

**UNIVERSIDAD NACIONAL AUTÓNOMA DE NICARAGUA, LEÓN.**  
**FACULTAD DE CIENCIAS Y TECNOLOGIAS.**



**II Semestre**

**Componente: Software Como Un Servicio.**

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**Integrantes:**

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**“A la Libertad por la Universidad”**

Por acá comenzamos con el ejercicio propuesto 1.

Creamos el proyecto

```
root@DeRUBY:/home/dj/Documentos/P6# cd App_Scaffold
root@DeRUBY:/home/dj/Documentos/P6/App_Scaffold# rails generate scaffold Buy category:string description:text amount:decimal

  invoke  active_record
  create  db/migrate/20240910220638_create_buys.rb
  create  app/models/buy.rb
  invoke  test_unit
  create  test/models/buy_test.rb
  create  test/fixtures/buys.yml
  invoke  resource_route
   route  resources :buys
  invoke  scaffold_controller
  create  app/controllers/buys_controller.rb
  invoke  erb
  create  app/views/buys
  create  app/views/buys/index.html.erb
  create  app/views/buys/edit.html.erb
  create  app/views/buys/show.html.erb
  create  app/views/buys/new.html.erb
  create  app/views/buys/_form.html.erb
  create  app/views/buys/_buy.html.erb
  invoke  resource_route
  invoke  test_unit
  create  test/controllers/buys_controller_test.rb
  create  test/system/buys_test.rb
  invoke  helper
  create  app/helpers/buys_helper.rb
  invoke  test_unit
  invoke  jbuilder
  create  app/views/buys/index.json.jbuilder
  create  app/views/buys/show.json.jbuilder
  create  app/views/buys/_buy.json.jbuilder
root@DeRUBY:/home/dj/Documentos/P6/App_Scaffold# rake db:migrate
== 20240910220638 CreateBuys: migrating =====
-- create_table(:buys)
   => 0.0011s
== 20240910220638 CreateBuys: migrated (0.0011s) =====
```

Generamos un scaffold, con una tabla llamada Buy con los campos:

rails generate scaffold Buy category:string description:text amount:decimal

```
root@DeRUBY:/home/dj/Documentos/P6# cd App_Scaffold
root@DeRUBY:/home/dj/Documentos/P6/App_Scaffold# rails generate scaffold Buy category:string description:text amount:decimal
invoke active_record
create db/migrate/20240910220638_create_buys.rb
create app/models/buy.rb
invoke test_unit
create test/models/buy_test.rb
create test/fixtures/buys.yml
invoke resource_route
route resources :buys
invoke scaffold_controller
create app/controllers/buys_controller.rb
invoke erb
create app/views/buys
create app/views/buys/index.html.erb
create app/views/buys/edit.html.erb
create app/views/buys/show.html.erb
create app/views/buys/new.html.erb
create app/views/buys/_form.html.erb
create app/views/buys/_buy.html.erb
invoke resource_route
invoke test_unit
create test/controllers/buys_controller_test.rb
create test/system/buys_test.rb
invoke helper
create app/helpers/buys_helper.rb
invoke test_unit
invoke jbuilder
create app/views/buys/index.json.jbuilder
create app/views/buys/show.json.jbuilder
create app/views/buys/_buy.json.jbuilder
root@DeRUBY:/home/dj/Documentos/P6/App_Scaffold# rake db:migrate
== 20240910220638 CreateBuys: migrating =====
-- create_table(:buys)
-> 0.0011s
== 20240910220638 CreateBuys: migrated (0.0011s) =====
```

Luego Migramos las datos:

rake db:migrate

```
root@DeRUBY:/home/dj/Documentos/P6/App_Scaffold# rake db:migrate
== 20240910220638 CreateBuys: migrating =====
-- create_table(:buys)
-> 0.0011s
== 20240910220638 CreateBuys: migrated (0.0011s) =====
```

Al Escribir el siguiente comando en el terminal y observar las rutas generadas.

\$ rake routes (“Debido a la actualización mas reciente de rails ya no se usa el comando rake sino \$rails routes”)

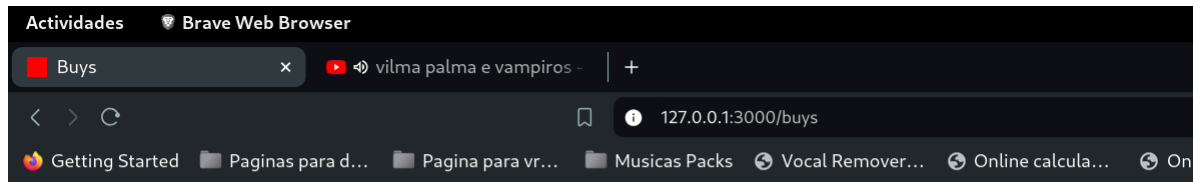
Observar que se muestran todas las rutas configuradas en el proyecto.

```
root@DeRUBY: /home/dj/Documentos/P6/App_Scaffold# rails routes
      Prefix Verb   URI Pattern
Controller#Action
  buys GET    /buys(.:format)
buys#index
      POST    /buys(.:format)
buys#create
  new_buy GET    /buys/new(.:format)
buys#new
  edit_buy GET    /buys/:id/edit(.:format)
buys#edit
      buy GET    /buys/:id(.:format)
buys#show
      PATCH   /buys/:id(.:format)
buys#update
      PUT     /buys/:id(.:format)
buys#update
      DELETE  /buys/:id(.:format)
buys#destroy
rails_health_check GET    /up(.:format)
rails/health#show
pwa_service_worker GET    /service-worker(.:format)
rails/pwa#service_worker
pwa_manifest GET    /manifest(.:format)
rails/pwa#manifest
turbo_recede_historical_location GET    /recede_historical_location(.:format)
turbo/native/navigation#recede
turbo_resume_historical_location GET    /resume_historical_location(.:format)
turbo/native/navigation#resume
turbo_refresh_historical_location GET    /refresh_historical_location(.:format)
turbo/native/navigation#refresh
rails_postmark_inbound_emails POST   /rails/action_mailbox/postmark/inbound_emails(.:format)
action_mailbox/ingresses/postmark/inbound_emails#create
rails_relay_inbound_emails POST   /rails/action_mailbox/relay/inbound_emails(.:format)
action_mailbox/ingresses/relay/inbound_emails#create
rails_sendgrid_inbound_emails POST   /rails/action_mailbox/sendgrid/inbound_emails(.:format)
action_mailbox/ingresses/sendgrid/inbound_emails#create
rails_mandrill_inbound_health_check GET    /rails/action_mailbox/mandrill/inbound_emails(.:format)
action_mailbox/ingresses/mandrill/inbound_emails#health_check
rails_mandrill_inbound_emails POST   /rails/action_mailbox/mandrill/inbound_emails(.:format)
action_mailbox/ingresses/mandrill/inbound_emails#create
rails_mailgun_inbound_emails POST   /rails/action_mailbox/mailgun/inbound_emails/mime(.:format)
action_mailbox/ingresses/mailgun/inbound_emails#create
rails_conductor_inbound_emails GET    /rails/conductor/action_mailbox/inbound_emails(.:format)
rails/conductor/action_mailbox/inbound_emails#index
      POST   /rails/conductor/action_mailbox/inbound_emails(.:format)
rails/conductor/action_mailbox/inbound_emails#create
new_rails_conductor_inbound_email GET    /rails/conductor/action_mailbox/inbound_emails/new(.:format)
```

Abrimos el servidor con el comando rails s o rails server

Si bien se ve ya nos muestra nuestra pagina donde nos permitirá agregar un producto o compra.

(Aparece un comentario en letras verdes que dice que la compra fue destruida satisfactoriamente es porque estaba haciendo una prueba)



Buy was successfully destroyed.

# Buys

[New buy.](#)

Damos clic en New Buy y nos mostrara las cajas de textos donde ingresaremos los datos.

Guía 6.pdf

file:///home/dj/Descargas/Guía 6.pdf

7 de 10

Zoom automático

New buy

127.0.0.1:3000/buys/new

Getting Started

Páginas para d...

Página para vr...

Musicas Packs

Vocal Remover...

Online calcula...

6. Verificar el funcionamiento de las vistas.

6.1 En la vista mostrada anteriormente, presiona new buy, se mostrará el formulario para poder agregar datos a la aplicación.

AppScaffold

localhost:3000/buys/new

### New Buy

Category

Description

Amount

Create Buy

Back

6.2 Ingresar una nueva compra llenando el formulario, al presionar el botón **create buy**, el dato se ha creado y almacenado correctamente.

AppScaffold

localhost:3000/buys/2

Buy was successfully created.

Category: Ropa

Description: Uniforme de clase completo

## New buy

Category

Description

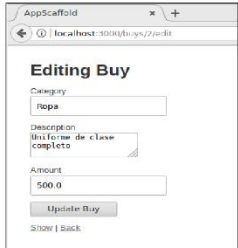
Amount

Create Buy

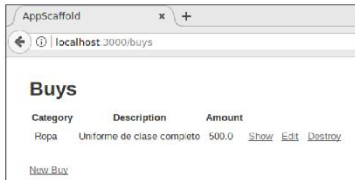
[Back to buys](#)

Acá ya hemos ingresado datos y se han guardado satisfactoriamente

1.1 Click en **Edit**, podrá observar que permite editar el dato anteriormente almacenado.



1.2 Verificar que se muestran los datos almacenados dentro del index de la aplicación.



Puede interactuar con la aplicación agregando nuevos datos, de manera que pruebe las distintas funcionalidades creadas haciendo uso de scaffold.

**Category:** Ropa

**Description:** Uniforme de clases completo

**Amount:** 500.0

[Edit this buy](#) | [Back to buys](#)

[Destroy this buy](#)

Si bien se observa en la imagen hay un error en la pagina porque se dio clic en CREATE BUY estando los campos vacíos eso se debe a las validaciones que se hicieron para que no se crearan datos vacíos.

2. Validaciones al modelo buy

Si el usuario agrega un nuevo dato en la aplicación, podrá agregar datos vacíos debido a que no se le ha agregado ningún tipo de validaciones al modelo. Una de las ventajas de Rails es permite validar los campos del formulario de una manera más sencilla, en este caso solo se validará que los campos del modelo no estén vacíos para poder agregar un nuevo dato a la aplicación.

2.1 Abrir el archivo `model/buy.rb` y agregar el siguiente código.

```
validates :category, :description, :amount, presence: true
```

Si ahora intenta agregar un nuevo dato vacío le mostrará un conjunto de mensajes a como se muestra en la siguiente figura.

## New buy

**3 errors prohibited this buy from being saved:**

- Category can't be blank
- Description can't be blank
- Amount can't be blank

Category

Description

Amount

[Back to buys](#)

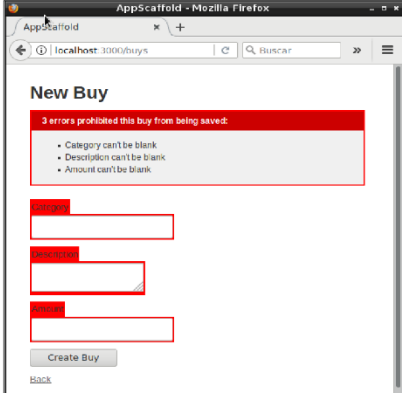


Figura 1 Campos del buy validados



Acá iniciamos el ejercicio propuesto 2, creamos nuestro proyecto.

```

dj@DeRUBY: ~/Documentos/P6
root@DeRUBY: /home/dj/Documentos/P6# ls
App_Scaffold
root@DeRUBY: /home/dj/Documentos/P6# rails new EApp
  create
  create  README.md
  create  Rakefile
  create  .ruby-version
  create  config.ru
  create  .gitignore
  create  .gitattributes
  create  Gemfile
  run     git init from "."
Inicializado repositorio Git vacío en /home/dj/Documentos/P6/EApp/.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
  create  app/views/layouts/mailer.text.erb
  create  app/views/pwa/manifest.json.erb
  create  app/views/pwa/service-worker.js
  create  app/assets/images
  create  app/assets/images/.keep
  create  app/controllers/concerns/.keep
  create  app/models/concerns/.keep
  create  bin
  create  bin/brakeman
  create  bin/rails
  create  bin/rake
  create  bin/rubocop
  create  bin/setup
  create  Dockerfile
  create  .dockerignore
  create  bin/docker-entrypoint
  create  .rubocop.yml
  create  .github/workflows
  create  .github/workflows/ci.yml
  create  .github/dependabot.yml
  create  config
  create  config/routes.rb
  create  config/application.rb
  create  config/environment.rb
  create  config/cable.yml
  create  config/puma.rb
  create  config/storage.yml
  create  config/environments
  create  config/environments/development.rb
  create  config/environments/production.rb
  create  config/environments/test.rb
  create  config/initializers

```

Generamos el scaffold.

```
root@DeRUBY:/home/dj/Documentos/P6# cd EApp
root@DeRUBY:/home/dj/Documentos/P6/EApp# rails generate scaffold Estudiante nombres:string apellidos:string carrera:string carnet:string fecha_de_nacimiento:date edad:integer celular:string
invoke    active_record
  create   db/migrate/20240910224514_create_estudiantes.rb
  create   app/models/estudiante.rb
invoke    test_unit
  create   test/models/estudiante_test.rb
  create   test/fixtures/estudiantes.yml
invoke    resource_route
  route    resources :estudiantes
invoke    scaffold_controller
  create   app/controllers/estudiantes_controller.rb
invoke    erb
  create   app/views/estudiantes
  create   app/views/estudiantes/index.html.erb
  create   app/views/estudiantes/edit.html.erb
  create   app/views/estudiantes/show.html.erb
  create   app/views/estudiantes/new.html.erb
  create   app/views/estudiantes/_form.html.erb
  create   app/views/estudiantes/_estudiante.html.erb
invoke    resource_route
invoke    test_unit
  create   test/controllers/estudiantes_controller_test.rb
  create   test/system/estudiantes_test.rb
invoke    helper
  create   app/helpers/estudiantes_helper.rb
invoke    test_unit
invoke    jbuilder
  create   app/views/estudiantes/index.json.jbuilder
  create   app/views/estudiantes/show.json.jbuilder
  create   app/views/estudiantes/_estudiante.json.jbuilder
root@DeRUBY:/home/dj/Documentos/P6/EApp#
```

## Migramos los datos

```

dj@DeRUBY: ~/Documentos/P6

root@DeRUBY: /home/dj/Documentos/P6/EApp# rails db:migrate
== 20240910224514 CreateEstudiantes: migrating =====
-- create_table(:estudiantes)
   -> 0.0011s
== 20240910224514 CreateEstudiantes: migrated (0.0012s) =====

root@DeRUBY: /home/dj/Documentos/P6/EApp#
```

Al Escribir el siguiente comando en el terminal y observar las rutas generadas.

\$ rake routes (“Debido a la actualización mas reciente de rails ya no se usa el comando rake sino \$rails routes”)

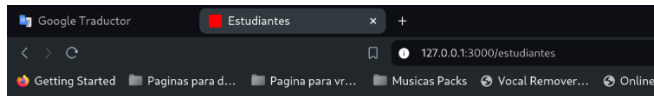
```

root@DeRUBY: /home/dj/Documentos/P6/EApp# rails routes
           Prefix Verb URI Pattern
estudiantes GET    /estudiantes/:id(.:format)
              POST    /estudiantes(.:format)
new_estudiante GET    /estudiantes/new(.:format)
edit_estudiante GET    /estudiantes/:id/edit(.:format)
estudiante GET    /estudiantes/:id(.:format)
              PATCH    /estudiantes/:id(.:format)
              PUT     /estudiantes/:id(.:format)
              DELETE   /estudiantes/:id(.:format)
root GET      /
rails_health_check GET    /up(.:format)
pwa_service_worker GET    /service-worker(.:format)
pwa_manifest GET    /manifest(.:format)
turbo_recede_historical_location GET    /recede_historical_location(.:format)
turbo_resume_historical_location GET    /resume_historical_location(.:format)
turbo_refresh_historical_location GET    /refresh_historical_location(.:format)
rails_postmark_inbound_emails POST   /rails/action_mailbox/postmark/inbound_emails(.:format)
rails_relay_inbound_emails POST   /rails/action_mailbox/relay/inbound_emails(.:format)
rails_sendgrid_inbound_emails POST   /rails/action_mailbox/sendgrid/inbound_emails(.:format)
rails_mandrill_inbound_health_check GET    /rails/action_mailbox/mandrill/inbound_emails(.:format)
rails_mandrill_inbound_emails POST   /rails/action_mailbox/mandrill/inbound_emails(.:format)
rails_mailgun_inbound_emails POST   /rails/action_mailbox/mailgun/inbound_emails/mime(.:format)
rails_conductor_inbound_emails GET    /rails/conductor/action_mailbox/inbound_emails(.:format)
new_rails_conductor_inbound_email GET    /rails/conductor/action_mailbox/inbound_emails/new(.:format)
rails_conductor_inbound_email GET    /rails/conductor/action_mailbox/inbound_emails/:id(.:format)
new_rails_conductor_inbound_email_source GET    /rails/conductor/action_mailbox/inbound_emails/sources/new(.:format)
rails_conductor_inbound_email_sources POST   /rails/conductor/action_mailbox/inbound_emails/sources(.:format)
rails_conductor_inbound_email_reroute POST   /rails/conductor/action_mailbox/:inbound_email_id/reroute(.:format)
rails_conductor_inbound_email_incinerate POST   /rails/conductor/action_mailbox/:inbound_email_id/incinerate(.:format)
rails_service_blob GET    /rails/active_storage/blobs/redirect/:signed_id/*filename(.:format)
rails_service_blob_proxy GET    /rails/active_storage/blobs/proxy/:signed_id/*filename(.:format)
rails_blob_representation GET    /rails/active_storage/representations/redirect/:signed_blob_id/:variation_key/*filename(.:format)
rails_blob_representation_proxy GET    /rails/active_storage/representations/proxy/:signed_blob_id/:variation_key/*filename(.:format)
rails_disk_service GET    /rails/active_storage/disk/:encoded_key/*filename(.:format)
update_rails_disk_service PUT     /rails/active_storage/disk/:encoded_token(.:format)
rails_direct_uploads POST   /rails/active_storage/direct_uploads(.:format)

Controller#Action
estudiantes#index
estudiantes#create
estudiantes#new
estudiantes#edit
estudiantes#show
estudiantes#update
estudiantes#update
estudiantes#destroy
estudiantes#index
rails/health#show
rails/pwa#service_worker
rails/pwa#manifest
turbo/native/navigation#recede
turbo/native/navigation#resume
turbo/native/navigation#refresh
action_mailbox/ingresses/postmark/inbound_emails#create
action_mailbox/ingresses/relay/inbound_emails#create
action_mailbox/ingresses/sendgrid/inbound_emails#create
action_mailbox/ingresses/mandrill/inbound_emails#health_check
action_mailbox/ingresses/mandrill/inbound_emails#create
action_mailbox/ingresses/mailgun/inbound_emails#create
rails/conductor/action_mailbox/inbound_emails#index
rails/conductor/action_mailbox/inbound_emails#create
rails/conductor/action_mailbox/inbound_emails#show
rails/conductor/action_mailbox/inbound_emails/sources#new
rails/conductor/action_mailbox/inbound_emails/sources#create
rails/conductor/action_mailbox/reroutes#create
rails/conductor/action_mailbox/incinerates#create
active_storage/blobs/redirect#show
active_storage/blobs/redirect#show
active_storage/blobs/proxy#show
active_storage/disk#show
active_storage/disk#update
active_storage/direct_uploads#create
```

Abrimos el servidor con el comando rails s o rails server

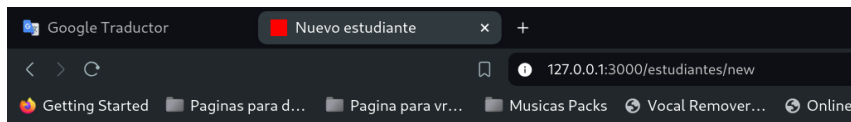
Si bien se ve ya nos muestra nuestra pagina donde nos permitirá agregar un Estudiante.



## Estudiantes

[Nuevo Estudiante](#)

Damos clic en Nuevo Estudiante y nos mostrara las cajas de textos donde ingresaremos los datos.



## Nuevo estudiante

Nombres

Apellidos

Carrera

Carnet

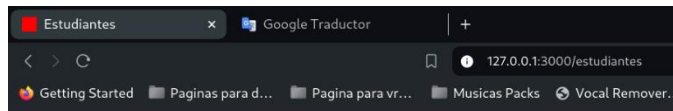
Fecha de nacimiento

Edad

Celular

[Regresar estudiantes](#)

Acá ya hemos ingresado datos y se han guardado satisfactoriamente



# Estudiantes

**Nombres:** Luis Adolfo

**Apellidos:** Diaz Mendoza

**Carrera:** Ingenieria en Telematica

**Carnet:** 18-00602-0

**Fecha de nacimiento:** 2001-05-17

**Edad:** 23

**Celular:** 83208862

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