



# The Create Action

Project model



# Adding projects

Yesterday we saw how to use models in our routes.

You also learned about add new data to your app with the Address Book.

# Adding projects

Today we are going to apply that knowledge to our time tracking app.

Let's allow users to **add new Projects** in the application.

# The submission process

*As you should already know, form submission in a Web application is a*  
**3-step process.**

# The submission process

In Rails, that process involves two routes:  
**new** and **create**.

# There are always 2 routes involved with forms:

- One to show the form
- Another to receive the form submission

# The submission process

(1) The **new** action shows the user a form.

We need it to show a form for adding a new project.

# The submission process

(2) On the **new** page, the user fills out the form and submits it.

When they submit the form, the browser should take them to the **create** route.



# The submission process

(3) The **create** action receives the data from the form and processes it.

In this case we want to save the data as a new project in the database.

# (1) The **new** action

Let's start with our route for the **new** action.

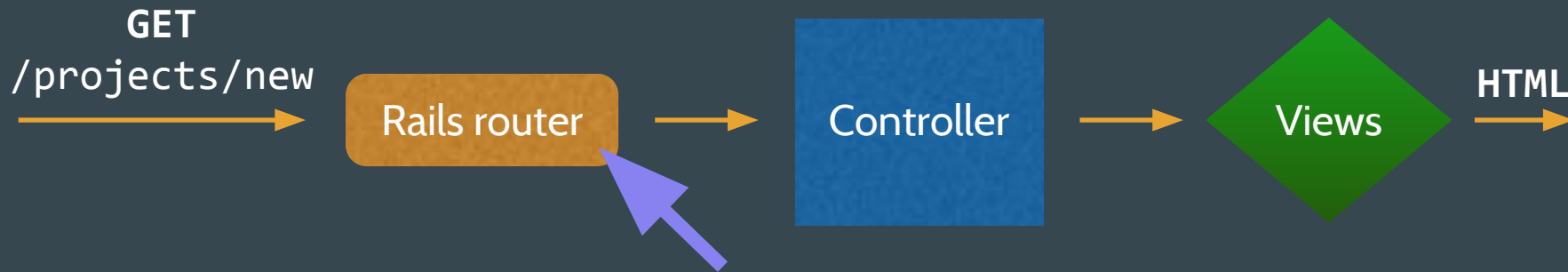
HTTP method	<b>GET</b>
URL	<b>/projects/new</b>

# (1) The **new** action

Why is it a **GET** request?

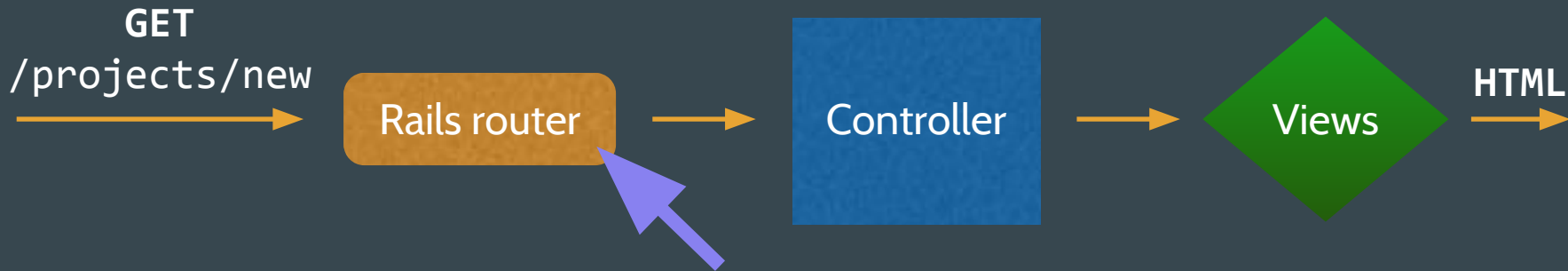
Why should we call the action **new**?

HTTP method	<b>GET</b>
URL	<b>/projects/new</b>



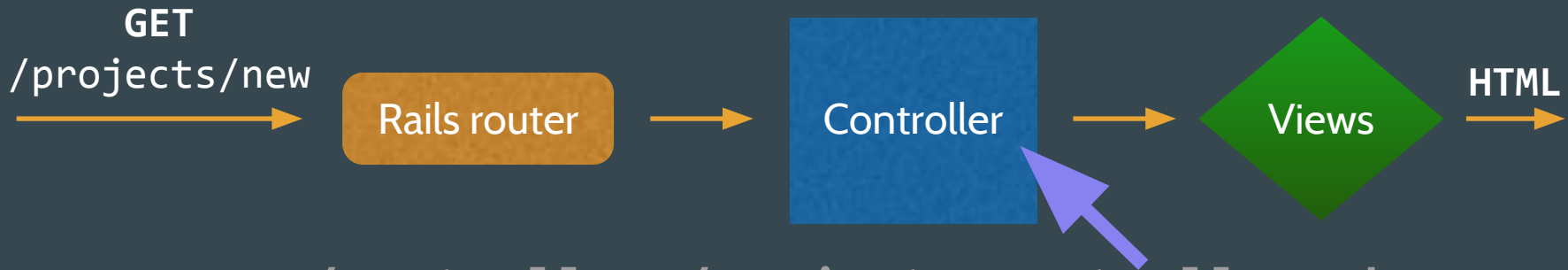
`config/routes.rb`

```
get '/projects/new', to: 'projects#new'
```



`config/routes.rb`

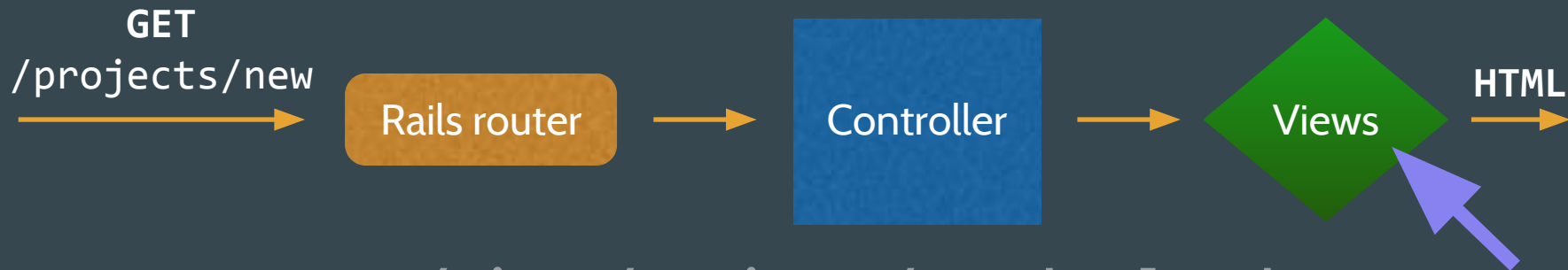
```
get '/projects/new', to: 'projects#new'  
  
# Needs to go below /projects/new  
get '/projects/:id', to: 'projects#show'
```



app/controllers/projects\_controller.rb

```
class ProjectsController < ApplicationController
  # [...]

  def new
    @my_project = Project.new
    render "new"
  end
end
```



`app/views/projects/new.html.erb`

```
<h1>Add a project</h1>
<%= form_for @my_project do |f| %>
  <%= f.label :name %>
  <%= f.text_field :name %>

  <%= f.label :description %>
  <%= f.text_area :description %>

  <%= f.button %>
<% end %>
```

# (1) Check your wiring

```
class ProjectsController < Applic...  
  # [...]  
  
  def new  
    @my_project = Project.new  
    render "new"  
  end  
end
```

projects\_controller.rb

```
<h1>Add a project</h1>  
<%= form_for @my_project do |f| %>  
  <%= f.label :name %>  
  <%= f.text_field :name %>  
  
  <%= f.label :description %>  
  <%= f.text_area :description %>  
  
  <%= f.button %>  
<% end %>
```

projects/new.html.erb



# (1) Check your wiring

```
create_table "projects", ... do |t|
  t.string "name"
  t.text "description"
  t.datetime "created_at", ...
  t.datetime "updated_at", ...
end
```

db/schema.rb

```
<h1>Add a project</h1>
```

```
<%= form_for @my_project do |f| %>
  <%= f.label :name %>
  <%= f.text_field :name %>

  <%= f.label :description %>
  <%= f.text_area :description %>

  <% end %>
```

projects/new.html.erb

## (2) Submitting the form

The user submits the form to the POST request.

## (3) The **create** action

Let's start with our route for the **create** action.

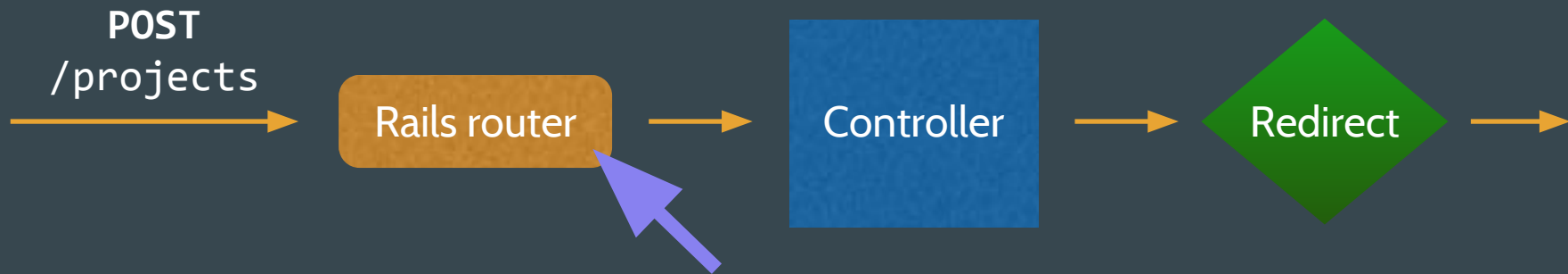
HTTP method	<b>POST</b>
URL	<b>/projects</b>

## (3) The **create** action

Why is it a **POST** request?

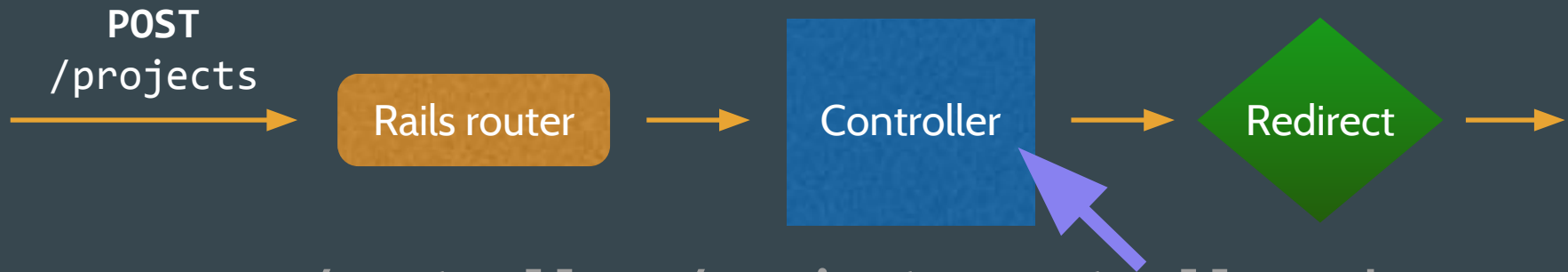
Notice the URL *isn't* **/projects/create**.

HTTP method	<b>POST</b>
URL	<b>/projects</b>



`config/routes.rb`

```
post '/projects', to: 'projects#create'
```



`app/controllers/projects_controller.rb`

```
class ProjectsController < ApplicationController
  # [...]

  def create
    @my_project = Project.new(
      :name => params[:project][:name],
      :description => params[:project][:description])
    @my_project.save

    redirect_to "/projects/#{@my_project.id}"
  end
end
```

Always redirect after a  
**successful** POST request.



Remember to commit your changes to Git.