rails]
45   gem "rubocop-rails-omakase", require: false
46
47   gem "rspec-rails", "~> 3.7"
48   gem 'capybara'
49   gem 'database_cleaner'
50 end
51
52
53 group :development do
54   # Use console on exceptions pages [https://github.com/rails/rails]
55   gem "web-console"
56
57   # Highlight the fine-grained location where an error occurred
58   gem "error_highlight", "~> 0.4.0", platforms: [:ruby]
59 end
60
```

1.2.

1.3. El grupo development, test quedará como se muestra en la siguiente figura



```
group :development, :test do
  # See https://guides.rubyonrails.org/debugging_rails_applications.html#debugging-with-the-console
  gem "debug", platforms: %i[ mri windows ], require: "debug/
  gem "rspec-rails", "~> 3.7"
  gem 'capybara'
  gem 'database_cleaner'
```

1.4. Ejecutar el siguiente comando en el terminal para instalar las gemas.

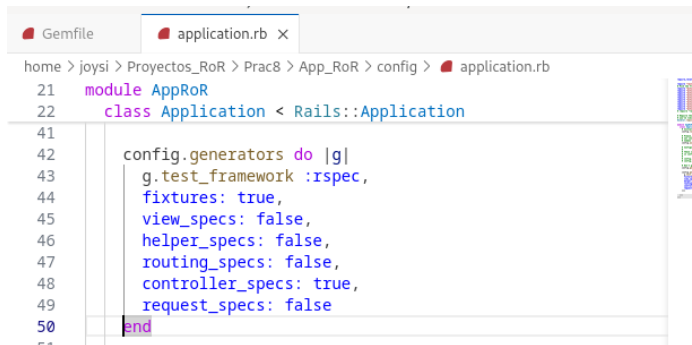
```
root@debian:/home/joysi/Proyectos_RoR/Prac8/App_RoR# bundle install
Don't run Bundler as root. Installing your bundle as root will break this application for all non-root users on this machine.
Fetching gem metadata from https://rubygems.org/.....
Resolving dependencies...
Fetching database_cleaner-core 2.0.1
Fetching rspec-support 3.9.4
Installing database_cleaner-core 2.0.1
Fetching database_cleaner-active_record 2.2.0
Installing rspec-support 3.9.4
Fetching rspec-core 3.9.3
Fetching rspec-expectations 3.9.4
Fetching rspec-mocks 3.9.1
Installing database_cleaner-active_record 2.2.0
Fetching database_cleaner 2.0.2
```

1.4. Ejecutar el siguiente comando para crear los directorios que rspec necesita para trabajar.

```
root@debian:/home/joysi/Proyectos_RoR/Prac8/App_RoR# rails g rspec:install
create .rspec
create spec
create spec/spec_helper.rb
create spec/rails_helper.rb
```

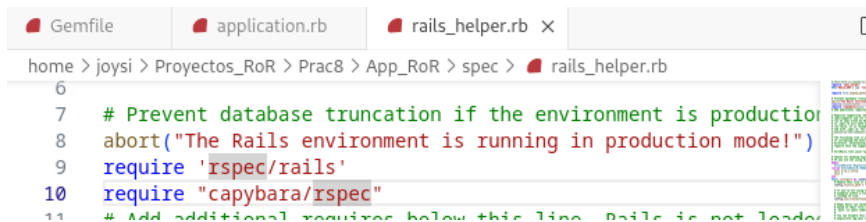
2. Configuración de Rspec.

2.1. Abrir el archivo config/application.rb y agregar el siguiente código dentro de la clase, en el mismo archivo.



```
Gemfile application.rb x
home > joysi > Proyectos_RoR > Prac8 > App_RoR > config > application.rb
21 module AppRoR
22   class Application < Rails::Application
41
42     config.generators do |g|
43       g.test_framework :rspec,
44         fixtures: true,
45         view_specs: false,
46         helper_specs: false,
47         routing_specs: false,
48         controller_specs: true,
49         request_specs: false
50     end
```

2.2. Abrir el archivo rails_helper.rb y agregar debajo de la línea require 'rspec/rails'.



```
Gemfile application.rb rails_helper.rb x
home > joysi > Proyectos_RoR > Prac8 > App_RoR > spec > rails_helper.rb
6
7 # Prevent database truncation if the environment is production
8 abort("The Rails environment is running in production mode!")
9 require 'rspec/rails'
10 require "capybara/rspec"
11 # Add additional requires below this line. Rails is not loaded
```

```
root@debian: /home/joysi/Proyectos_RoR/Prac8/App_RoR# rspec
No examples found.

Finished in 0.00041 seconds (files took 0.75928 seconds to load)
0 examples, 0 failures
```

```
root@debian:/home/joysi/Proyectos/RoR/Prac8/App_RoR# rails generate controller StaticPages home help
create app/controllers/static_pages_controller.rb
route get "static_pages/home"
route get "static_pages/help"
invoke erb
create app/views/static_pages
create app/views/static_pages/home.html.erb
create app/views/static_pages/help.html.erb
invoke rspec
create spec/controllers/static_pages_controller_spec.rb
invoke helper
create app/helpers/static_pages_helper.rb
invoke rspec
```

```

Gemfile application.rb rails_helper.rb routes.rb
home > jaysi > Projectos_RoR > Prac8 > App_RoR > config > routes.rb
1 Rails.application.routes.draw do
2   get "static_pages/home"
3   get "static_pages/help"
4   # Define your application routes per the DSL in https://guides.rubyonrails.org/routing.html
5
6   # Reveal health status on /up that returns 200 if the app bo
7   # Can be used by load balancers and uptime monitors to veri
8   get "up" => "rails/health#show", as: :rails_health_check
9
10  # Render dynamic PWA files from app/views/pwa/*
11  get "service-worker" => "rails/pwa#service_worker", as: :pwa
12  get "manifest" => "rails/pwa#manifest", as: :pwa_manifest
13
14  # Defines the root path route ("/")
15  # root "posts#index"
16 end
17

```

```

$ ls static_pages
help.html.erb  home.html.erb
$ cat static_pages/help.html.erb
<h1>Help</h1>
$ cat static_pages/home.html.erb
<h1>Home</h1>

```

4. Modificar las vistas.

4.1. Agregar al archivo `home.html.erb`.

```
home > joysi > Proyectos_RoR > Prac8 > App_RoR > app > views > static_pages > <> home.html.erb
1 <h1>StaticPages#home</h1>
2 <p>Find me in app/views/static_pages/home.html.erb</p>
3
4 <h1>Sample App</h1>
5 <p>
6   This is the home page for the
7   <a href="http://www.railstutorial.org/">Ruby on Rails Tutorial
8   sample application.
9 </p>
```

4.2. Modificar el archivo `help.html.erb`.

```
home > joysi > Proyectos_RoR > Prac8 > App_RoR > app > views > static_pages > <> help.html.erb
1 <h1>StaticPages#help</h1>
2 <p>Find me in app/views/static_pages/help.html.erb</p>
3 <h1>Help</h1>
4 <p>
5   Get help on the Ruby on Rails Tutorial at the
6   <a href="http://www.railstutorial.org/help">Rails Tutorial he
7   To get help on this sample app, see the
8   <a href="http://www.railstutorial.org/book"><em>Ruby on Rail
9   Tutorial</em>
10  <em>book</a>.
11 </p>
```

5. Hacer testing con rspec.

5.1. El primer paso será ejecutar el comando `db:migrate` en el terminal para crear el esquema de pruebas con el que se ejecutarán los tests.

```
root@debian:/home/joysi/Proyectos_RoR/Prac8/App_RoR# rails db:migrate
```

5.2. Probar hacer testing escribiendo en el terminal el comando.

```
root@debian:/home/joysi/Proyectos_RoR/Prac8/App_RoR# bundle exec rspec spec/controllers/static_pages_controller_spec.rb
..
```

Deprecation Warnings:

Rails 7.1 has deprecated the singular `fixture_path` in favour of an array. You should migrate to plural:

If you need more of the backtrace for any of these deprecations to identify where to make the necessary changes, you can configure `'config.raise_errors_for_deprecations!'`, and it will turn the deprecation warnings into errors, giving you the full backtrace.

1 deprecation warning total

Finished in 0.24699 seconds (files took 3.08 seconds to load)
2 examples, 0 failures

5.3. Agregar siguiente código dentro del archivo `static_pages_controller_spec.rb` del directorio `spec/controllers/`.

```
home > joysi > Proyectos_RoR > Prac8 > App_RoR > spec > controllers > static_pages_controller
3 RSpec.describe StaticPagesController, type: :controller do
18
19   describe "GET #about" do
20     it "returns http success" do
21       get :about
22       expect(response).to have_http_status(:success)
23     end
24   end
25
26 end
27
```

5.4. Ejecutar el comando rspec y ver que muestra el test en rojo.

```
root@debian:/home/joysi/Proyectos_RoR/Prac8/App_RoR# rspec spec/controllers/static_pages_controller_spec.rb
..F

Failures:

  1) StaticPagesController GET #about returns http success
     Failure/Error: get :about

     ActionController::UrlGenerationError:
       No route matches {:action=>"about", :controller=>"static_pages"}
     # ./spec/controllers/static_pages_controller_spec.rb:21:in `block (3 levels) in <top (required)>'

Deprecation Warnings:

Rails 7.1 has deprecated the singular fixture_path in favour of an array. You should migrate to plural:

If you need more of the backtrace for any of these deprecations to identify where to make the necessary changes, you can configure
```

5.5. Editar el archivo routes.rb y agregar lo siguiente.

```
home > joysi > Proyectos_RoR > Prac8 > App_RoR > config > routes.rb
1 Rails.application.routes.draw do
2   get "static_pages/home"
3   get "static_pages/help"
4   get "static_pages/about"
5   # Define your application routes per the DSL in https://
```

5.6. Ejecutar el test de nuevo.

El mensaje que muestra, es debido a que no existe la acción about que intenta alcanzar el método get.

```
root@debian:/home/joysi/Proyectos_RoR/Prac8/App_RoR# rspec spec/controllers/static_pages_controller_spec.rb
..F

Failures:

  1) StaticPagesController GET #about returns http success
     Failure/Error: get :about

     ActionController::ActionNotFound:
       The action 'about' could not be found for StaticPagesController
     # ./spec/controllers/static_pages_controller_spec.rb:21:in `block (3 levels) in <top (required)>'

Deprecation Warnings:
```

5.7. Agregar el método en el archivo controllers/static_pages_controller.rb y luego ejecutar el test.

```
home > joysi > Proyectos_RoR > Prac8 > App_RoR > app > controllers > static_pages_controller.rb
1 class StaticPagesController < ApplicationController
2   def home
3   end
4   def about
5   end
6   def help
7   end
8   def help
9   end
10  end
11

static_pages_controller_spec.rb
..F

Failures:

  1) StaticPagesController GET #about returns http success
     Failure/Error: get :about

     ActionController::MissingTemplate:
       StaticPagesController#about is missing a template for request formats: text/html
     # ./spec/controllers/static_pages_controller_spec.rb:21:in `block (3 levels) in <top (required)>'

Deprecation Warnings:

Rails 7.1 has deprecated the singular fixture_path in favour of an array. You should migrate to plural:

If you need more of the backtrace for any of these deprecations to identify where to make the necessary changes, you can configure 'config.raise_errors_for_deprecations!', and it will turn the
```

5.8. Crear una vista para ese método. Crear el archivo about.html.erb en el directorio app/views/static_pages/ y agregar el código html.

```
root@debian:/home/joysi/Proyectos_RoR/Prac8/App_RoR# ls
app      config.ru  Gemfile    log         README.md  tmp
bin      db         Gemfile.lock public spec      vendor
config  Dockerfile lib         Rakefile   storage
root@debian:/home/joysi/Proyectos_RoR/Prac8/App_RoR# cd app
root@debian:/home/joysi/Proyectos_RoR/Prac8/App_RoR/app# ls
assets  controllers  javascript  mailers  views
channels  helpers      jobs        models
root@debian:/home/joysi/Proyectos_RoR/Prac8/App_RoR/app# cd views
root@debian:/home/joysi/Proyectos_RoR/Prac8/App_RoR/app/views# ls
layouts  pwa  static_pages
root@debian:/home/joysi/Proyectos_RoR/Prac8/App_RoR/app/views# cd static_pages
root@debian:/home/joysi/Proyectos_RoR/Prac8/App_RoR/app/views/static_pages# ls
help.html.erb  home.html.erb
root@debian:/home/joysi/Proyectos_RoR/Prac8/App_RoR/app/views/static_pages# touch about.html.erb
root@debian:/home/joysi/Proyectos_RoR/Prac8/App_RoR/app/views/static_pages# ls
about.html.erb  help.html.erb  home.html.erb
root@debian:/home/joysi/Proyectos_RoR/Prac8/App_RoR/app/views/static_pages#
```

```
home > joysi > Proyectos_RoR > Prac8 > App_RoR > app > views > static_pages > <> about.html.erb
1  <h1>About</h1>
2
3  <p>
4  The <a href="http://www.railstutorial.org/"><em>Ruby on Rails</em> Tutorial</em></a> is a
5  <a href="http://www.railstutorial.org/book">book</a> and
6  <a href="http://screencasts.railstutorial.org/">screencast</a> series
7  to teach web development with
8  <a href="http://rubyonrails.org/">Ruby on Rails</a>.
9  This is the sample application for the tutorial.
10 </p>
```

5.9. Para comprobar que todo funciona, ejecutar el test nuevamente.

```
root@debian:/home/joysi/Proyectos_RoR/Prac8/App_RoR# rspec spec/controllers/static_pages_controller_spec.rb
...

Deprecation Warnings:

Rails 7.1 has deprecated the singular fixture_path in favour of an array. You should migrate to plural:

If you need more of the backtrace for any of these deprecations to identify where to make the necessary changes, you can configure 'config.raise_errors_for_deprecations!', and it will turn the deprecation warnings into errors, giving you the full backtrace.

1 deprecation warning total

Finished in 0.10071 seconds (files took 1.4 seconds to load)
3 examples, 0 failures
```

6. Configurar el título de la página.

6.1. Para que el título de la página cambie por cada una de las vistas a la que se accede en la aplicación, copiar el código en el archivo app/helpers/application_helper.rb dentro del módulo.]

```
home > joysi > Proyectos_RoR > Prac8 > App_RoR > app > helpers > application_helper.rb
1  module ApplicationHelper
2    def full_title(page_title = '')
3      base_title = "Rails App"
4      if page_title.empty?
5        base_title
6      else
7        page_title + " | " + base_title
8      end
9    end
10 end
```

6.2. En el archivo app/views/layouts/application.html.erb modificar la línea de la etiqueta tittle por la siguiente.

```
home > joysi > Proyectos_RoR > Prac8 > App_RoR > app > views > layouts > <> application.html.erb
1 <!DOCTYPE html>
2 <html>
3   <head>
4     <title><%= full_title(yield(:title)) %></title>
5     <meta name="viewport" content="width=device-width,initial-scale=1">
6     <meta name="apple-mobile-web-app-capable" content="yes">
7     <%= csrf_meta_tags %>
8     <%= csp_meta_tag %>
9
```

7. Modificar los archivos de las vistas.

7.1. En el archivo help.html.erb, agregar la siguiente línea en la parte superior del código.

```
home > joysi > Proyectos_RoR > Prac8 > App_RoR > app > views > static_pages > <> help.html.erb
1 <%= provide (:title, "Help") %>
```

7.2. En el archivo about.html.erb, agregar la siguiente línea en la parte superior de todo el código.

```
home > joysi > Proyectos_RoR > Prac8 > App_RoR > app > views > static_pages > <> about.html.erb
1 <%= provide (:title, "About") %>
```

7.3. Navegar en la dirección http://localhost:3000/static_pages/about y verificar que cambia el título de la página.

```
<  -  ↻  localhost:3000/static_pages/about
```

About

The [Ruby on Rails Tutorial](#) is a [book](#) and [screencast series](#) to teach web development with [Ruby on Rails](#). This is the sample applicati

7.4. Navegar en la dirección http://localhost:3000/static_pages/help y verificar que cambia el título de la página.

```
<  -  ↻  localhost:3000/static_pages/help
```

StaticPages#help

Find me in app/views/static_pages/help.html.erb

Help

Get help on the Ruby on Rails Tutorial at the [Rails Tutorial help page](#). To get help on this sample app, see tl

Ejercicios propuestos para ser entregados al docente

2. Copiar el código del recuadro, en el archivo static_pages_controller_spec.rb del directorio spec/controllers/.

```
home > joysi > Proyectos_RoR > Prac8 > App_RoR > spec > controllers > static_pages_controller_spec.rb
26 describe "GET #contact" do
27   it "returns http success" do
28     get :contact
29     expect(response).to have_http_status(:success)
30   end
31 end
```

3. Ejecutar el test y deberá mostrar los siguientes mensajes.

```
root@debian:/home/joysi/Proyectos_RoR/Prac8/App_RoR# rspec spec/controllers/static_pages_controller_spec.rb
...F
```

Failures:

```
1) StaticPagesController GET #contact returns http success
   Failure/Error: get :contact

   ActionController::UrlGenerationError:
     No route matches {:action=>"contact", :controller=>"static_pages"}
   # ./spec/controllers/static_pages_controller_spec.rb:28:in `block (3 levels) in <top (required)>'
```

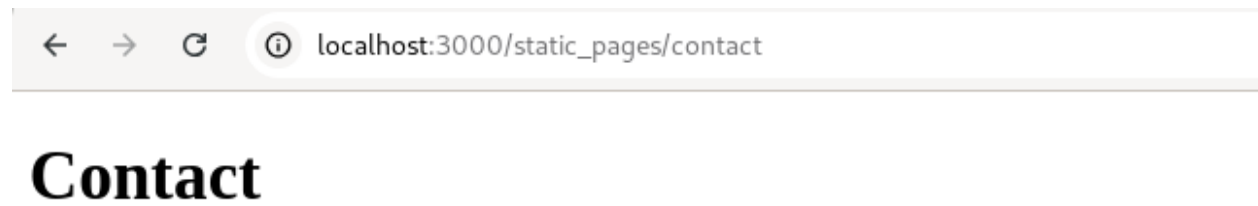
4. Realizar los mismos pasos que realizo con la página about y hacer que el test pase.

```
home > joysi > Proyectos_RoR > Prac8 > App_RoR > config > routes.rb
1 Rails.application.routes.draw do
2   get "static_pages/home"
3   get "static_pages/help"
4   get 'static_pages/about'
5   get 'static_pages/contact'
6   # Define your application routes per the DSL in https://guides.rubyonrails.org/routing.html
home > joysi > Proyectos_RoR > Prac8 > App_RoR > app > controllers > static_pages_controller.rb
1 class StaticPagesController < ApplicationController
2   /
3   def contact
4   end
5   def help
6   end
7   end
```

```
root@debian:/home/joysi/Proyectos_RoR/Prac8/App_RoR/app/views/static_pages# touch contact.html.erb
root@debian:/home/joysi/Proyectos_RoR/Prac8/App_RoR/app/views/static_pages# ls
about.html.erb contact.html.erb help.html.erb home.html.erb
```

```
home > joysi > Proyectos_RoR > Prac8 > App_RoR > app > views > static_pages > contact.html.erb
1 <h1>Contact</h1>
2 <p>
3   The <a href="http://www.railstutorial.org/"><em>Ruby on Rails</em> Tutorial</em></a> is a
4   <a href="http://www.railstutorial.org/book">book</a> and
5   <a href="http://screencasts.railstutorial.org">screencast</a> series
6   to teach web development with
7   <a href="http://rubyonrails.org">Ruby on Rails</a>
8   This is the sample application for the tutorial.
9 </p>
```

5. Navegar en la dirección http://localhost:3000/static_pages/contact.



The [Ruby on Rails Tutorial](#) is a [book](#) and [screencast series](#) to teach web development with

6. Configurar el archivo config/routes.rb, para que la página de inicio del proyecto sea el archivo home que se encuentra dentro del directorio static_pages, realizar la prueba navegando en la dirección localhost:3000, como se muestra en la figura 105.

```
home > joysi > Proyectos_RoR > Prac8 > App_RoR > app > views > static_pages > <> home.html.erb
1  <h1>StaticPages#home</h1>
2  <p>Find me in app/views/static_pages/home.html.erb</p>
3
```

```
home > joysi > Proyectos_RoR > Prac8 > App_RoR > config > routes.rb
1  Rails.application.routes.draw do
12  # Render dynamic PWA files from app/views/pwa/
13  get "service-worker" => "rails/pwa#service_worker", as: :pwa_service_worker
14  get "manifest" => "rails/pwa#manifest", as: :pwa_manifest
15
16  # Defines the root path route ("/")
17  root "static_pages#index"
18 end
19
```

