



Create Action  
(Time Entries)

# We created projects

1. A user visits a page that contains a form
2. The user fills the form and submits it
3. An action receives that information and creates project

# The common way to implement the Create

1. A user visits a page that contains a form
2. The user fills the form and submits it
3. An action receives that information and processes it:
  1. if it's valid, then the entity is created
  2. if it's invalid, then renders the template with the form and some validation errors

1. A user visits a page that contains a form

Http Method: **GET**

URL path: **/<resource>/new**

HTML template: **<form ...>**

## 2. The user fills the form and submits it

- **Nothing we can do in the backend -**

3. An action receives that information and process it

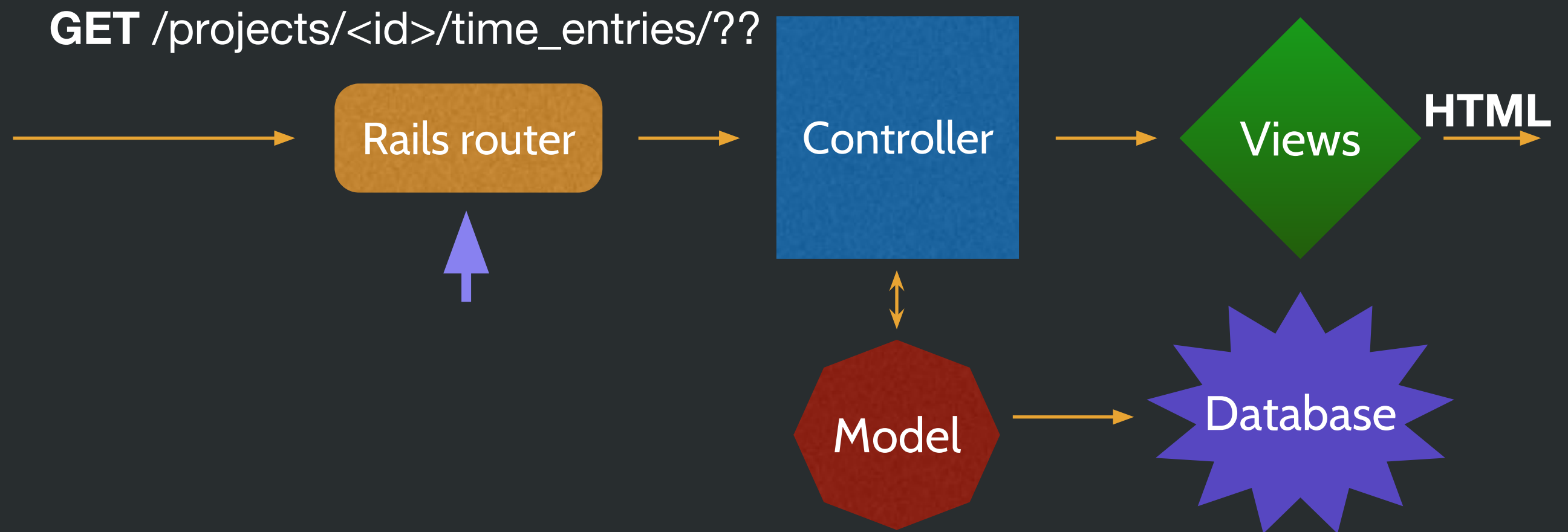
Http Method: **POST**

URL path: **/<resource>**

HTML template: **(no template)**

# Implementing the “form” action

# Implementing the “form” action





# Implementing the “form” action

**GET /projects/:project\_id/time\_entries/new**

# Implementing the new action

app/controllers/time\_entries\_controller.rb

```
class TimeEntriesController < ApplicationController
  def new
    @my_project = Project.find(params[:project_id])
    @my_entry = @my_project.time_entries.new
  end
end
```

# Implementing the new action

app/views/time\_entries/new.html.erb

```
<%= form_for [@my_project, @my_entry] do |f| %>
  ...
<% end %>
```

# Implementing the new action

app/views/time\_entries/new.html.erb

```
<%= form_for [@my_project, @my_entry] do |f| %>
  <%= f.label :hours %>
  <%= f.text_field :hours %>
<% end %>
```

# Implementing the new action

## app/views/time\_entries/new.html.erb

```
<%= form_for [@my_project, @my_entry] do |f| %>

  <%= f.label :hours %>
  <%= f.text_field :hours %>
  <br>

  <%= f.label :minutes %>
  <%= f.text_field :minutes %>
  <br>

  <%= f.label :date %>
  <%= f.date_field :date %>
  <br>

  <%= f.submit "Save" %>

<% end %>
```

```
$ rails s
```

[http://localhost:3000/projects/1/time\\_entries/new](http://localhost:3000/projects/1/time_entries/new)

# NoMethodError in Entries#new

Showing /Users/fernando/proyectos/ironhack/timetracking/app/views/entries/new.html.erb where line #9 raised:

undefined method `project\_entries\_path' for #<#<Class:0x007fc5f6e1eb50>:0x007fc5f6e1dde0>

Extracted source (around line #9):

```
6     </ul>
7   <% end %>
8
9   <%= form_for [@project, @entry] do |f| %>
10     <%= f.label :hours %>
11     <%= f.text_field :hours %>
12     <br>
```

Rails.root: /Users/fernando/proyectos/ironhack/timetracking

[Application Trace](#) | [Framework Trace](#) | [Full Trace](#)

app/views/entries/new.html.erb:9:in `\_app\_views\_entries\_new\_html\_erb\_\_4098725765017094425\_70244113704840'

## Request

Parameters:

undefined method `project\_time\_entries\_path' for...



# Rails route helpers



Rails internally uses  
route helpers to build  
the forms

But there's nothing called  
`project_time_entries_path`

```
Timetracking::Application.routes.draw do

  get "/", to: "site#home"

  get "/projects", to: "projects#index"
  get "/projects/:id", to: "projects#show"
  get "/projects/new", to: "projects#new"
  post "/projects", to: "projects#create"

  get "/projects/:project_id/time_entries", to: "time_entries#index"
  get "/projects/:project_id/time_entries/new", to: "time_entries#new"
end
```

```
Timetracking::Application.routes.draw do
  get "/", to: "site#home"

  get "/projects", to: "projects#index"
  get "/projects/:id", to: "projects#show"
  get "/projects/new", to: "projects#new"
  post "/projects", to: "projects#create"

  get "/projects/:project_id/time_entries", to: "time_entries#index"
  get "/projects/:project_id/time_entries/new", to: "time_entries#new"
  post "/projects/:project_id/time_entries",
    to: "time_entries#create", as: :project_time_entries
end
```

\$ rake routes

Prefix	Verb	URI Pattern	Controller#action
	GET	/	site#home
calculator	GET	/calculator(:format)	site#calculator
calculate	POST	/calculate(:format)	site#calculate
no_projects_found	GET	/no_projects_found(:format)	projects#notfound
projects	GET	/projects(:format)	projects#index
	GET	/projects/:id(:format)	projects#show
projects_new	GET	/projects/new(:format)	projects#new
	POST	/projects(:format)	projects#create
	GET	/projects/:project_id/time_entries(:format)	time_entries#index
	GET	/projects/:project_id/time_entries/new(:format)	time_entries#new
Project_time_entries	POST	/projects/:project_id/time_entries(:format)	time_entries#create



`$ rails s`

<http://localhost:3000/projects/1/entries/new>

Try and submit the form

## Unknown action

The action 'create' could not be found for EntriesController



# Implementing the create action

app/controllers/time\_entries\_controller.rb

```
class TimeEntriesController < ApplicationController
  def create
  end
end
```

## Template is missing

Missing template entries/create, application/create with {:locale=>[:en], :formats=>[:html], :handlers=>[:erb, :builder, :raw, :ruby, :jbuilder, :coffee]}. Searched in: \*  
"/Users/fernando/proyectos/ironhack/timetracking/app/views"

# The log!

```
Started POST "/projects/2/time_entries" for 127.0.0.1 at 2014-02-17 19:
35:44 +0100
Processing by TimeEntriesController#create as HTML
  Parameters: {"utf8"=>"✓", "authenticity_token"=>"...", "time_entry"=>
{"hours"=>"3", "minutes"=>"45", "date"=>"2014-02-06"}, "project_id"=>"2",
"commit"=>"Save"}
Completed 500 Internal Server Error in 2ms
```

# The log!

```
"time_entry"=>
{
  "hours"=>"3",
  "minutes"=>"45",
  "date"=>"2014-02-06"
},
"project_id"=>2
```



Params

# Input names from helpers

```
<label for="time_entry_hours">Hours</label>
<input id="time_entry_hours" name="time_entry[hours]" type="text" />
<br>
<label for="time_entry_minutes">Minutes</label>
<input id="time_entry_minutes" name="time_entry[minutes]" type="text" />
<br>
<label for="time_entry_date">Date</label>
<input id="time_entry_date" name="time_entry[date]" type="date" />
<br>
<input name="commit" type="submit" value="Save" />
```

# Implementing the create action

## 1. Load existing project

```
@my_project = Project.find params[:project_id]
```

# Implementing the create action

2. Instantiate a new entry in the loaded project with the data from the form

```
@my_entry = @my_project.time_entries.new(  
  hours: params[:time_entry][:hours],  
  minutes: params[:time_entry][:minutes],  
  date: params[:time_entry][:date])
```

# Implementing the create action

3. Try to save in the database:
- if success, then perform a redirection
  - if fails, render the “new” form

```
if @my_entry.save
  redirect_to action: "index", controller: "time_entries",
    project_id: @my_project.id
else
  render "new"
end
```



Back to our app...



# Displaying validation errors

# Time tracking tool

—

- Hours is not a number
- Hours can't be blank
- Minutes is not a number
- Minutes can't be blank
- Date can't be blank

Hours

Minutes

Date

[Cancel](#)

```
> my_project = Project.new
```

```
> my_project.errors.empty?
```

```
=> true
```

```
> my_project.valid?
```

```
=> false
```



validations

```
> my_project.errors.empty?
```

```
=> false
```

```
> my_project.errors.size
```

```
=> 2
```

```
> my_project.errors.full_messages
```

```
=> ["Name can't be blank", "Name is invalid"]
```

```
<% if @my_entry.errors.any? %>
  <ul>
    <% @my_entry.errors.full_messages.each do |error_msg| %>
      <li><%= error_msg %></li>
    <% end %>
  </ul>
<% end %>
```

# (Continued)

```
<%= form_for [@project, @entry] do |f| %>
  <%= f.label :hours %>
  <%= f.text_field :hours, size: 4 %>
  <br>
  <%= f.label :minutes %>
  <%= f.text_field :minutes, size: 4 %>
  <br>
  <%= f.label :date %>
  <%= f.date_field :date, size: 4 %>
  <br>
  <%= f.submit "Save" %>
<% end %>
```

```
<div class="field_with_errors">
  <label for="entry_hours">Hours</label>
</div>

<div class="field_with_errors">
  <input id="entry_hours" name="entry[hours]" size="4" type="text">
</div>
```



Remember to commit  
your changes in git