

1. CRUD

2. RESTFUL ROUTES

3. SINATRA PREGUNTAS

CRUD

What does CRUD stand for?

CREATE
READ
UPDATE
DELETE

CRUD ---- HTTP VERB

CREATE ----- POST

READ ----- GET

UPDATE ----- PUT/PATCH

DELETE ----- DELETE

ACTIVERECORD - CREATE

Ways to create resources:

```
post '/caballos' do
  penelope = Caballo.create(params[:caballo])
  # -> <Caballo id=1 name=Penelope>
end
```

be careful - using the create method will always return the object regardless if it actually saves to the database (aka if it fails your validations)!

ACTIVERECORD - CREATE

Ways to create resources:

```
post '/caballos' do
  penelope = Caballo.new(params[:caballo])
  # -> <Caballo id=nil name=Penelope>
  penelope.save
  # -> true
end
```

ACTIVERECORD - CREATE

key takeaway -

use #new & #save

OR

use #create & #valid?

por que? to better control the flow of your application AND avoid your application breaking during user experience

ACTIVERECORD - UPDATE

```
put "/caballos/:caballo_id" do
  # we are receiving params[:caballo_name] from a form

  penelope = Caballo.find(params[:caballo_id])
  # -> <Caballo id=1 name=Penelope>

  penelope.name = params[:caballo_name]
  # -> "Priscilla"
  penelope.save
  # -> true
end
```


ACTIVERECORD - UPDATE

```
put "/caballos/:caballo_id" do
  penelope = Caballo.find(params[:caballo_id])
  # -> <Caballo id=1 name=Penelope>

  penelope.update_attributes(name: "Priscilla")
  # -> <Caballo id=1 name=Priscilla>
end
```

ACTIVERECORD - READ

```
#find
```

```
get '/caballos/:caballo_id' do
  penelope = Caballo.find(params[:caballo_id])
  # -> <Caballo id=1 name=Penelope>
end
```

```
#find_by
```

```
get '/caballos/:caballo_name' do
  penelope = Caballo.find_by(name: params[:caballo_name])
  # -> <Caballo id=1 name=Penelope>
end
```

ACTIVERECORD - READ

```
#all
```

```
get '/caballos' do  
  @all_caballos = Caballo.all  
end
```

```
#where
```

```
get '/caballos/:caballo_id' do  
  @caballo = Caballo.where(id: params[:caballo_id]).first  
end
```

ACTIVERECORD - DELETE

```
delete "/caballos/:caballo_id" do
  penelope = Caballo.find(params[:caballo_id])
  # -> <Caballo id=1 name=Penelope>

  penelope.destroy
  # -> <Caballo id=1 name=Penelope>
end
```

**PERO, TENEMOS UN
PROBLEMA GRANDE**

**MODERN DAY WEB
BROWSERS DO NOT
SUPPORT put OR
delete HTTP
REQUESTS**

```
<form action="/caballos/<%= caballo.id %>" method="post">
  <input type=hidden name=_method value=put / >
  <input type='text' name='caballo_name' />
  <input type=submit value="Submit Now" />
</form>
```

here, a HTTP `put` request is made to `/caballos/5`

WHAT IS REST?
WHAT ARE RESTFUL
ROUTES?

RESTFUL CONVENTIONS

CRUD, Request Types, and Paths			
<i>CRUD</i>	<i>Request</i>	<i>Path</i>	<i>Purpose</i>
<i>Read</i>	<i>Get</i>	<i>/caballos</i>	<i>list caballos</i>
<i>Read</i>	<i>Get</i>	<i>/caballos/new</i>	<i>form for new caballo</i>
<i>Create</i>	<i>Post</i>	<i>/caballos</i>	<i>new caballo</i>
<i>Read</i>	<i>Get</i>	<i>/caballos/:id</i>	<i>specific caballo</i>
<i>Read</i>	<i>Get</i>	<i>/caballos/:id/edit</i>	<i>edit form</i>
<i>Update</i>	<i>Put</i>	<i>/caballos/:id</i>	<i>update caballo</i>
<i>Delete</i>	<i>Delete</i>	<i>/caballos/:id</i>	<i>delete caballo</i>

WHY FOLLOW REST CONVENTIONS?

WHY FOLLOW RESTFUL CONVENTIONS?

- ORGANIZATION
- BEST PRACTICES
- CLEAN, SIMPLE
- ONE LESS THING TO THINK ABOUT

NESTED RESOURCES

CRUD, Request Types, and Paths			
CRUD	Request	Path	Purpose
Read	Get	/breeds/:breed_id/caballos	list caballo for a breed
Read	Get	/breeds/:breed_id/caballos/new	return form for new caballo belonging to a breed.
Create	Post	/breeds/:breed_id/caballos	new caballo belonging to breed
Read	Get	/breeds/:breed_id/caballos/:id	show specific caballo belonging to a breed
Read	Get	/breeds/:breed_id/caballos/:id/edit	return form for editing caballo belonging to a breed
Update	Put	/breeds/:breed_id/caballos/:id	update specific caballo belonging to a breed
Delete	Delete	/breeds/:breed_id/caballos/:id	delete specific caballo belonging to a breed

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