

UNIVERSIDAD NACIONAL AUTÓNOMA DE NICARAGUA

UNAN-León.



Facultad de Ciencias y Tecnología

Carrera: Ingeniería en Telemática.

Componente: Software Como Un Servicio.

Grupo: #2.

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Nombre:

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Fecha: 25/09/2024.

¡A la libertad por la universidad!

1. Crear un nuevo proyecto Rails.

```
joysi@debian: ~/p_RoR/pract7
joysi@debian:~/p_RoR/pract7$ su
Contraseña:
root@debian:/home/joysi/p_RoR/pract7# rails new App_mysql -T
      create
      create  README.md
      create  Rakefile
      create  .ruby-version
      create  config.ru
      create  .gitignore
      create  .gitattributes
      create  Gemfile
      run  git init -b main from "."
Iniciado repositorio Git vacío en /home/joysi/p_RoR/pract7/App_mysql/.git/
      create  app
      create  app/assets/config/manifest.js
      create  app/assets/stylesheets/application.css
      create  app/channels/application_cable/channel.rb
      create  app/channels/application_cable/connection.rb
      create  app/controllers/application_controller.rb
      create  app/helpers/application_helper.rb
      create  app/jobs/application_job.rb
      create  app/mailers/application_mailer.rb
      create  app/models/application_record.rb
      create  app/views/layouts/application.html.erb
      create  database.yml
```

2. Preparar el escenario de Test.

-Abrir el archivo Gemfile y agregar las siguientes líneas al grupo development, test.

```
GNU nano 7.2 Gemfile
gem "tzinfo-data", platforms: %i[ mswin mswin64 mingw x64_mingw jruby ]

# Reduces boot times through caching; required in config/boot.rb
gem "bootsnap", require: false

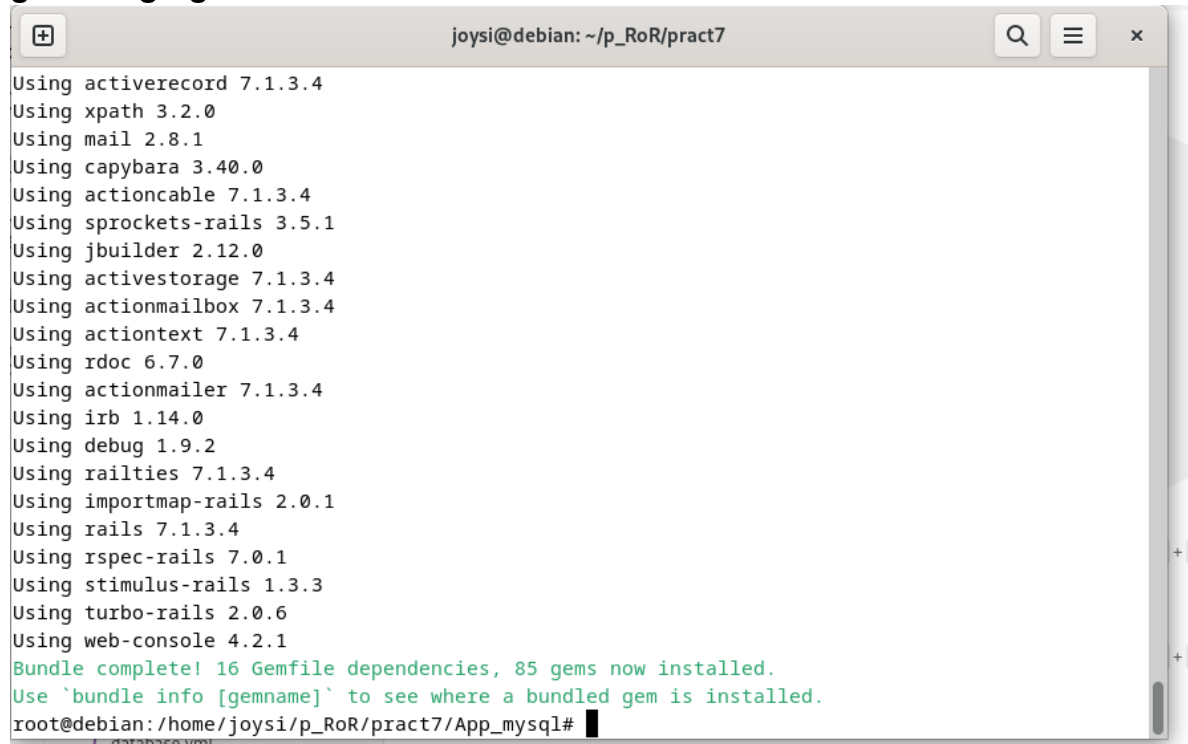
# Use Active Storage variants [https://guides.rubyonrails.org/active_storage_overview.html#tr]
# gem "image_processing", "~> 1.2"

group :development, :test do
  # See https://guides.rubyonrails.org/debugging_rails_applications.html#debugging-with-the-de
  gem "debug", platforms: %i[ mri mswin mswin64 mingw x64_mingw ]
  gem 'rspec-rails'
  gem 'shoulda-matchers'
  gem 'capybara'
end

group :development do
  # Use console on exceptions pages [https://github.com/rails/web-console]
  gem "web-console"

[ 67 líneas escritas ]
^G Ayuda      ^O Guardar    ^W Buscar     ^K Cortar     ^T Ejecutar   ^C Ubicación
^X Salir      ^R Leer fich. ^\ Reemplazar ^U Pegar      ^J Justificar ^_ Ir a línea
```

3. **Ejecutar el siguiente el comando en el terminal, para instalar las gemas agregadas anteriormente.**



```
joysi@debian: ~/p_RoR/pract7
Using activerecord 7.1.3.4
Using xpath 3.2.0
Using mail 2.8.1
Using capybara 3.40.0
Using actioncable 7.1.3.4
Using sprockets-rails 3.5.1
Using jbuilder 2.12.0
Using activestorage 7.1.3.4
Using actionmailbox 7.1.3.4
Using actiontext 7.1.3.4
Using rdoc 6.7.0
Using actionmailer 7.1.3.4
Using irb 1.14.0
Using debug 1.9.2
Using railties 7.1.3.4
Using importmap-rails 2.0.1
Using rails 7.1.3.4
Using rspec-rails 7.0.1
Using stimulus-rails 1.3.3
Using turbo-rails 2.0.6
Using web-console 4.2.1
Bundle complete! 16 Gemfile dependencies, 85 gems now installed.
Use `bundle info [gemname]` to see where a bundled gem is installed.
root@debian: /home/joysi/p_RoR/pract7/App_mysql#
```

4. **Ejecutar el siguiente comando en el terminal, para crear la base de datos.ra**

```
root@debian: /home/joysi/p_RoR/pract7/App_mysql# rake db:create:all
Database 'storage/development.sqlite3' already exists
Database 'storage/test.sqlite3' already exists
Database 'storage/production.sqlite3' already exists
```

5. **Ejecutar el comando en el terminal, para generar los archivos de rspec.**

```
root@debian: /home/joysi/p_RoR/pract7/App_mysql# rails g rspec:install
create .rspec
create spec
create spec/spec_helper.rb
create spec/rails_helper.rb
root@debian: /home/joysi/p_RoR/pract7/App_mysql#
```

6. **Como parte de la configuración hay que agregar las siguientes líneas dentro del archivo `spec/rails_helper.rb` que fue generado anteriormente.**

```
home > joysi > p_RoR > pract7 > App_mysql > spec > rails_helper.rb
1  # This file is copied to spec/ when you run 'rails generate rspec
2  require 'spec_helper'
3  ENV['RAILS_ENV'] ||= 'test'
4  require_relative '../config/environment'
5  # Prevent database truncation if the environment is production
6  abort("The Rails environment is running in production mode!") if
7  # Uncomment the line below in case you have '--require rails_hel
8  # that will avoid rails generators crashing because migrations h
9  # return unless Rails.env.test?
10 require 'rspec/rails'
11 require "capybara/rspec"
12 require 'shoulda/matchers'
13 # Add additional requires below this line. Rails is not loaded u
14
```

7. **Como en esta guía solo se harán test para los modelos. Abrir el archivo `Application.rb` que está dentro del directorio `config` y agregar el siguiente código dentro de la clase `applications`.**

```
module AppMySQL
  class Application < Rails::Application
    # Initialize configuration defaults for originally ge
    config.generators do |g|
      g.test_framework :rspec,
        :fixtures => true,
        :view_specs => false,
        :helper_specs => false,
        :routing_specs => false,
        :controller_specs => false,
        :request_specs => false
    end
    config.load_defaults 7.1
  end
end
```

8. **Por ultimo solo queda escribir en siguiente código en el archivo `/spec/rails_helper.rb` para poder trabajar con la gema `shoulda-matcher` al momento de crear los tests. Agregarlo al final de todo el código que contiene el archivo.**

```
Shoulda::Matchers.configure do |config|
  config.integrate do |with|
    #Choose a test framework:
    with.test_framework :rspec
    with.library :rails
  end
end
```

9. **Abrir el archivo Gemfile y agregar la gema 'mysql2'.**

```
joysi@debian: ~/p_RoR/pract7
GNU nano 7.2 Gemfile *
# gem "kredis"

# Use Active Model has_secure_password [https://guides.rubyonrails.org/active_m
# gem "bcrypt", "~> 3.1.7"

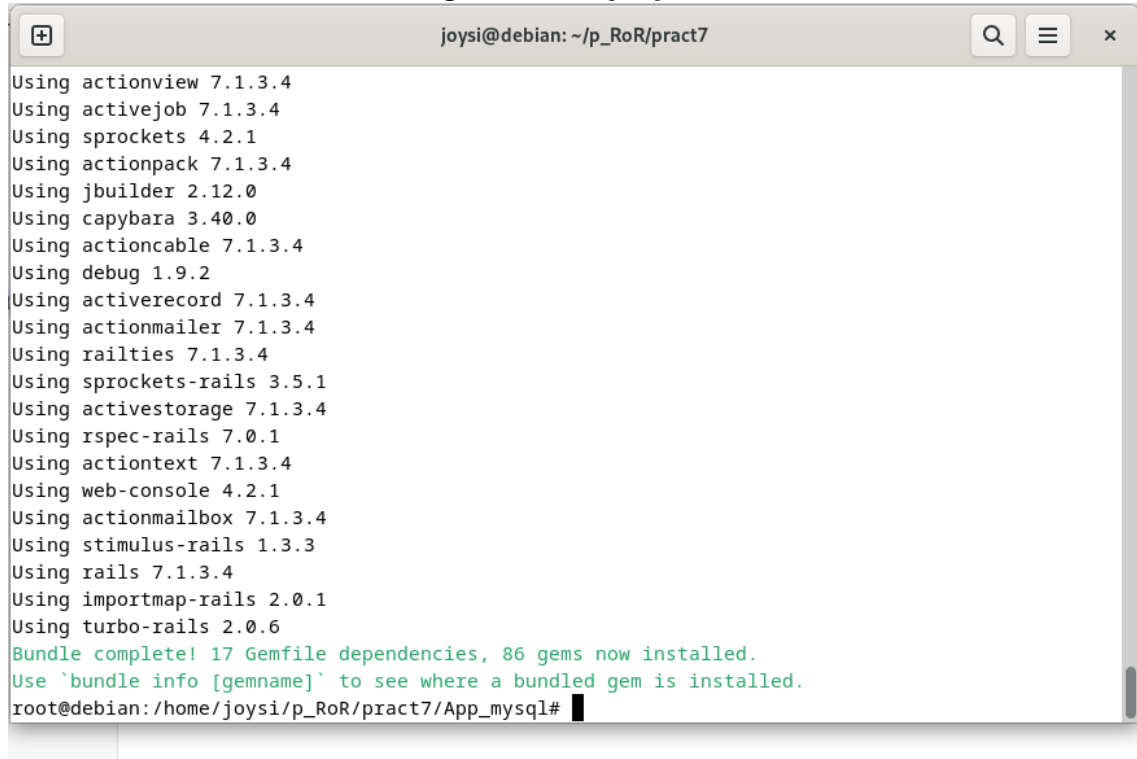
# Windows does not include zoneinfo files, so bundle the tzinfo-data gem
gem "tzinfo-data", platforms: %i[ mswin mswin64 mingw x64_mingw jruby ]

# Reduces boot times through caching; required in config/boot.rb
gem "bootsnap", require: false

# Use Active Storage variants [https://guides.rubyonrails.org/active_storage_ov
# gem "image_processing", "~> 1.2"
gem 'mysql2'
group :development, :test do
  # See https://guides.rubyonrails.org/debugging_rails_applications.html#debugg
  gem "debug", platforms: %i[ mri mswin mswin64 mingw x64_mingw ]
gem 'rspec-rails'
gem 'shoulda-matchers'
gem 'capybara'

^G Ayuda      ^O Guardar    ^W Buscar     ^K Cortar     ^T Ejecutar   ^C UI
^X Salir      ^R Leer fich. ^\ Reemplazar ^U Pegar      ^J Justificar ^/ I:
```

10. **Desde el terminal instalar la gema de mysql.**



```
joysi@debian: ~/p_RoR/pract7
Using actionview 7.1.3.4
Using activejob 7.1.3.4
Using sprockets 4.2.1
Using actionpack 7.1.3.4
Using jbuilder 2.12.0
Using capybara 3.40.0
Using actioncable 7.1.3.4
Using debug 1.9.2
Using activerecord 7.1.3.4
Using actionmailer 7.1.3.4
Using railties 7.1.3.4
Using sprockets-rails 3.5.1
Using activestorage 7.1.3.4
Using rspec-rails 7.0.1
Using actiontext 7.1.3.4
Using web-console 4.2.1
Using actionmailbox 7.1.3.4
Using stimulus-rails 1.3.3
Using rails 7.1.3.4
Using importmap-rails 2.0.1
Using turbo-rails 2.0.6
Bundle complete! 17 Gemfile dependencies, 86 gems now installed.
Use `bundle info [gemname]` to see where a bundled gem is installed.
root@debian: /home/joysi/p_RoR/pract7/App_mysql#
```

11. **Configurar la base de datos. Modificar el archivo config/database.yml para que quede de la siguiente manera, en la sección development.**

```
! database.yml x rails_helper.rb application.rb
home > joysi > p_RoR > pract7 > App_mysql > config > ! database.yml
1  default: &default
2  adapter: mysql2
3  pool: <%= ENV.fetch("RAILS_MAX_THREADS") { 5 } %>
4  timeout: 5000
5
6  development:
7    <<: *default
8    database: RoR
9    adapter: mysql2
10   username: joysi
11   password: tu_contraseña
12   host: 127.0.0.1
13   port: 3306
14
15  test:
16    <<: *default
17    database: RoR_test
18    username: joysi
19    password: tu_contraseña
20    host: 127.0.0.1
21    port: 3306
22
23  production:
24    <<: *default
25    database: storage/production.sqlite3
26
```

12. **Crear nueva base de datos.**

```
root@debian:/home/joysi/p_RoR/pract7/App_mysql# rake db:create
Created database 'RoR'
Created database 'RoR_test'
root@debian:/home/joysi/p_RoR/pract7/App_mysql#
```

13. **Migrar los datos, para ello la base de datos ya debe existir.**

```
root@debian:/home/joysi/p_RoR/pract7/App_mysql# rake db:migrate
root@debian:/home/joysi/p_RoR/pract7/App_mysql#
```

14..Para probar el comportamiento se está usando scaffold para generar código.

```
joysi@debian: ~/p_RoR/pract7
root@debian:/home/joysi/p_RoR/pract7/App_mysql# rake db:migrate
root@debian:/home/joysi/p_RoR/pract7/App_mysql# rails g scaffold User name:string password:string email:string programador:boolean birthday:date work_time:time
  invoke  active_record
  create  db/migrate/20240925212945_create_users.rb
  create  app/models/user.rb
  invoke  rspec
  create  spec/models/user_spec.rb
  invoke  resource_route
   route  resources :users
  invoke  scaffold_controller
  create  app/controllers/users_controller.rb
  invoke  erb
  create  app/views/users
  create  app/views/users/index.html.erb
  create  app/views/users/edit.html.erb
  create  app/views/users/show.html.erb
  create  app/views/users/new.html.erb
  create  app/views/users/_form.html.erb
  create  app/views/users/_user.html.erb
  invoke  resource_route
  invoke  rspec
  invoke  helper
  create  app/helpers/users_helper.rb
```

15..Migrar los datos generados con scaffold y la base de datos de los tests.

```
root@debian:/home/joysi/p_RoR/pract7/App_mysql# rails db:migrate RAILS_ENV=test
>== 20240925212945 CreateUsers: migrating =====
>-- create_table(:users)
>   -> 0.0644s
>== 20240925212945 CreateUsers: migrated (0.0646s) =====
```

16. Migrar los datos de la parte de desarrollo.

```
root@debian:/home/joysi/p_RoR/pract7/App_mysql# rails db:migrate RAILS_ENV=development
>== 20240925212945 CreateUsers: migrating =====
>-- create_table(:users)
>   -> 0.0677s
>== 20240925212945 CreateUsers: migrated (0.0680s) =====
```

17. Ir al directorio db y abrir el archivo schema.rb que se ha generado anteriormente, el cual contiene el esquema actual de la base de datos

donde se almacenarán los datos del usuario.

```
home > joysi > p_RoR > pract7 > App_mysql > db > schema.rb
1 # This file is auto-generated from the current state of the database. Instead
2 # of editing this file, please use the migrations feature of Active Record to
3 # incrementally modify your database, and then regenerate this schema definition.
4 #
5 # This file is the source Rails uses to define your schema when running `bin/rails
6 # db:schema:load`. When creating a new database, `bin/rails db:schema:load` tends to
7 # be faster and is potentially less error prone than running all of your
8 # migrations from scratch. Old migrations may fail to apply correctly if those
9 # migrations use external dependencies or application code.
10 #
11 # It's strongly recommended that you check this file into your version control system.
12
13 ActiveRecord::Schema[7.1].define(version: 2024_09_25_212945) do
14   create_table "users", charset: "utf8mb4", collation: "utf8mb4_general_ci", force: :cascade do |t|
15     t.string "name"
16     t.string "password"
17     t.string "email"
18     t.boolean "programador"
19     t.date "birthday"
20     t.time "work_time"
21     t.datetime "created_at", null: false
22     t.datetime "updated_at", null: false
23   end
24 end
```

18..Si observa, al momento de generar el código con scaffold, se ha creado un directorio models dentro del directorio spec, verificar como se muestra a continuación.

```
root@debian:/home/joysi/p_RoR/pract7/App_mysql# ls spec/
models rails_helper.rb spec_helper.rb
root@debian:/home/joysi/p_RoR/pract7/App_mysql#
```

19. Dentro de este directorio model se ha creado el archivo user_spec.rb que se necesita para poder hacer test a los modelos. Eliminar o comentar la siguiente línea, que no se ocupará.

```
home > joysi > p_RoR > pract7 > App_mysql > spec > models > user_spec.rb
1 require 'rails_helper'
2
3 RSpec.describe User, type: :model do
4   #pending "add some examples to (or delete) #{__FILE__}"
5 end
6
```

20. Agregar el código al archivo `spec/models/user_spec.rb` para hacer test al campo `name` y agregar validaciones.

```
Terminal Ayuda
! database.yml schema.rb user_spec.rb x rails_helper.rb application
home > joysi > p_RoR > pract7 > App_mysql > spec > models > user_spec.rb
1  require 'rails_helper'
2
3  RSpec.describe User, type: :model do
4    #pending "add some examples to (or delete) #{__FILE__}"
5    context "name" do
6      it {should validate_presence_of:name}
7      it {should validate_length_of(:name).is_at_most(15)}
8      it {should_not allow_value("123123").for(:name)}
9      it {should allow_value("abcd").for(:name)}
10
11  end
12
13
```

21. Ir al terminal y ejecutar el siguiente comando para hacer los tests.

```
joysi@debian: ~/p_RoR/pract7
Failures:

1) User name
   Failure/Error: it { should validate_presence_of:name }

     `name` is not available from within an example (e.g. an `it` block) or from constructs
that run in the scope of an example (e.g. `before`, `let`, etc). It is only available on an ex
ample group (e.g. a `describe` or `context` block).

      raise WrongScopeError,
        ^^^^^
      # ./spec/models/user_spec.rb:6:in `block (3 levels) in <top (required)>'

Finished in 0.32545 seconds (files took 2.9 seconds to load)
4 examples, 1 failure

Failed examples:

rspec ./spec/models/user_spec.rb:6 # User name

root@debian:/home/joysi/p_RoR/pract7/App_mysql# rspec spec/models/user_spec.rb
F...
```

22.. Ir al archivo `user.rb` que se encuentra en el directorio `app/model` y agregar el siguiente código dentro de la clase.

```
! database.yml  schema.rb  user_spec.rb  user.rb  202409
home > joysi > p_RoR > pract7 > App_mysql > app > models > user.rb
1  class User < ApplicationRecord
2    validates_presence_of :name, presence: true
3    validates_format_of :name, :with => /\A[a-zA-Z]+\z/
4    validates :name, length: {maximum: 15}, on: :create
5  end
6  |
```

23. Si ejecuta el comando de los tests nuevamente, podrá observar que ya no se muestran los mensajes en rojo.

```
Finished in 0.30578 seconds (files took 2.76 seconds to load)
4 examples, 0 failures

root@debian:/home/joysi/p_RoR/pract7/App_mysql#
```

24. Agregar siguiente código al archivo `spec/models/user_spec.rb` para hacer test al campo `password` del modelo.

```
11  context "Password" do
12    it { should validate_presence_of :password }
13    it { should validate_length_of(:password).is.equal_to(8) }
14  end
15  end
16
```

25. Al ejecutar el test, mostrará nuevamente los mensajes en color rojo.

```
joysi@debian: ~/p_RoR/pract7

2) User Password
  Failure/Error: it { should validate_length_of(:password).is.equal_to(8) }

  NoMethodError:
    undefined method `is' for #<Shoulda::Matchers::ActiveModel::ValidateLengthOfMatcher:0x0007f21085cfcf8 @ignore_interference_by_writer=#<Shoulda::Matchers::ActiveModel::Qualifiers::IgnoreInterferenceByWriter:0x0007f21085cfc80 @setting=:always, @changed=false>, @attribute=:password, @expects_strict=false, @subject=nil, @last_submatcher_run=nil, @expected_message=nil, @expects_custom_validation_message=false, @options={}, @short_message=nil, @long_message=nil>

    it { should validate_length_of(:password).is.equal_to(8) }
                                             ^^^
  # ./spec/models/user_spec.rb:13:in `block (3 levels) in <top (required)>'

Finished in 0.31009 seconds (files took 2.85 seconds to load)
2 examples, 2 failures

Failed examples:

rspec ./spec/models/user_spec.rb:12 # User Password
rspec ./spec/models/user_spec.rb:13 # User Password
```

26. Agregar las validaciones en el archivo app/model/user.rb, correspondientes para el campo password del modelo.

```
! database.yml  schema.rb  user_spec.rb  user.rb  X  20

home > joysi > p_RoR > pract7 > App_mysql > app > models > user.rb
1  class User < ApplicationRecord
2    validates_presence_of :name, presence: true
3    validates_format_of :name, :with => /\A[a-zA-Z]+\z/
4    validates :name, length: {maximum: 15}, on: :create
5
6    validates_presence_of :password, presence: true
7    validates_length_of :password, is: 8
8  end
9
```

27. 1Una vez escrito el código, volver a ejecutar el test para poder observar que ahora muestra el mensaje en verde, indicando que ha pasado los test a como se muestra en la siguiente figura.

```
root@debian:/home/joysi/p_RoR/pract7/App_mysql# rspec spec/models/user_spec.rb
.....

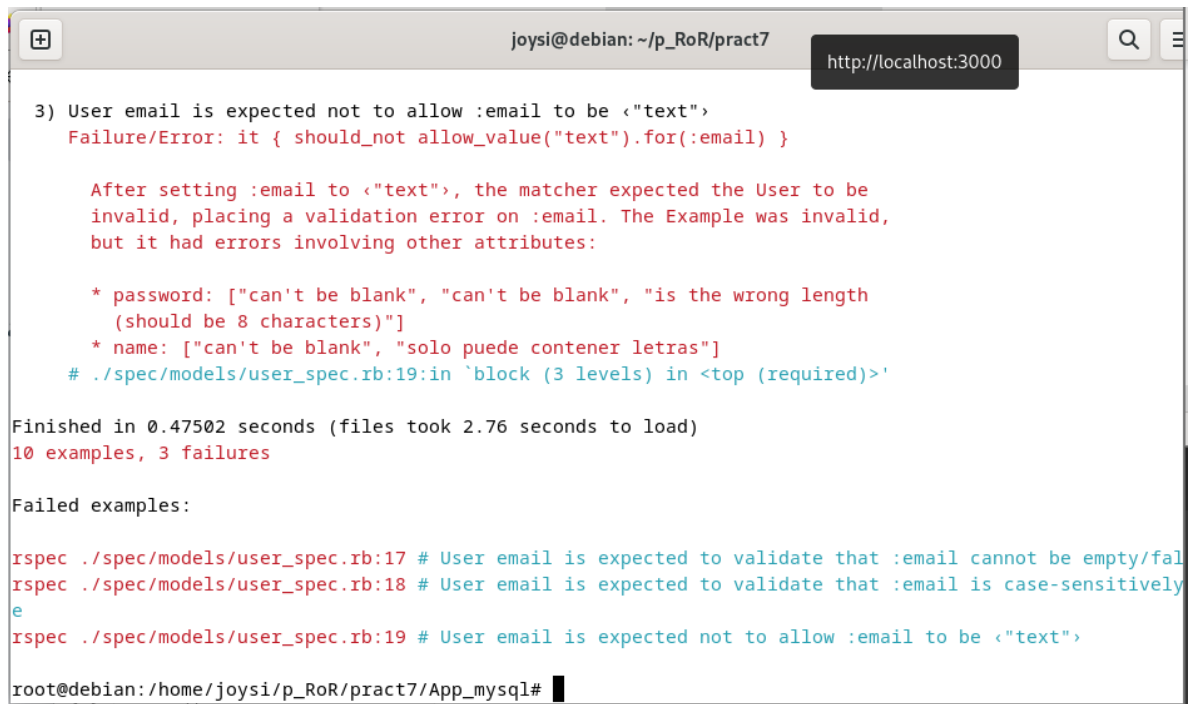
Finished in 0.30344 seconds (files took 2.94 seconds to load)
6 examples, 0 failures

root@debian:/home/joysi/p_RoR/pract7/App_mysql#
```

28..El ultimo test será para el campo email del modelo, agregar el código al archivo spec/models/user_spec.rb.

```
context "email" do
  it { should validate_presence_of :email }
  it { should validate_uniqueness_of :email }
  it { should_not allow_value("text").for(:email) }
  it { should allow_value("a@b.com").for(:email) }
end
end
```

29..Ejecutar el test en el terminal y mostrará los mensajes en rojo nuevamente



```
joysi@debian: ~/p_RoR/pract7 http://localhost:3000
3) User email is expected not to allow :email to be <"text">
   Failure/Error: it { should_not allow_value("text").for(:email) }

   After setting :email to <"text">, the matcher expected the User to be
   invalid, placing a validation error on :email. The Example was invalid,
   but it had errors involving other attributes:

   * password: ["can't be blank", "can't be blank", "is the wrong length
     (should be 8 characters)"]
   * name: ["can't be blank", "solo puede contener letras"]
   # ./spec/models/user_spec.rb:19:in `block (3 levels) in <top (required)>'

Finished in 0.47502 seconds (files took 2.76 seconds to load)
10 examples, 3 failures

Failed examples:

rspec ./spec/models/user_spec.rb:17 # User email is expected to validate that :email cannot be empty/fal
rspec ./spec/models/user_spec.rb:18 # User email is expected to validate that :email is case-sensitiv
e
rspec ./spec/models/user_spec.rb:19 # User email is expected not to allow :email to be <"text">

root@debian: /home/joysi/p_RoR/pract7/App_mysql#
```

30..Agregar las validaciones al modelo user en el archivo app/model/user.rb.

```
7 validates_presence_of :email, presence: true
8 validates_uniqueness_of :email
9 validates_format_of :email, with: /@/
10 end
11
```

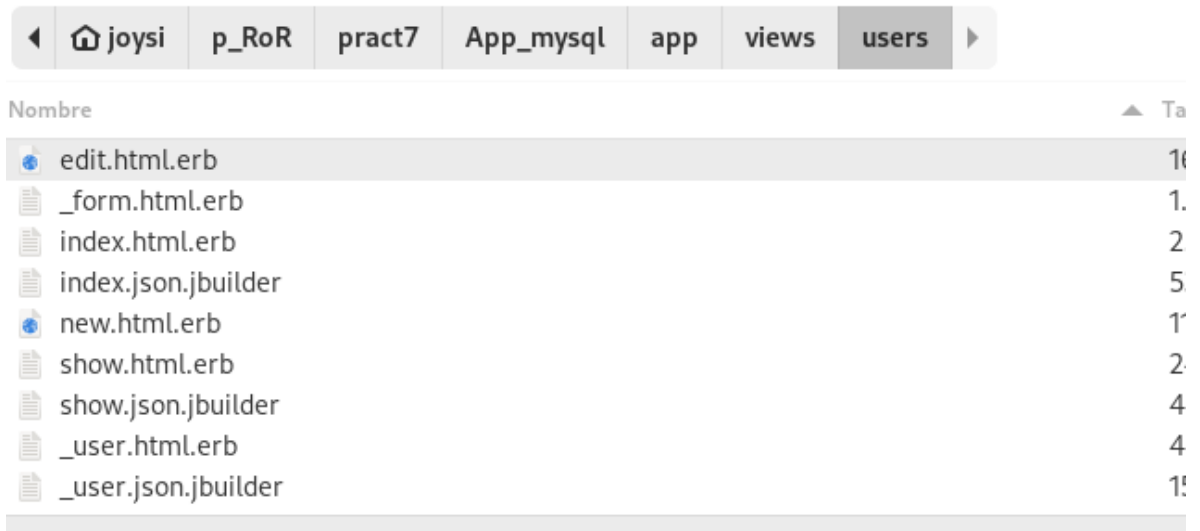
31. Ejecutar los tests y observar que finalmente todos los tests pasan y ya se han validado los campos del modelo user.

```
root@debian:/home/joysi/p_RoR/pract7/App_mysql# rspec spec/models/user_spec.rb
.....

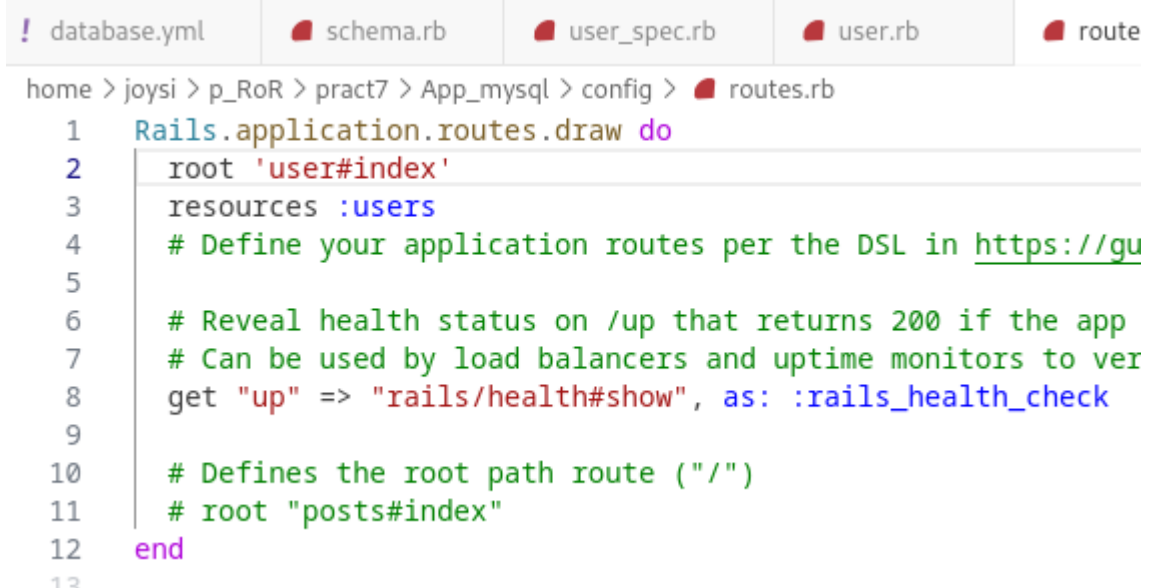
Finished in 0.51116 seconds (files took 2.81 seconds to load)
10 examples, 0 failures

root@debian:/home/joysi/p_RoR/pract7/App_mysql#
```

32. 1 Ir al directorio view y observar que existen todas las vistas necesarias para el correcto funcionamiento del modelo user.



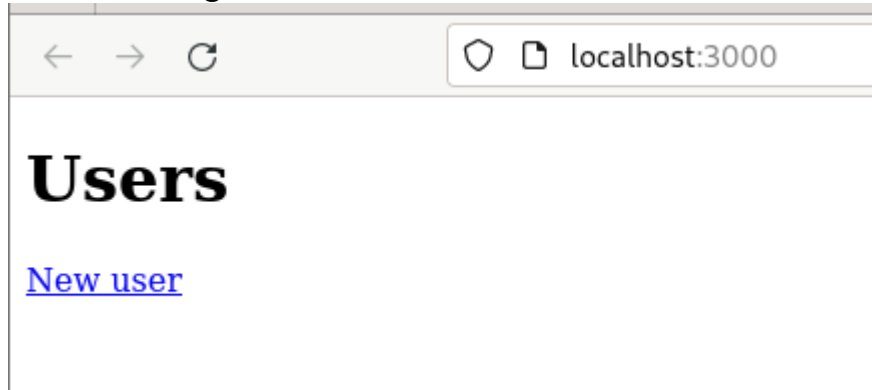
33. El siguiente paso es configurar el index de la aplicación, para eso ir al archivo config/routes.rb y escribir el código para el index sea la página principal del proyecto. El archivo routes quedará como se muestra en la figura 82.



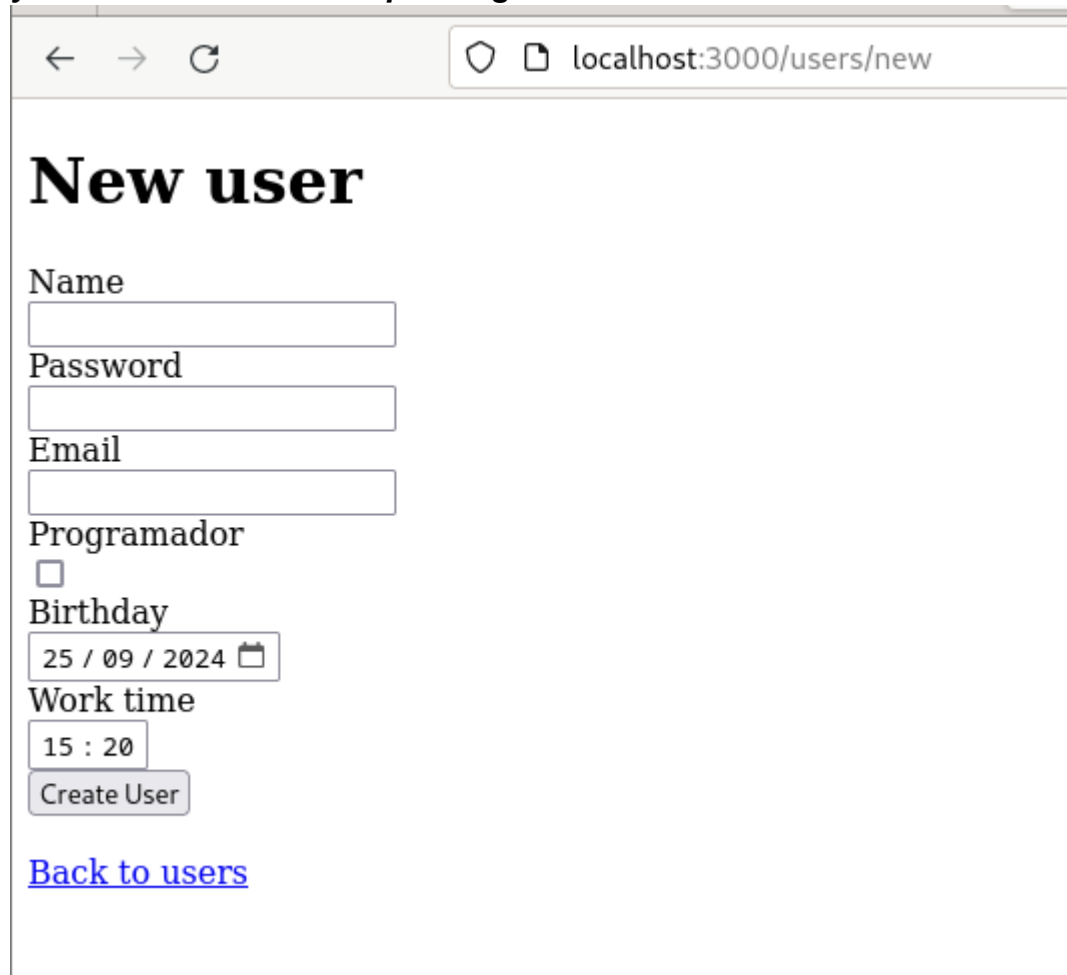
34..Para probar la aplicación, debe arrancar el servidor en el terminal, ejecutando el siguiente comando.

```
root@debian:/home/joysi/p_RoR/pract7/App_mysql# rails s
=> Booting Puma
=> Rails 7.1.3.4 application starting in development
=> Run `bin/rails server --help` for more startup options
Puma starting in single mode...
* Puma version: 6.4.2 (ruby 3.1.2-p20) ("The Eagle of Durango")
* Min threads: 5
* Max threads: 5
* Environment: development
* PID: 45461
* Listening on http://127.0.0.1:3000
* Listening on http://[::1]:3000
Use Ctrl-C to stop
```

35. Abrir el navegador en la dirección localhost:3000



36. Para crear nuevo usuario y agregar datos, presionar click en New User y mostrará el formulario para ingresar los datos.



The screenshot shows a web browser window with the address bar displaying 'localhost:3000/users/new'. The page title is 'New user'. The form contains the following elements:

- Name**: A text input field.
- Password**: A text input field.
- Email**: A text input field.
- Programador**: A checkbox.
- Birthday**: A date picker showing '25 / 09 / 2024'.
- Work time**: A time picker showing '15 : 20'.
- Create User**: A button.
- Back to users**: A blue hyperlink.

37. Una vez abierto el formulario, se podrá poner a prueba las validaciones que se agregaron anteriormente, si presiona el botón create user observará que muestra unos mensajes en relación a las validaciones de los campos del modelo user. Estos mensajes son

generador automáticamente por el framework.

New user

7 errors prohibited this user from being saved:

- Password can't be blank
- Name can't be blank
- Name solo puede contener letras
- Password can't be blank
- Password is the wrong length (should be 8 characters)
- Email can't be blank
- Email debe ser un correo electrónico válido

38. Al llenar los datos del formulario correctamente, ya permite guardar los datos



User was successfully created.

Name: Ross

Password:

Email: ross@gmail.com

Programador: true

Birthday: 2024-09-25

Work time: 2000-01-01 15:20:00 UTC

[Edit this user](#) | [Back to users](#)

[Destroy this user](#)

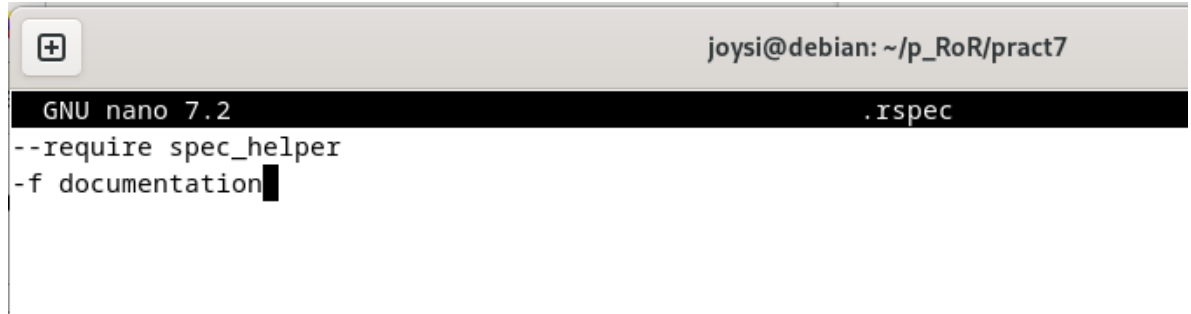
39. Verificar que se haya creado correctamente el usuario en mysql, abrir el phpmyadmin y hacer un select a la tabla user, de la base de datos en la que se está trabajando.

	id	name	password	email	programador	birthday	work_time
<input type="checkbox"/> Editar <input type="checkbox"/> Copiar <input type="checkbox"/> Borrar	1	Ross	NULL	ross@gmail.com	1	2024-09-25	15:20:00

40. Para hacer testing primero crear el directorio en donde se guardan los features.

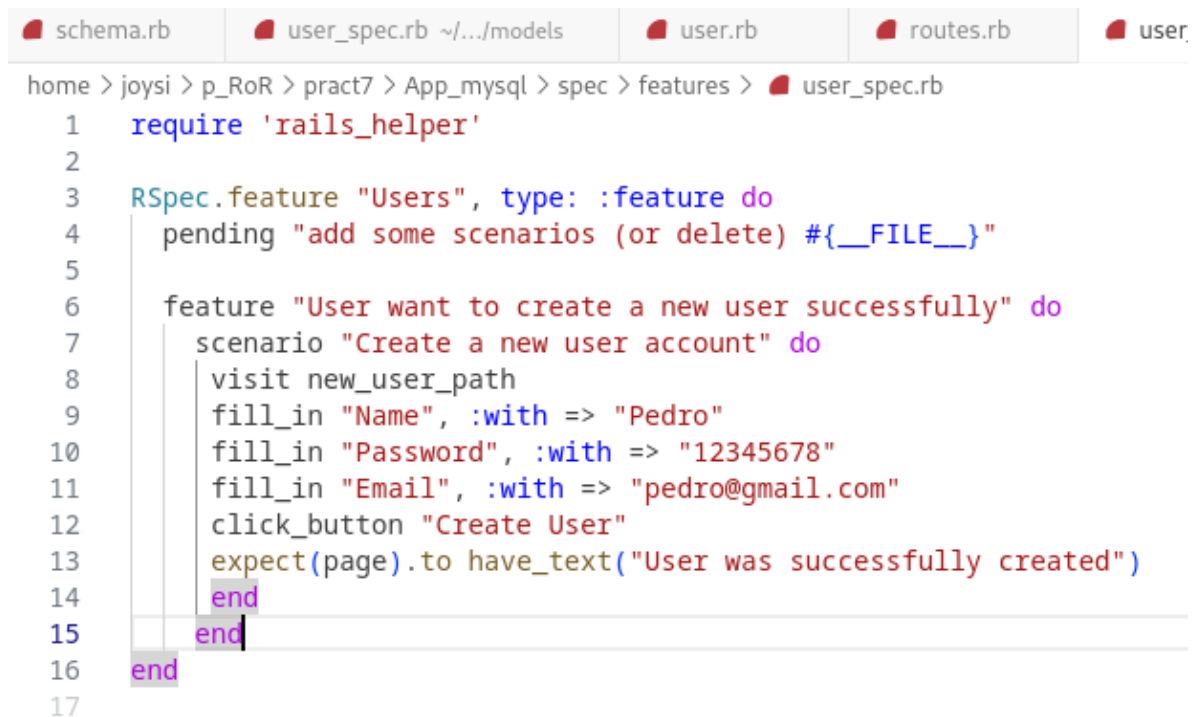
```
root@debian:/home/joysi/p_RoR/pract7/App_mysql# rails g rspec:feature user
create spec/features/user_spec.rb
root@debian:/home/joysi/p_RoR/pract7/App_mysql#
```

41. Abrir el archivo .rspec que está en la raíz de la aplicación y agregar la siguiente línea.



The screenshot shows a terminal window with the title bar "joysi@debian: ~/p_RoR/pract7". The editor is GNU nano 7.2, editing the file .rspec. The content of the file is: `--require spec_helper` followed by `-f documentation` on the next line, with the cursor at the end of the second line.

42. Abrir el archivo spec/features/user_spec.rb y agregar el siguiente código, para hacer test al comportamiento al momento de crear un nuevo usuario.



The screenshot shows a code editor with tabs for schema.rb, user_spec.rb, user.rb, routes.rb, and user. The active tab is user_spec.rb, showing the following code:

```
home > joysi > p_RoR > pract7 > App_mysql > spec > features > user_spec.rb
1  require 'rails_helper'
2
3  RSpec.feature "Users", type: :feature do
4    pending "add some scenarios (or delete) #{__FILE__}"
5
6    feature "User want to create a new user successfully" do
7      scenario "Create a new user account" do
8        visit new_user_path
9        fill_in "Name", :with => "Pedro"
10       fill_in "Password", :with => "12345678"
11       fill_in "Email", :with => "pedro@gmail.com"
12       click_button "Create User"
13       expect(page).to have_text("User was successfully created")
14     end
15   end
16 end
17
```

43. Ejecutar el test con rspec, escribiendo el siguiente comando en el terminal.

```
root@debian:/home/joysi/p_RoR/pract7/App_mysql# rspec spec/features/user_spec.rb

Users
  User wants to create a new user successfully

Finished in 5.53 seconds (files took 12.57 seconds to load)
1 example, 0 failures

root@debian:/home/joysi/p_RoR/pract7/App_mysql#
```

44. Copiar el siguiente código en el archivo spec/features/user_spec.rb.

```
feature "User want to see all users created" do
  scenario "User is on index page" do
    visit new_user_path
    click_link "Back"
    expect(page).to have_content("Users")
  end
end
end
```

Lín. 2

45. Ejecutar el test nuevamente y podrá observar que se ejecuta sin ningún problema.

```
root@debian:/home/joysi/p_RoR/pract7/App_mysql# rspec spec/features/user_spec.rb

Users
  User wants to create a new user successfully
  User want to see all users created
    User is on index page

Finished in 0.6908 seconds (files took 2.84 seconds to load)
2 examples, 0 failures

root@debian:/home/joysi/p_RoR/pract7/App_mysql#
```

46.. Crear una aplicación en Rails utilizando mysql; configurar una base de datos de nombre Datos_estudiante y utilice scaffold para generar el código y crear una tabla Estudiante con los campos nombres,

apellidos, carrera, carnet y validar todos los campos necesarios.

```
joysi@debian: ~/p_RoR/pract7
root@debian:/home/joysi/p_RoR/pract7/App_mysql# cd ..
root@debian:/home/joysi/p_RoR/pract7# rails new Datos_Est -T
  create
  create  README.md
  create  Rakefile
  create  .ruby-version
  create  config.ru
  create  .gitignore
  create  .gitattributes
  create  Gemfile
  run     git init -b main from "."
Inicializado repositorio Git vacío en /home/joysi/p_RoR/pract7/Datos_Est/.git/
  create  app
  create  app/assets/config/manifest.js
  create  app/assets/stylesheets/application.css
  create  app/channels/application_cable/channel.rb
  create  app/channels/application_cable/connection.rb
  create  app/controllers/application_controller.rb
  create  app/helpers/application_helper.rb
  create  app/jobs/application_job.rb
  create  app/mailers/application_mailer.rb
  create  app/models/application_record.rb
  create  app/views/layouts/application.html.erb
  create  app/views/layouts/mailer.html.erb

joysi@debian: ~/p_RoR/pract7
GNU nano 7.2 Gemfile
source "https://rubygems.org"

ruby "3.1.2"
gem 'mysql2'
# Bundle edge Rails instead: gem "rails", github: "rails/rails", branch: "main"
```



joysi@debian: ~/p_RoR/pract7

```
Using rails-dom-testing 2.2.0
Using globalid 1.2.1
Using actionview 7.1.3.4
Using debug 1.9.2
Using activemodel 7.1.3.4
Using jbuilder 2.12.0
Using actionpack 7.1.3.4
Using activejob 7.1.3.4
Using actioncable 7.1.3.4
Using activerecord 7.1.3.4
Using sprockets-rails 3.5.1
Using railties 7.1.3.4
Using actionmailer 7.1.3.4
Using activestorage 7.1.3.4
Using web-console 4.2.1
Using stimulus-rails 1.3.3
Using turbo-rails 2.0.6
Using importmap-rails 2.0.1
Using actionmailbox 7.1.3.4
Using actiontext 7.1.3.4
Using rails 7.1.3.4
Bundle complete! 14 Gemfile dependencies, 73 gems now installed.
Use `bundle info [gemname]` to see where a bundled gem is installed.
root@debian: /home/joysi/p_RoR/pract7/Datos_Est#
```

```
home > joysi > p_RoR > pract7 > Datos_Est > config > ! database.yml
1  # SQLite. Versions 3.8.0 and up are supported.
2  #   gem install sqlite3
3  #
4  #   Ensure the SQLite 3 gem is defined in your Gemfile
5  #   gem "sqlite3"
6  #
7  default: &default
8    adapter: mysql2
9    pool: <%= ENV.fetch("RAILS_MAX_THREADS") { 5 } %>
10   timeout: 5000
11
12  development:
13    <<: *default
14    database: Datos_Est
15    username: root
16    adapter: mysql2
17    password: 123
18    host: 127.0.0.1
19    port: 3306
20    timeout: 5000
21    pool: <%= ENV.Fetch("RAILS_MAX_THREADS") { 5 } %>
22
```

```
joysi@debian: ~/p_RoR/pract7

Using railties 7.1.3.4
Using sprockets-rails 3.5.1
Using debug 1.9.2
Using activerecord 7.1.3.4
Using importmap-rails 2.0.1
Using rspec-rails 7.0.1
Using stimulus-rails 1.3.3
Using turbo-rails 2.0.6
Using web-console 4.2.1
Using activestorage 7.1.3.4
Using actiontext 7.1.3.4
Using actionmailbox 7.1.3.4
Using rails 7.1.3.4
Bundle complete! 17 Gemfile dependencies, 86 gems now installed.
Use `bundle info [gemname]` to see where a bundled gem is installed.
root@debian:/home/joysi/p_RoR/pract7/Datos_Est# rake db:create:all
Database 'Datos_Est' already exists
Database 'Datos_Est_test' already exists
root@debian:/home/joysi/p_RoR/pract7/Datos_Est# rails g rspec:install
  create  .rspec
  create  spec
  create  spec/spec_helper.rb
  create  spec/rails_helper.rb
root@debian:/home/joysi/p_RoR/pract7/Datos_Est#
```

New estudiante

Nombres

Apellidos

Carrera

Carnet

Create Estudiante

[Back to estudiantes](#)

Estudiante was successfully created.

Nombres: rosa

Apellidos: orozco

Carrera: telematica

Carnet: 21-05828-0

[Edit this estudiante](#) | [Back to estudiantes](#)

Destroy this estudiante