

UNIVERSIDAD DE LAS FUERZAS ARMADAS ESPE

Advanced Web Programming



RUBY

Team# 4

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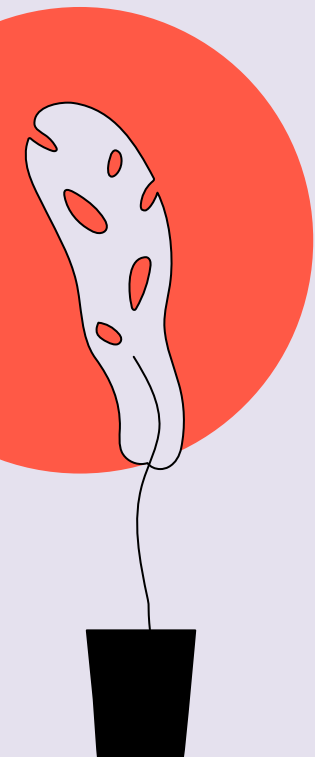
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01

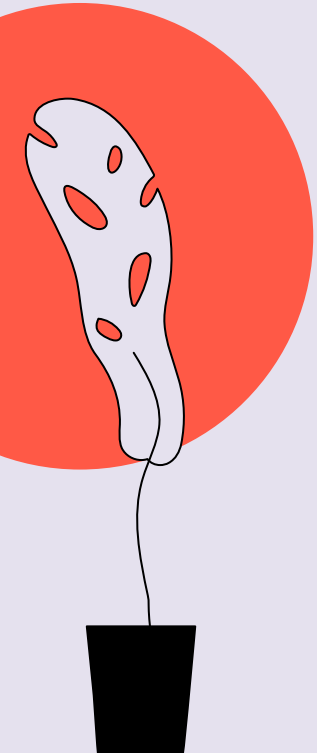


INTRODUCTION

Ruby is a programming language that appeared in 1993, as an unique way to create software applications with more understandable code, and giving programmers many possibilities to create their applications.

But its peak was on 2004 with the development of “Ruby on Rails” created by David Heinemeier Hansson, or commonly named DHH. Rails uses a lot of architecture design and different modeling process to the creation of web applications giving the programmer many facilities and helping to create something new with a lot of structure and in short time.

Actually ruby is still used, but its community has been decreased in the last years with the emergence of new technologies that could make the same with less structure and more flexibility.



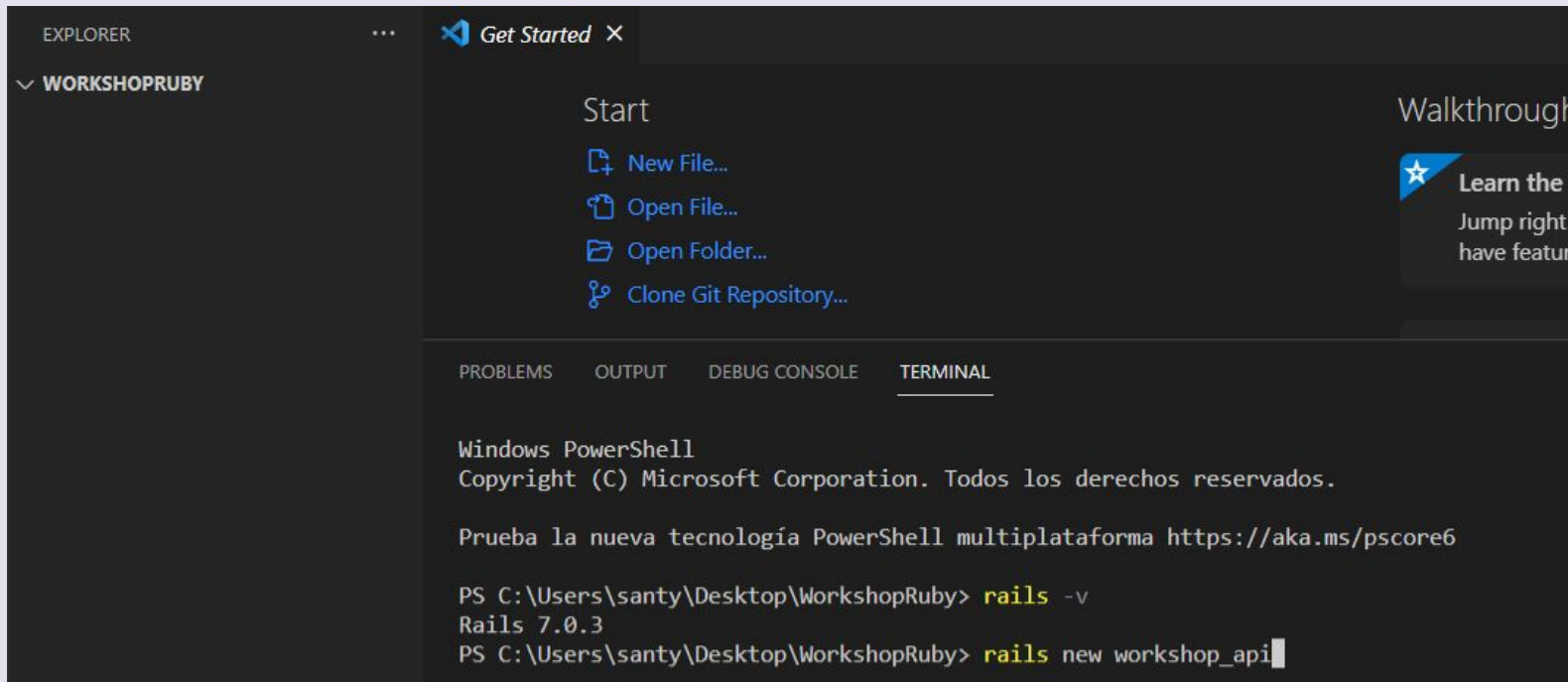
02

Development





Create the container folder





File Edit Selection View Go Run Terminal Help config.ru - workshop_api - Visual Studio Code

EXPLORER

WORKSHOP_API

- > app
- > bin
- > config
- > db
- > lib
- > log
- > public
- > storage
- > test
- > tmp
- > vendor
- ◆ .gitattributes U
- ◆ .gitignore U
- ≡ .ruby-version U
- 🔴 config.ru U
- 🔴 Gemfile U
- ≡ Gemfile.lock U
- 🔴 Rakefile U
- ① README.md U

config.ru

```
1 # This file is used by Rack-based servers to start the application.
2
3 require_relative "config/environment"
4
5 run Rails.application
6 Rails.application.load_server
7
```

Installation Problems



PROBLEMS

OUTPUT

DEBUG CONSOLE

TERMINAL

Windows PowerShell

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Prueba la nueva tecnología PowerShell multiplataforma <https://aka.ms/pscore6>

PS C:\Users\santy\Desktop\WorkshopRuby> rails -v

Rails 7.0.3

PS C:\Users\santy\Desktop\WorkshopRuby> █

PS C:\Users\santy\Desktop\WorkshopRuby> rails -v

Rails 7.0.3

PS C:\Users\santy\Desktop\WorkshopRuby> rails new workshop_api █

```
PS C:\Users\santy\Desktop\WorkshopRuby> rails -v
```

```
Rails 7.0.3
```

```
PS C:\Users\santy\Desktop\WorkshopRuby> rails new workshop_api
```

```
  create
```

```
  create  README.md
```

```
  create  Rakefile
```

```
  create  .ruby-version
```

```
  create  config.ru
```

```
  create  .gitignore
```

```
  create  .gitattributes
```

```
  create  Gemfile
```

```
    run  git init from "."
```

```
Initialized empty Git repository in C:/Users/santy/Desktop/WorkshopRuby/workshop_api/.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
```

```
Bundle complete! 15 Gemfile dependencies, 70 gems now installed.
Use `bundle info [gemname]` to see where a bundled gem is installed.
    run bundle binstubs bundler
    rails importmap:install
rails aborted!
TZInfo::DataSourceNotFound: tzinfo-data is not present. Please add gem 'tzinfo-data' to your Gemfile and run bundle in
stall
C:/Users/santy/Desktop/WorkshopRuby/workshop_api/config/environment.rb:5:in `'

Caused by:
TZInfo::DataSources::ZoneinfoDirectoryNotFound: None of the paths included in TZInfo::DataSources::ZoneinfoDataSource.
search_path are valid zoneinfo directories.
C:/Users/santy/Desktop/WorkshopRuby/workshop_api/config/environment.rb:5:in `'
Tasks: TOP => app:template => environment
(See full trace by running task with --trace)
    rails turbo:install stimulus:install
You must either be running with node (package.json) or importmap-rails (config/importmap.rb) to use this gem.
You must either be running with node (package.json) or importmap-rails (config/importmap.rb) to use this gem.
```

```
36 # Use Active Model has_secure_password [https://guides.rubyonrails.org/active\_model\_basics.html#securepassword]
37 # gem "bcrypt", "~> 3.1.7"
38
39 # Windows does not include zoneinfo files, so bundle the tzinfo-data gem
40 gem "tzinfo-data", platforms: %i[ mingw mswin x64_mingw jruby ]
41
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
    rails importmap:install
rails aborted!
TZInfo::DataSourceNotFound: tzinfo-data is not present. Please add gem 'tzinfo-data' to your Gemfile and run bundle in
stall
C:/Users/santy/Desktop/WorkshopRuby/workshop_api/config/environment.rb:5:in `'
```

The solution

```
gem 'tzinfo-data', platforms: [:mingw, :mswin, :x64_mingw]
```

PROBLEMS OUTPUT TERMINAL JUPYTER DEBUG CONSOLE

Windows PowerShell

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Prueba la nueva tecnología PowerShell multiplataforma <https://aka.ms/pscore6>

PS C:\Users\nicol\Downloads\web\workshop_api> rails server

=> Booting Puma

=> Rails 7.0.3 application starting in development

=> Run `bin/rails server --help` for more startup options

*** SIGUSR2 not implemented, signal based restart unavailable!

*** SIGUSR1 not implemented, signal based restart unavailable!

*** SIGHUP not implemented, signal based logs reopening unavailable!

Puma starting in single mode...

* Puma version: 5.6.4 (ruby 3.1.2-p20) ("Birdie's Version")

* Min threads: 5

* Max threads: 5

* Environment: development

* PID: 10732

* Listening on http://[::1]:3000

* Listening on http://127.0.0.1:3000

Use Ctrl-C to stop

Database



Data base

```
→ rails db:migrate
= 20210130171411 CreateBands: migrating =====
-- create_table(:bands)
  → 0.0026s
= 20210130171411 CreateBands: migrated (0.0027s) =====
```

```
→ rails c
Running via Spring preloader in process 6823
Loading development environment (Rails 6.1.1)
irb(main):001:0> Band.create(name: "AC/DC")
(0.8ms) SELECT sqlite_version(*)
TRANSACTION (0.1ms) begin transaction
Band Create (0.5ms) INSERT INTO "bands" ("name", "created_at", "updated_at") VALUES (?, ?, ?) [["name", "AC/DC"], ["created_at", "2021-01-30 17:16:10.988283"], ["updated_at", "2021-01-30 17:16:10.988283"]]
TRANSACTION (0.5ms) commit transaction
⇒ #<Band id: 1, name: "AC/DC", created_at: "2021-01-30 17:16:10.988283000 +0000", updated_at: "2021-01-30 17:16:10.988283000 +0000">
```





SPECS

band_serializer.rb U X

member_serializer.rb U

active_model_serializer.rb U

app > serializers > band_serializer.rb

```
1 class BandSerializer < ActiveModel::Serializer
2   attributes :id, :name
3   has_many :members
4 end
5
```


app > models > member.rb

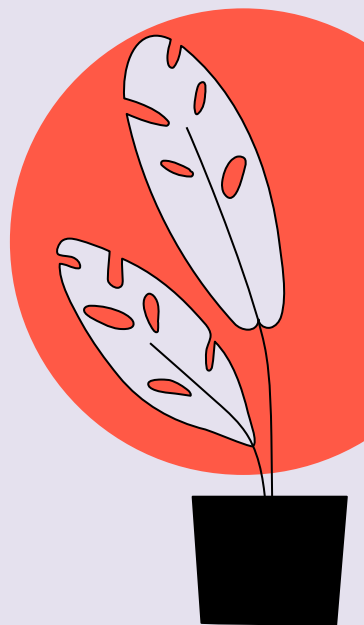
```
1 class Member < ApplicationRecord
2   belongs_to :band
3 end
4
```

app > models > band.rb

```
1 class Band < ApplicationRecord
2   has_many :members
3 end
4
```

Get Method

```
app > controllers >  bands_controller.rb
1  class BandsController < ApplicationController
2    before_action :set_band, only: %i[ show update destroy ]
3
4    # GET /bands
5    def index
6      @bands = Band.all
7      # muestra todos los datos
8      render json: @bands
9      #render json: @bands.include(:members), only: [:id,:name]
10   end
11
12   # GET /bands/1
13   def show
14     render json: @band
15   end
```



Display all the elements

```
127.0.0.1:3000/bands

{
  "data": [
    {
      "id": "1",
      "type": "bands",
      "attributes": {
        "name": null
      },
      "relationships": {
        "members": {
          "data": [
            {
              "id": "1",
              "type": "members"
            }
          ]
        }
      }
    },
    {
      "id": "2",
      "type": "bands",
      "attributes": {
        "name": "AC/DC"
      },
      "relationships": {
        "members": {
          "data": []
        }
      }
    }
  ]
}
```



Display by id

http://127.0.0.1:3000/bands/3

GET http://127.0.0.1:3000/bands/3

Params Authorization Headers (7) Body Pre-request Script Tests

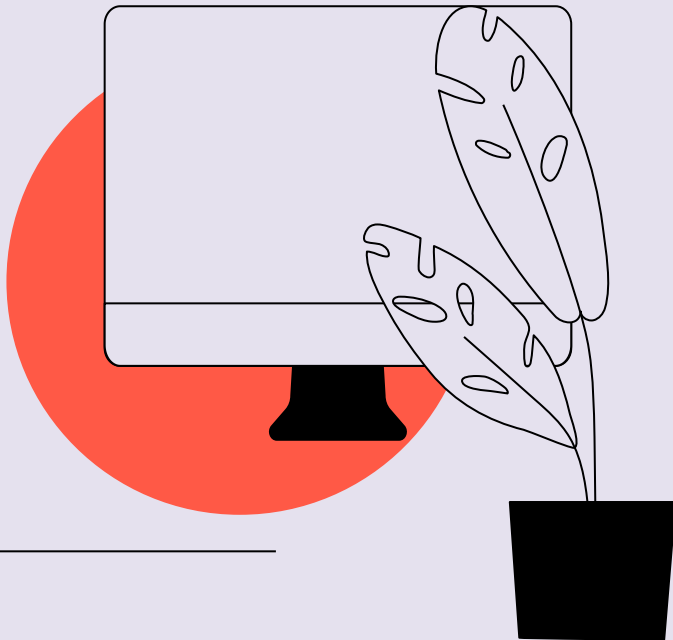
none form-data x-www-form-urlencoded **raw** binary GraphQL

1

Body Cookies Headers (14) Test Results

Pretty Raw Preview Visualize JSON

```
1  {
2    "data": {
3      "id": "3",
4      "type": "bands",
5      "attributes": {
6        "name": "Coldplay"
7      },
8      "relationships": {
9        "members": {
10         "data": []
11       }
12     }
13   }
14 }
```



POST method

Overview **POST** http://127.0.0.1:3000/ + ...

http://127.0.0.1:3000/bands/

POST ▼ http://127.0.0.1:3000/bands/

Params Authorization Headers (9) **Body** ● Pre-request Script

☐ none ☐ form-data ☐ x-www-form-urlencoded ☒ raw ☐ binary

```
1 POST
2 ..... "type": "bands",
3 ..... "name": "La piñata"
4
```

Body Cookies Headers (15) Test Results

Pretty Raw Preview Visualize JSON ▼ ≡

```
1 {
2   "data": {
3     "id": "11",
4     "type": "bands",
5     "attributes": {
6       "name": "La piñata"
7     },
8     "relationships": {
9       "members": {
10        "data": []
11      }
12    }
13  }
14 }
```

```
17 # POST /bands
18 def create
19   @band = Band.new(band_params)
20
21   if @band.save
22     render json: @band, status: :created, location: @band
23   else
24     render json: @band.errors, status: :unprocessable_entity
25   end
26 end
27
```

127.0.0.1:3000/bands/11

```
{
  "data": {
    "id": "11",
    "type": "bands",
    "attributes": {
      "name": "La piñata"
    },
    "relationships": {
      "members": {
        "data": []
      }
    }
  }
}
```

DELETE method

Overview **DEL** http://127.0.0.1:3000/bands/9 + ...

http://127.0.0.1:3000/bands/9

DELETE http://127.0.0.1:3000/bands/9

Params Authorization Headers (7) **Body** Pre-request Script Tests Settings

☐ none ☐ form-data ☐ x-www-form-urlencoded ☒ raw ☐ binary ☐ GraphQL

1

Body Cookies Headers (10) Test Results

Pretty Raw Preview Visualize Text

1

```
36  
37 # DELETE /bands/1  
38 def destroy  
39 | @band.destroy  
40 end
```

Overview **GET** http://127.0.0.1:3000/bands/9 + ...

http://127.0.0.1:3000/bands/9

GET http://127.0.0.1:3000/bands/9

Params Authorization Headers (7) **Body** Pre-request Script Tests Settings

☐ none ☐ form-data ☐ x-www-form-urlencoded ☒ raw ☐ binary ☐ GraphQL **JSON**

1

Body Cookies Headers (5) Test Results Status: 404 Not Found Time: 0

Pretty Raw Preview Visualize **JSON**

```
1  
2 {"status": 404,  
3  "error": "Not Found",
```



Thanks!