

UNIVERSIDAD NACIONAL AUTONOMA DE NICARAGUA



UNAN - León

FACULTAD DE CIENCIAS Y TECNOLOGIA

Carrera: Ingeniería en Telemática

Componente: Software como un servicio

Grupo:1

Docente: Erving Montes

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Guía 7

```
root@debian:/home/gia# cd mysql/  
root@debian:/home/gia/mysql# 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 "."
```

```
Inicializado repositorio Git vacío en /home/gia/mysql/App_mysql/.git/  
create  app
```

```
25 de sep 17
gia@debian: ~
GNU nano 7.2 Gemfile *
# Static analysis for security vulnerabilities [https://brakemanscanner.
gem "brakeman", require: false

# Omakase Ruby styling [https://github.com/rails/rubocop-rails-omakase/]
gem "rubocop-rails-omakase", require: false
end

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

  # Highlight the fine-grained location where an error occurred [https://g
  gem "error_highlight", ">= 0.4.0", platforms: [:ruby]
end

gem 'rspec-rails'

gem 'shoulda-matchers'

gem 'capybara'

^G Ayuda      ^O Guardar    ^W Buscar     ^K Cortar     ^T Ejecutar   ^C Ubicac
^X Salir      ^R Leer fich. ^\ Reemplazar  ^U Pegar      ^J Justificar ^/ Ir a l
root@debian:/home/gia/mysql/App_mysql# rails g rspec:install
  create  .rspec
  create  spec
  create  spec/spec_helper.rb
  create  spec/rails_helper.rb
root@debian:/home/gia/mysql/App_mysql#
```

More...

```
rails_helper.rb
App_mysql > spec > rails_helper.rb
1  # This file is copied to spec/ when you run 'rails generate
2  require 'spec_helper'
3  ENV['RAILS_ENV'] ||= 'test'
4  require_relative '../config/environment'
5  # Prevent database truncation if the environment is produc
6  abort("The Rails environment is running in production mode
7  # Uncomment the line below in case you have '--require rai
8  # that will avoid rails generators crashing because migrat
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 lo
14
15 # Requires supporting ruby files with custom matchers and
16 # spec/support/ and its subdirectories. Files matching `sp
17 # run as spec files by default. This means that files in s
18 # is, and they will both be required and run as specs. For
```

+

lit Selection View Go Run Terminal Help

rails_helper.rb

application.rb x

App_mysql > config > application.rb

```
21 module AppMysql
22   class Application < Rails::Application
37     # config.eager_load_paths << Rails.root.join('app/assets/javascripts')
38
39     # Don't generate system test files.
40     config.generators.system_tests = nil
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 => false,
49         :request_specs => false
50     end
51   end
52 end
53 end
54
```

```
Edit Selection View Go Run Terminal Help
rails_helper.rb application.rb spec_helper.rb x
App_mysql > spec > spec_helper.rb
49   =begin
89   # Setting this allows you to use `--seed` to de
90   # test failures related to randomization by pa
91   # as the one that triggered the failure.
92   Kernel.srand config.seed
93   =end
94   end
95
96   Shoulda::Matchers.configure do |config|
97     config.integrate do |with|
98       # Choose a test framework:
99       with.test_framework :rspec
100      with.library :rails
101    end
102  end
103
```

```
root@debian:/home/gia/mysql/App_mysql# sudo apt install mariadb-server
```

```
Tecla de caracteres alternativos
```

```
root@debian:/home/gia/mysql/App_mysql# sudo systemctl start mariadb
```

```
Tecla de caracteres alternativos
```

```
root@debian:/home/gia/mysql/App_mysql# sudo apt-get install libmariadb-dev
```

```
Sonido Tecla de caracteres alternativos
```

```
Using turbo-rails 2.0.6
Using web-console 4.2.1
Bundle complete! 19 Gemfile dependencies, 103 gems now installed.
Use `bundle info [gemname]` to see where a bundled gem is installed.
```

```
root@debian:/home/gia/mysql/App_mysql#
```

```
Tecla de caracteres alternativos
```

```
Edit Selection View Go Run Terminal Help
! Gemfile ! database.yml x
config > ! database.yml
7 default: &default
8 pool: <%= ENV.fetch("RAILS_MAX_THREADS") { 5 } %>
10 timeout: 5000
11
12 development:
13   <<: *default
14   database: storage/development.sqlite3
15
16   development:
17     adapter: mysql2
18     username: debian
19     password: ruby1
20     host: 127.0.0.1
21     port: 3306
22     database: RoR
23     pool: <%= ENV.fetch("RAILS_MAX_THREADS") { 5 } %>
24     timeout: 5000
25
```

```
# gem "image_processing", "~> 1.2"

group :development, :test do
  # See https://guides.rubyonrails.org/debugging\_rails\_applications.html#debugging-with-the-debug-gem
  gem "debug", platforms: %i[ mri mswin mswin64 mingw x64_mingw ], require: false
  gem 'rspec-rails'
  gem 'shoulda-matchers'
  gem 'capybara'
  # Static analysis for security vulnerabilities [https://brakemanscanner.org]
  gem "brakeman", require: false

  # Omakase Ruby styling [https://github.com/rails/rubocop-rails-omakase/]

```

```
root@debian:/home/gia/mysql/App_mysql# rake db:create:all
Created database 'storage/development.sqlite3'
Created database 'storage/test.sqlite3'
root@debian:/home/gia/mysql/App_mysql#
```

```
root@debian:/home/gia/mysql/App_mysql# rake db:create
Created database 'RoR'
Created database 'RoR_test'
root@debian:/home/gia/mysql/App_mysql# mysql -u root -p
```

```
root@debian:/home/gia/mysql/App_mysql# rake db:migrate
root@debian:/home/gia/mysql/App_mysql#
```

```
root@debian:/home/gia/mysql/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/20240925140416_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
```

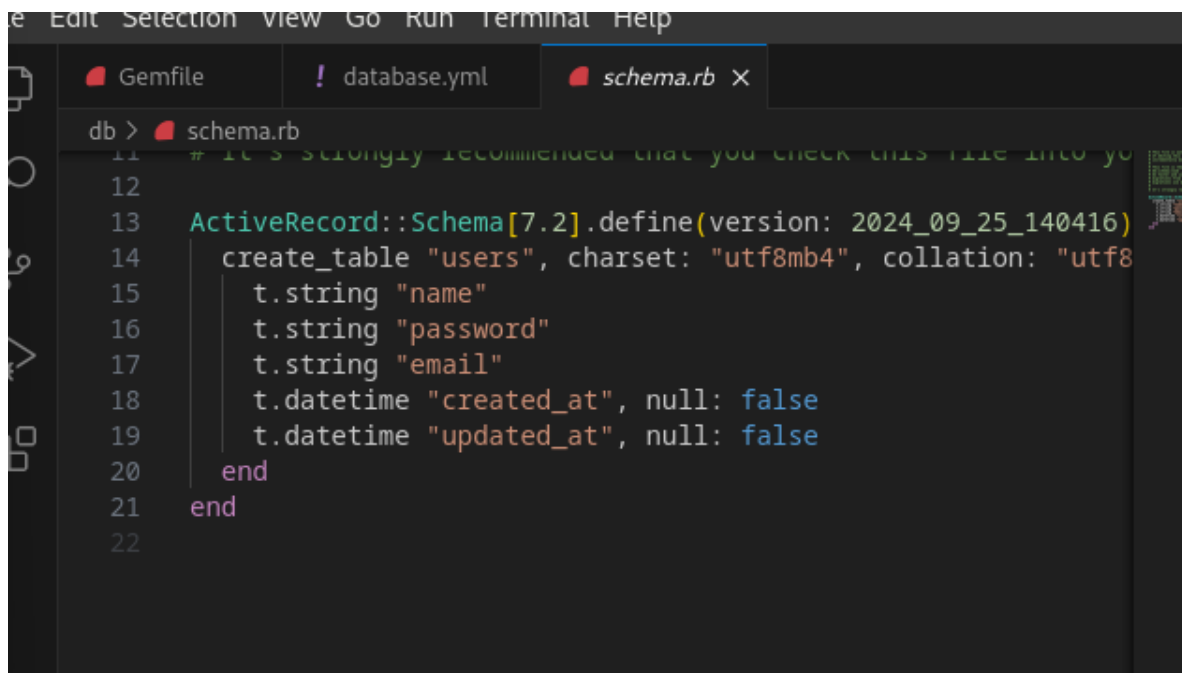


```
root@debian:/home/gia/mysql/App_mysql# rails db:migrate RAILS_ENV=test
== 20240925140416 CreateUsers: migrating =====
=====
-- create_table(:users)
   -> 0.0291s
== 20240925140416 CreateUsers: migrated (0.0293s) =====
=====

root@debian:/home/gia/mysql/App_mysql#
```

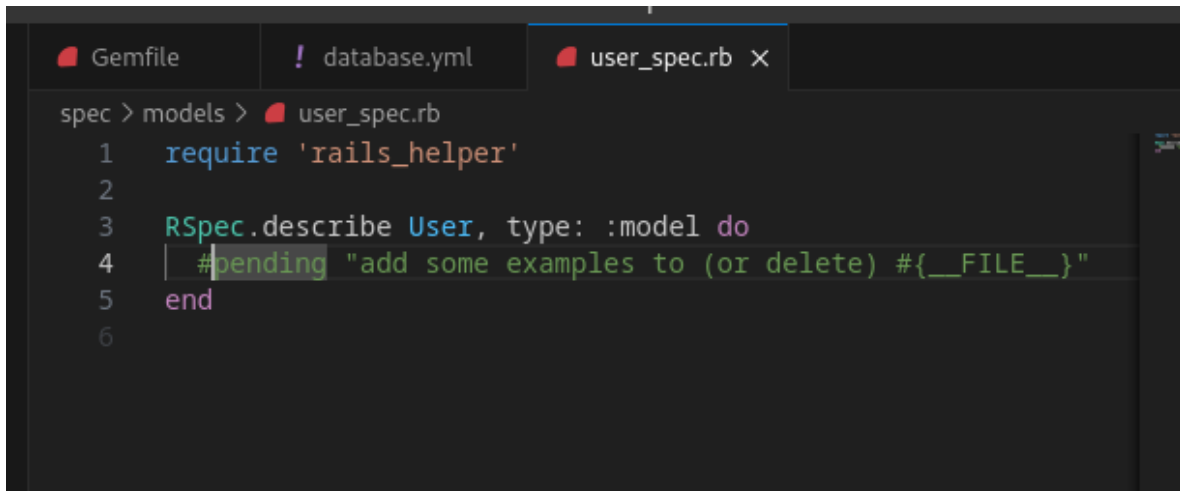
```
root@debian:/home/gia/mysql/App_mysql# rails db:migrate RAILS_ENV=development
== 20240925140416 CreateUsers: migrating =====
=====
-- create_table(:users)
   -> 0.0174s
== 20240925140416 CreateUsers: migrated (0.0175s) =====
=====

root@debian:/home/gia/mysql/App_mysql#
```



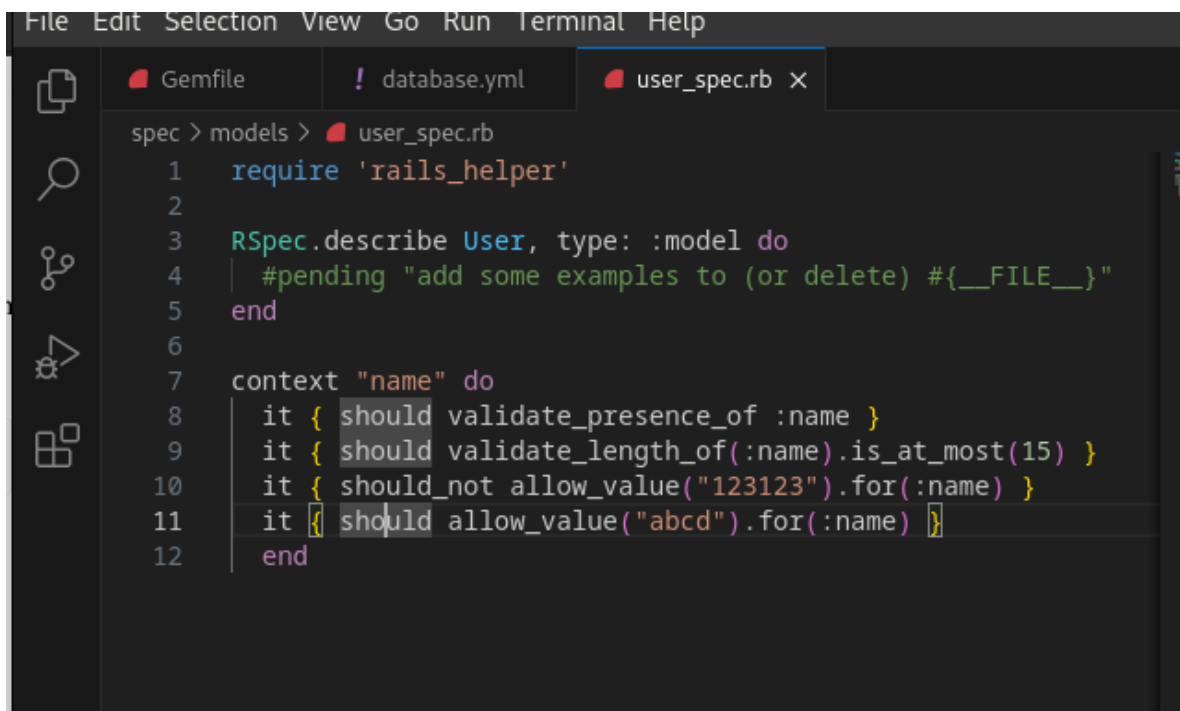
```
db > schema.rb
11 # It's strongly recommended that you check this file into your
12 # version control system
13 ActiveRecord::Schema[7.2].define(version: 2024_09_25_140416) do
14   create_table "users", charset: "utf8mb4", collation: "utf8mb4_0900_ai_ci" do
15     t.string "name"
16     t.string "password"
17     t.string "email"
18     t.datetime "created_at", null: false
19     t.datetime "updated_at", null: false
20   end
21 end
22
```

```
root@debian:/home/gia/mysql/App_mysql# ls spec
models rails_helper.rb spec_helper.rb
root@debian:/home/gia/mysql/App_mysql#
```



A screenshot of a code editor with three tabs: 'Gemfile', 'database.yml', and 'user_spec.rb'. The 'user_spec.rb' tab is active, showing the following code:

```
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
```



A screenshot of a code editor with a menu bar (File, Edit, Selection, View, Go, Run, Terminal, Help) and three tabs: 'Gemfile', 'database.yml', and 'user_spec.rb'. The 'user_spec.rb' tab is active, showing the following code:

```
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
7  context "name" do
8    it { should validate_presence_of :name }
9    it { should validate_length_of(:name).is_at_most(15) }
10   it { should_not allow_value("123123").for(:name) }
11   it { should allow_value("abcd").for(:name) }
12  end
```

```
File Edit Selection View Go Run Terminal Help

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
Failures:

1) name is expected to validate that :name cannot be empty/falsy
Failure/Error: it { should validate_presence_of :name }

Shoulda::Matchers::ActiveModel::AllowValueMatcher::AttributeDoesNotExistError:
  The matcher attempted to set :name on the String to nil, but that
  attribute does not exist.
# ./spec/models/user_spec.rb:8:in `block (2 levels) in <top (required)>'

2) name is expected to validate that the length of :name is at most 15
Failure/Error: it { should validate_length_of(:name).is_at_most(15) }

NoMethodError:
  undefined method `errors' for "name":String

      if record && record.errors.respond_to?(:generate_message)
                        ^^^^^^^
# ./spec/models/user_spec.rb:9:in `block (2 levels) in <top (required)>'

3) name is expected not to allow :name to be <"123123">
Failure/Error: it { should_not allow_value("123123").for(:name) }

Shoulda::Matchers::ActiveModel::AllowValueMatcher::AttributeDoesNotExistError:
  The matcher attempted to set :name on the String to "123123", but that
```

```
File Edit Selection View Go Run Terminal Help

user_spec.rb user.rb x 20240925140416_create_users.r ...
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]/
4   validates :name, length: { maximum: 15 }, on: :create
5 end
6
```

```
root@debian:/home/gia/mysql/App_mysql# rspec spec/models/user_spec.rb
```

```
....
```

```
Finished in 0.02234 seconds (files took 1.05 seconds to load)
```

```
4 examples, 0 failures
```

```
root@debian:/home/gia/mysql/App_mysql#
```

```
context "Password" do
  it { should validate_presence_of :password }
  it { should validate_length_of(:password).is_equal_to(8) }
end

end
}
```

4 examples, 0 failures

```
root@debian:/home/gia/mysql/App_mysql# rspec spec/models/user_spec.rb
```

....FF

Failures:

- 1) User name Password is expected to validate that :password cannot be empty/falsy
Failure/Error: it { should validate_presence_of :password }

Expected User to validate that :password cannot be empty/falsy, but this could not be proved.

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

* name: ["can't be blank", "is invalid"]

./spec/models/user_spec.rb:12:in `block (4 levels) in <top (required)>'

- 2) User name Password is expected to validate that the length of :password is 8
Failure/Error: it { should validate_length_of(:password).is_equal_to(8) }

Expected User to validate that the length of :password is 8, but this could not be proved.

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

```
6   validates_presence_of :password, presence: true
7   validates_length_of :password, is: 8
8   end
9
```

File Edit Selection View Go Run Terminal Help

```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS  bash + - [ ] [x] ... v

root@debian:/home/gia/mysql/App_mysql# rspec spec/models/user_spec.rb
.....

Finished in 0.11289 seconds (files took 1.2 seconds to load)
6 examples, 0 failures

root@debian:/home/gia/mysql/App_mysql#
```

```
Gemfile  ! database.yml  user_spec.rb x  user.rb  20240925140416

spec > models > user_spec.rb
  3  RSpec.describe User, type: :model do
  5    context "name" do
  8      it { should_not allow_value("123123").for(:name) }
  9      it { should allow_value("abcd").for(:name) }
 10
 11      context "Password" do
 12        it { should validate_presence_of :password }
 13        it { should validate_length_of(:password).is_equal_to(8) }
 14
 15        context "email" do
 16          it { should validate_presence_of :email }
 17          it { should validate_uniqueness_of :email }
 18          it { should_not allow_value("text").for(:email) }
 19          it { should allow_value("a@b.com").for(:email) }
 20        end
 21      end
 22    end
 23
 24  end
 25 end
 26 end
 27
 28
```

```
Edit Selection View Go Run Terminal Help

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

root@debian:/home/gia/mysql/App_mysql# rspec spec/models/user_spec.rb
.....FFF.

Failures:

  1) User name Password email is expected to validate that :email cannot be empty/falsy
     Failure/Error: it { should validate_presence_of :email }

     Expected User to validate that :email cannot be empty/falsy, but this
     could not be proved.
     After setting :email to <"", 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:

       * name: ["can't be blank", "is invalid"]
       * password: ["can't be blank", "is the wrong length (should be 8
         characters)"]
     # ./spec/models/user_spec.rb:16:in `block (5 levels) in <top (required)>'

  2) User name Password email is expected to validate that :email is case-sensitively unique
     Failure/Error: it { should validate_uniqueness_of :email }

     Expected User to validate that :email is case-sensitively unique, but
     this could not be proved.
     After taking the given User, setting its :email to <"dummy value">,
     and saving it as the existing record, then making a new User and
     setting its :email to <"dummy value"> as well, the matcher expected
     the new User to be invalid, placing a validation error on :email. The
     Example was invalid, but it had errors involving other attributes:
```

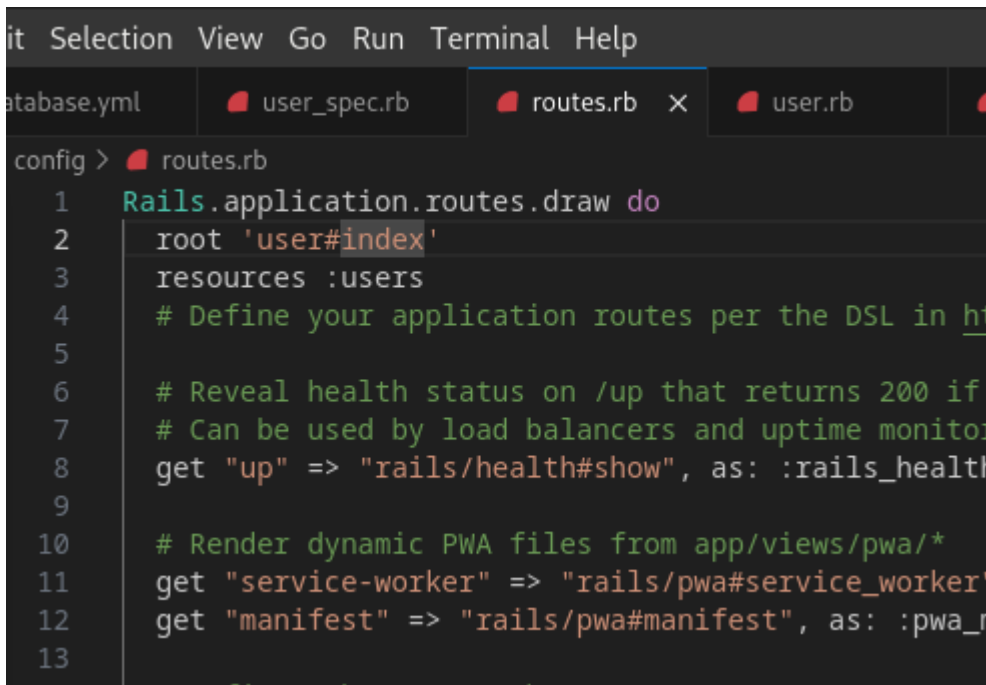
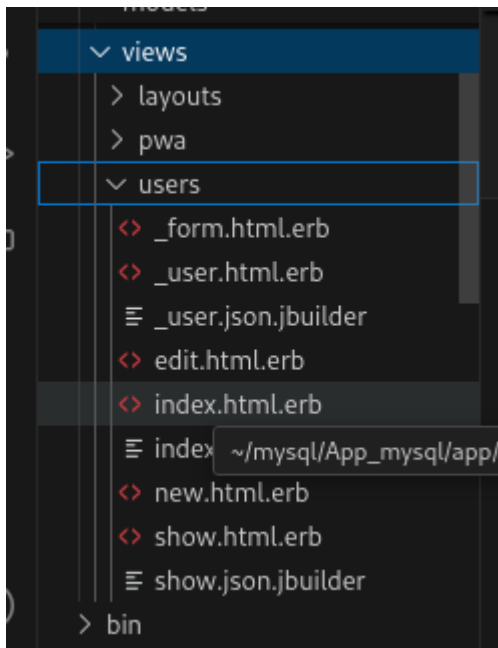
```
File Edit Selection View Go Run Terminal Help

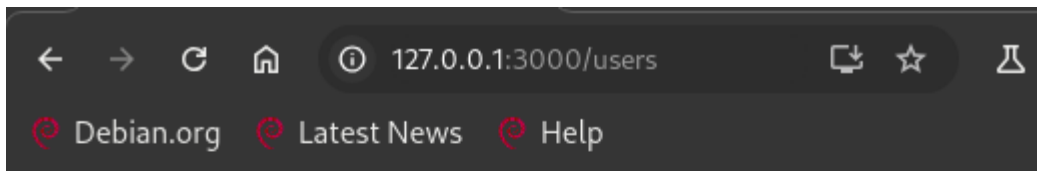
Gemfile database.yml user_spec.rb user.rb 202

app > models > user.rb
1  class User < ApplicationRecord
5
6      validates_presence_of :password, presence: true
7      validates_length_of :password, is: 8
8
9      validates_presence_of :email, presence: true
10     validates_uniqueness_of :email
11     validates_format_of :email, with: /@/
12 end
13
```

```
root@debian:/home/gia/mysql/App_mysql# rspec spec/models/user_spec.rb
.....

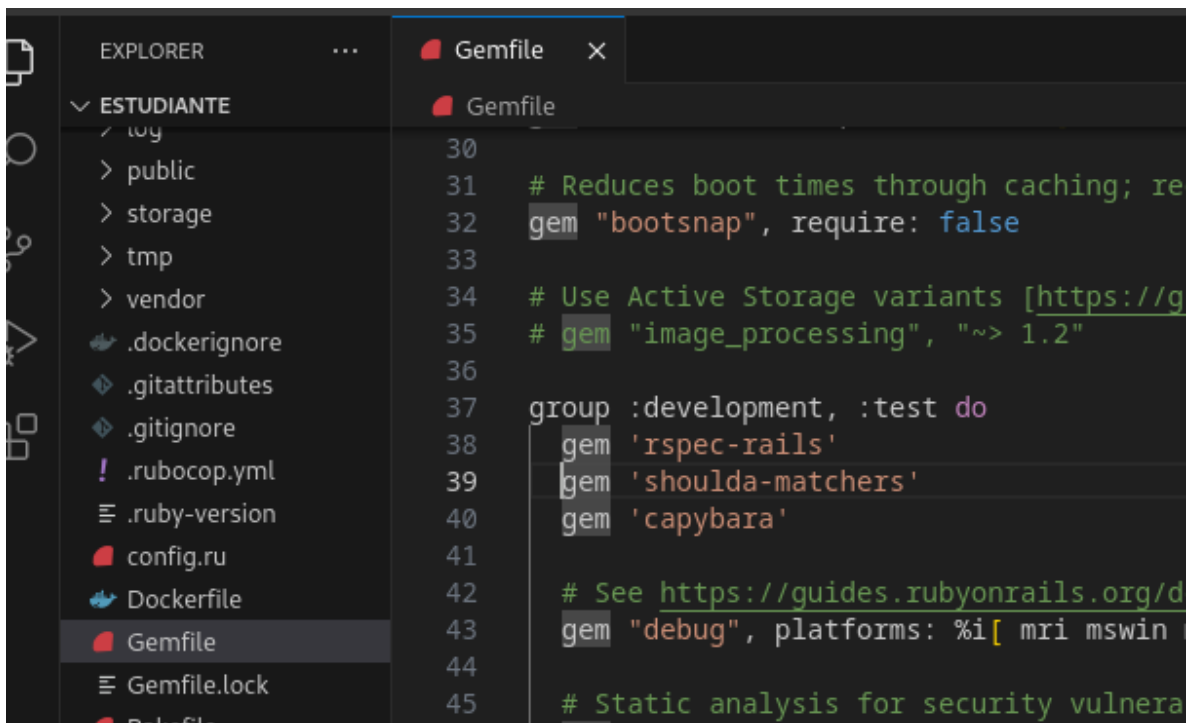
Finished in 0.30709 seconds (files took 1.1 seconds to load)
10 examples, 0 failures
```





Users

[New user](#)



```
sql
debian:/home/gia/mysql# rails new Estudiante -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 "."
lizado repositorio Git vacío en /home/gia/mysql/Estudiante/
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
```

```
root@debian:/home/gia/mysql/Estudiante# bundle install
Don't run Bundler as root. Bundler can ask for sudo if it is needed, and
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....
Using rake 13.2.1
Using base64 0.2.0
Using bigdecimal 3.1.8
Using concurrent-ruby 1.3.4
Using connection_pool 2.4.1
Using drb 2.2.1
Using i18n 1.14.6
Using logger 1.6.1
Using minitest 5.25.1
Using securerandom 0.3.1
Using tzinfo 2.0.6
Using activesupport 7.2.1
Using builder 3.3.0
Using erubi 1.13.0
Using racc 1.8.1
```

```

(See full trace by running task with --trace)
root@debian:/home/gia/mysql/Estudiante# rake db:cr
Created database 'storage/development.sqlite3'
Created database 'storage/test.sqlite3'
root@debian:/home/gia/mysql/Estudiante# rails g rs
    create  .rspec
    create  spec
    create  spec/spec_helper.rb
    create  spec/rails_helper.rb
root@debian:/home/gia/mysql/Estudiante#

```

```

Bundle complete! 19 Gemfile dependencies, 103 gems now installed.
Use `bundle info [gemname]` to see where a bundled gem is installed.
root@debian:/home/gia/mysql/Estudiante#
root@debian:/home/gia/mysql/Estudiante# rake db:create
Database 'RoR' already exists
Database 'storage/test.sqlite3' already exists
root@debian:/home/gia/mysql/Estudiante#

```

```

t@debian:/home/gia/mysql/Estudiante# rails g scaffold Est nombres:string apellidos:string carrera:string car
tring
    invoke  active_record
    create  db/migrate/20240925183917_create_ests.rb
    create  app/models/est.rb
    invoke  rspec
    create  spec/models/est_spec.rb
    invoke  resource_route
    route   resources :ests
    invoke  scaffold_controller
    create  app/controllers/ests_controller.rb
    invoke  erb
    create  app/views/ests

```

```

(See full trace by running task with --trace)
root@debian:/home/gia/mysql/Estudiante# rails db:migrate RAILS_ENV=development
== 20240925183917 CreateEsts: migrating =====
-- create_table(:ests)
   -> 0.1398s
== 20240925183917 CreateEsts: migrated (0.1400s) =====

```

```

root@debian:/home/gia/mysql/Estudiante# rails db:migrate RAILS_ENV=test
== 20240925183917 CreateEsts: migrating =====
-- create_table(:ests)
   -> 0.0013s
== 20240925183917 CreateEsts: migrated (0.0015s) =====

root@debian:/home/gia/mysql/Estudiante# rails db:migrate RAILS_ENV=developmen

```

The screenshot shows a web browser window on the left and a code editor on the right. The browser window displays a form titled "New est" with four input fields: "Nombres", "Apellidos", "Carrera", and "Carnet". The "Carnet" field contains the value "ww". Below the fields is a "Create Est" button. A red error message states: "4 errors prohibited this est from being saved:". The errors listed are: "Nombres can't be blank", "Apellidos can't be blank", "Carrera can't be blank", and "Carnet is not a number". A "Back to ests" link is at the bottom. The code editor on the right shows the `est.rb` file with the following code:

```

1 class Est < ApplicationRecord
2   validates :nombres, :apellidos, :carr
3   validates :carnet, numericality:true
4
5 end
6

```

Est was successfully created.

Nombres: agua

Apellidos: snfjg

Carrera: telematica

Carnet: 12344

[Edit this est](#) | [Back to ests](#)

```
root@debian:/home/gia/mysql/Estudiante# rails g rspec:feature user
      create  spec/features/user_spec.rb
root@debian:/home/gia/mysql/Estudiante#
```