



The very first request

HTTP Requests Simplified

Read Request

<http://www.ironhack.com>

GET /			
HTTP Verb:	URI:	Parameters:	Response:
GET	/		200 OK

Read Request

GET /projects

HTTP Verb:

GET

URI:

/projects

Parameters:

Response:

200 OK

Creation Request

POST /newsletter [email=rafa@ironhack.com]

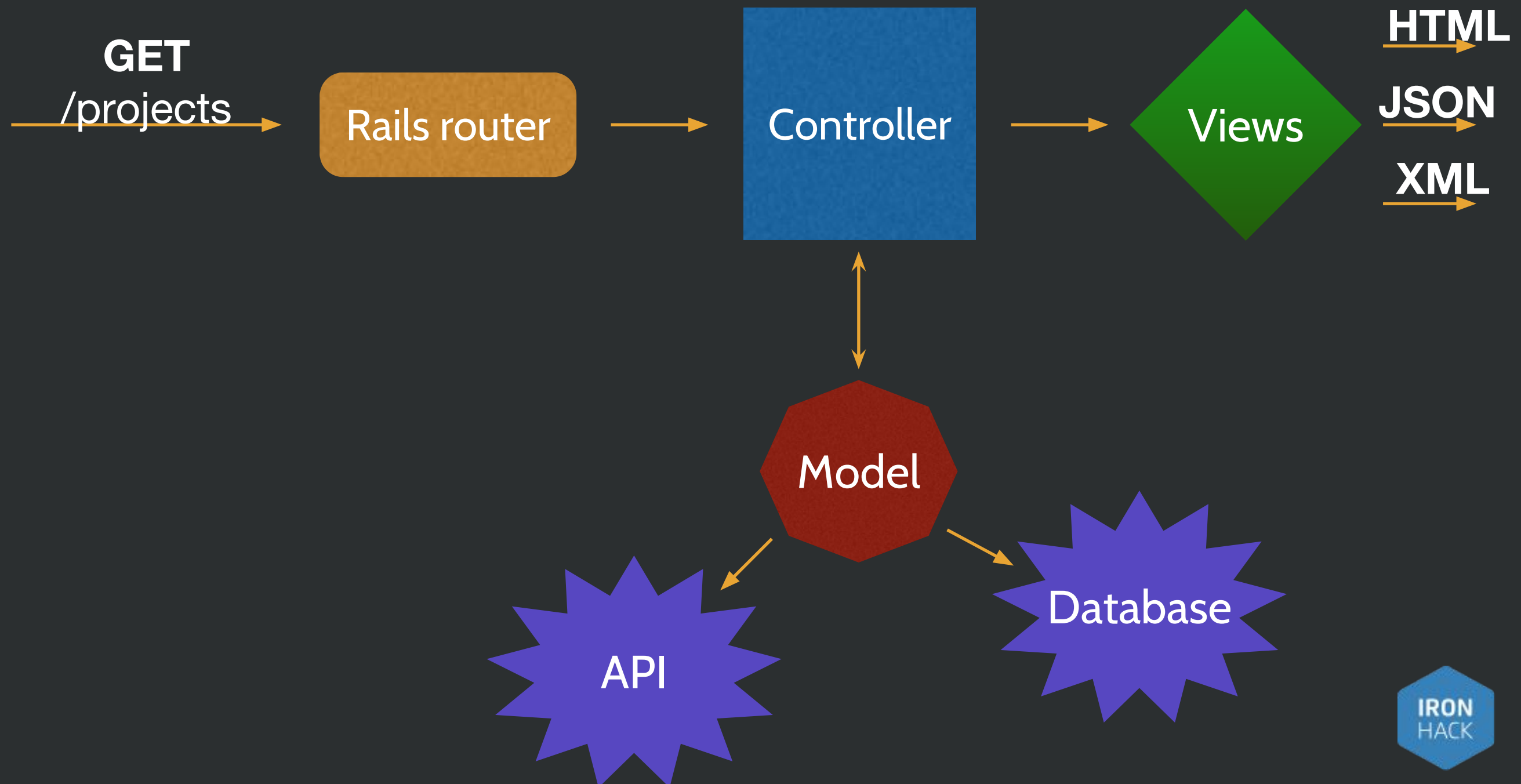
HTTP Verb:	URI:	Parameters:	Response:
POST	/newsletter	email=rafa@ironhack.com	201 Created

Model View Controller (MVC)

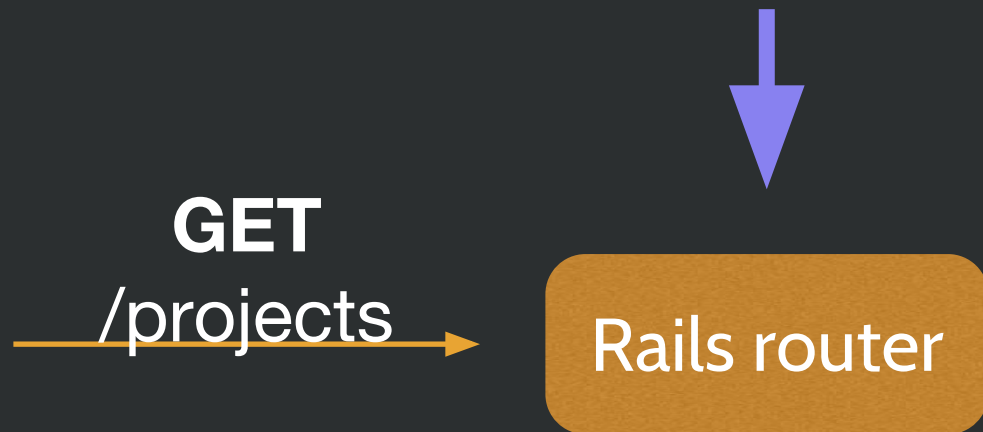
MVC

1. Software pattern that stands for Model - View - Controller
2. Invented in 70s to implement user interfaces
3. Each component has clear responsibilities

MVC



MVC



The **router** picks the controller and action that should respond to the request **GET /projects**

GET /projects

Time tracking tool

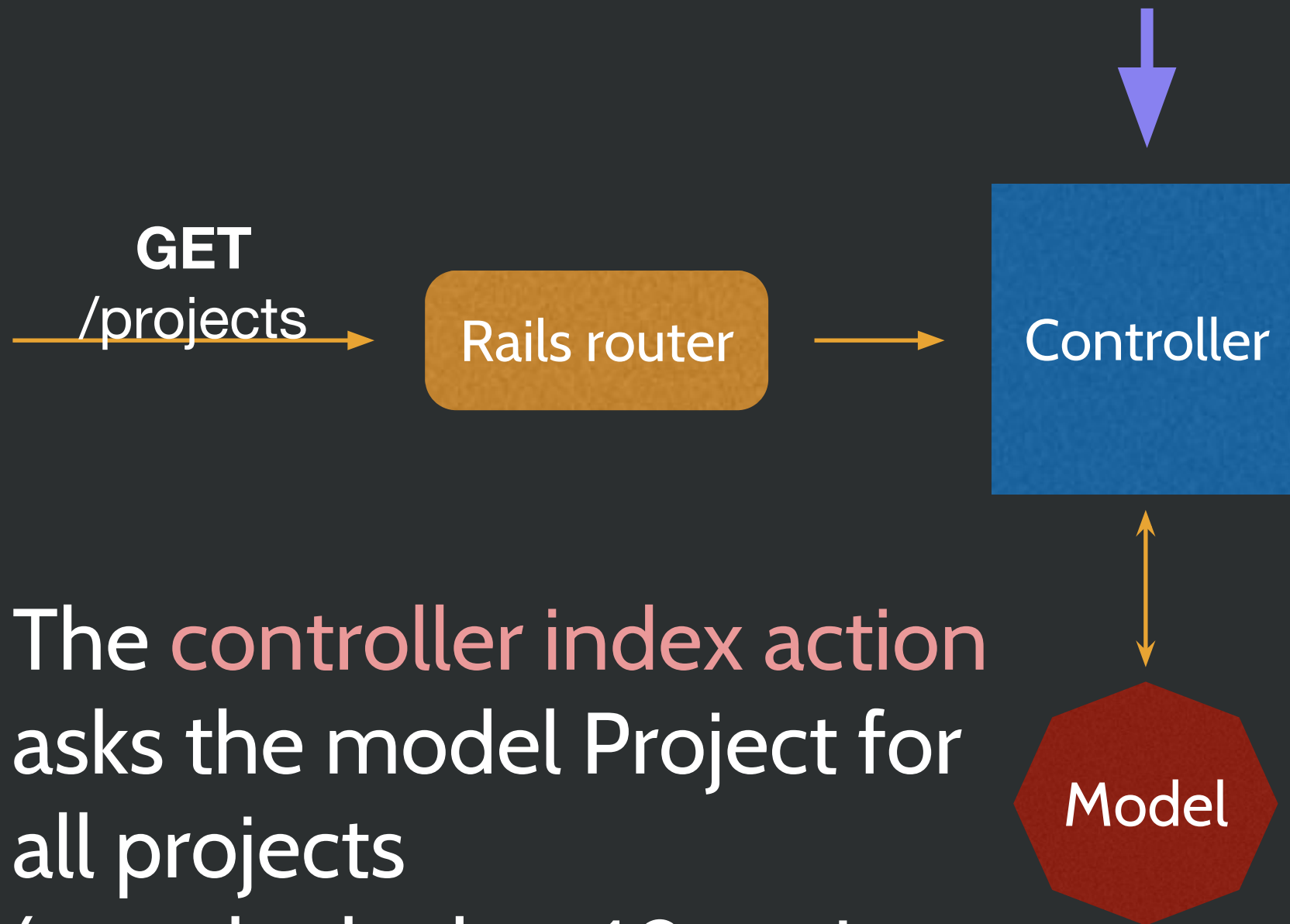
—

Projects

- [Toldo](#) - Integrate payments with Recurly
- [Ironhack](#) - Rails introduction week #4

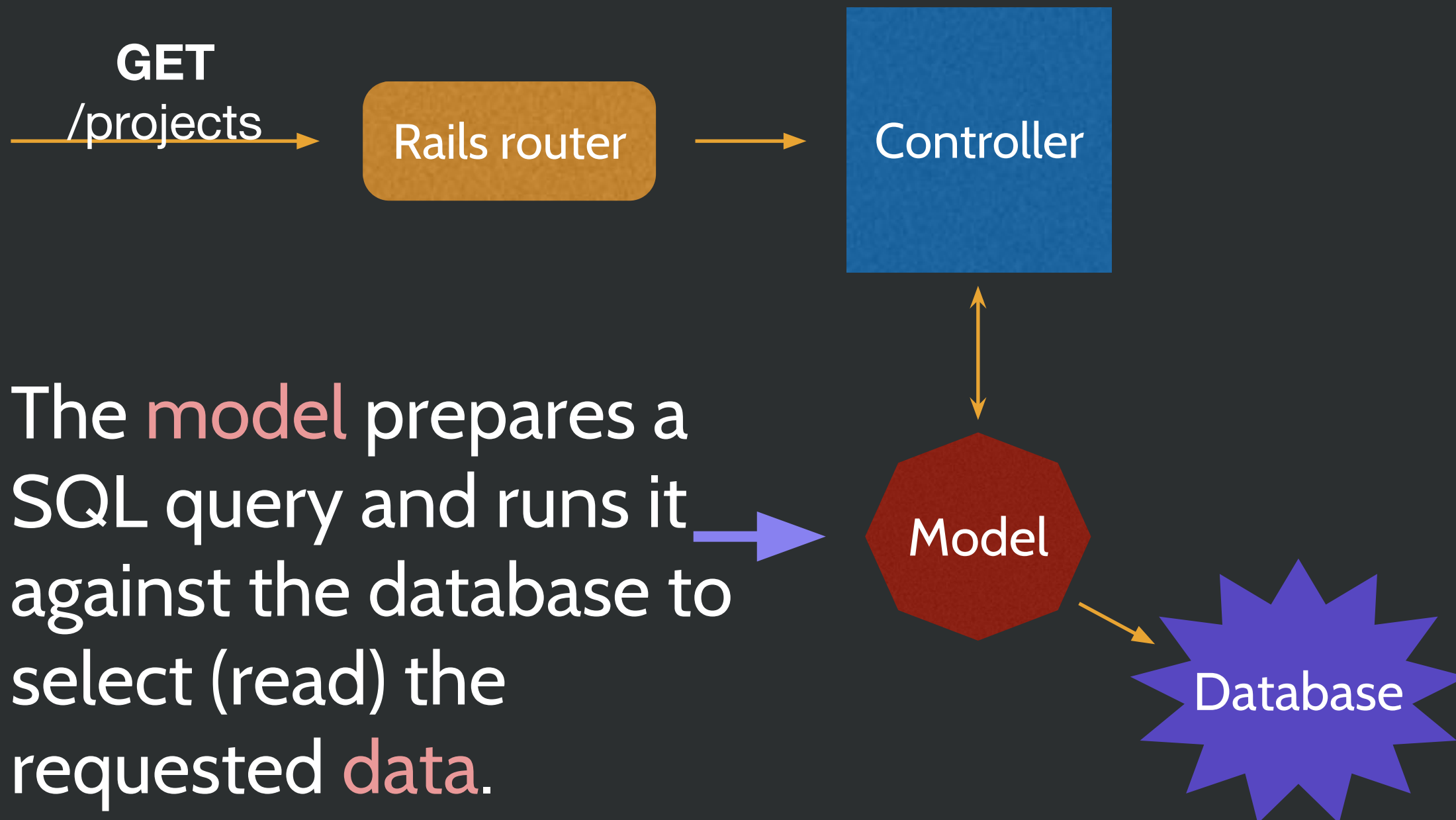
Ironhack - Rails introduction

MVC

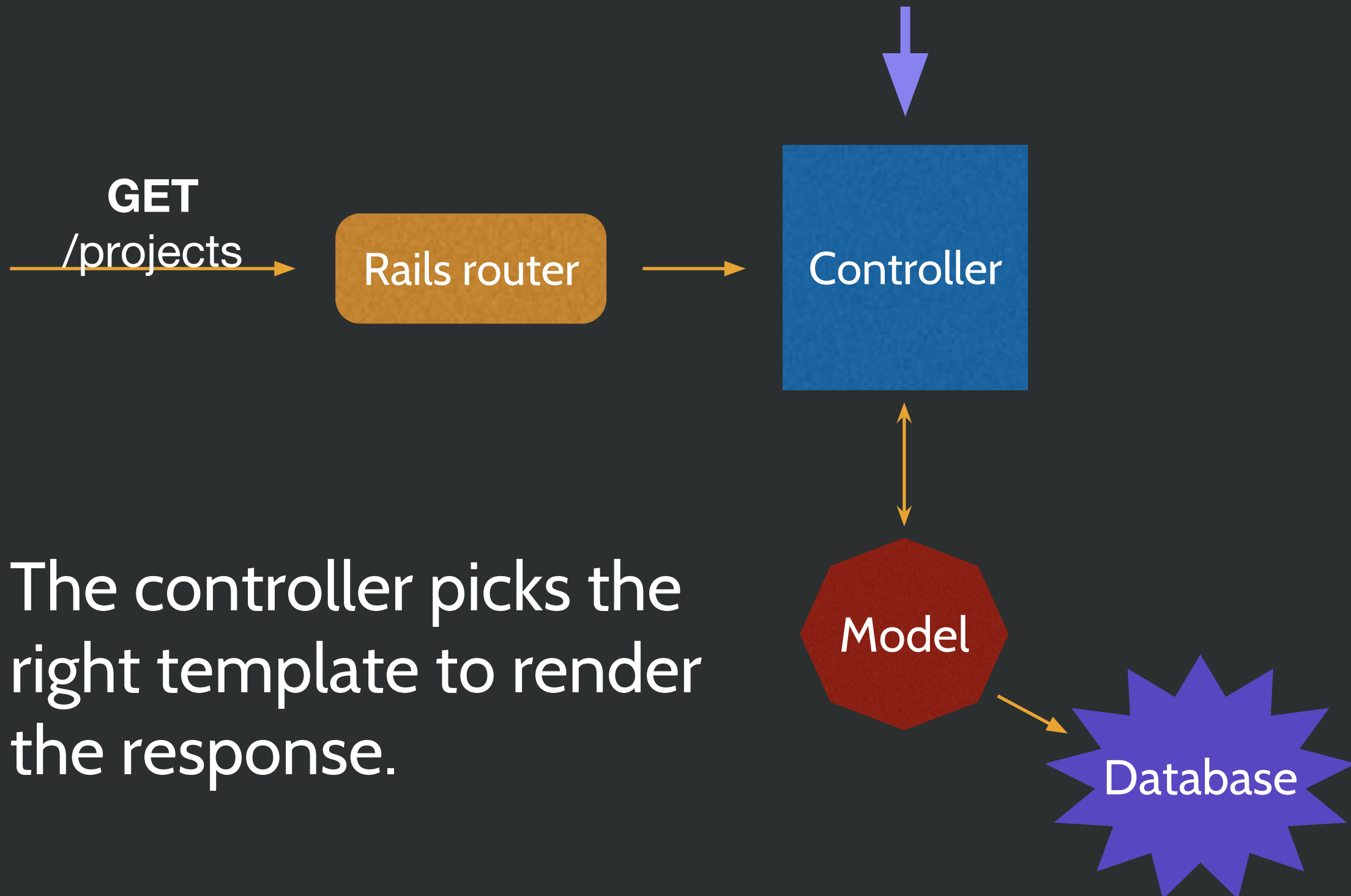


The **controller index action** asks the model Project for all projects (or only the last 10 projects created).

MVC

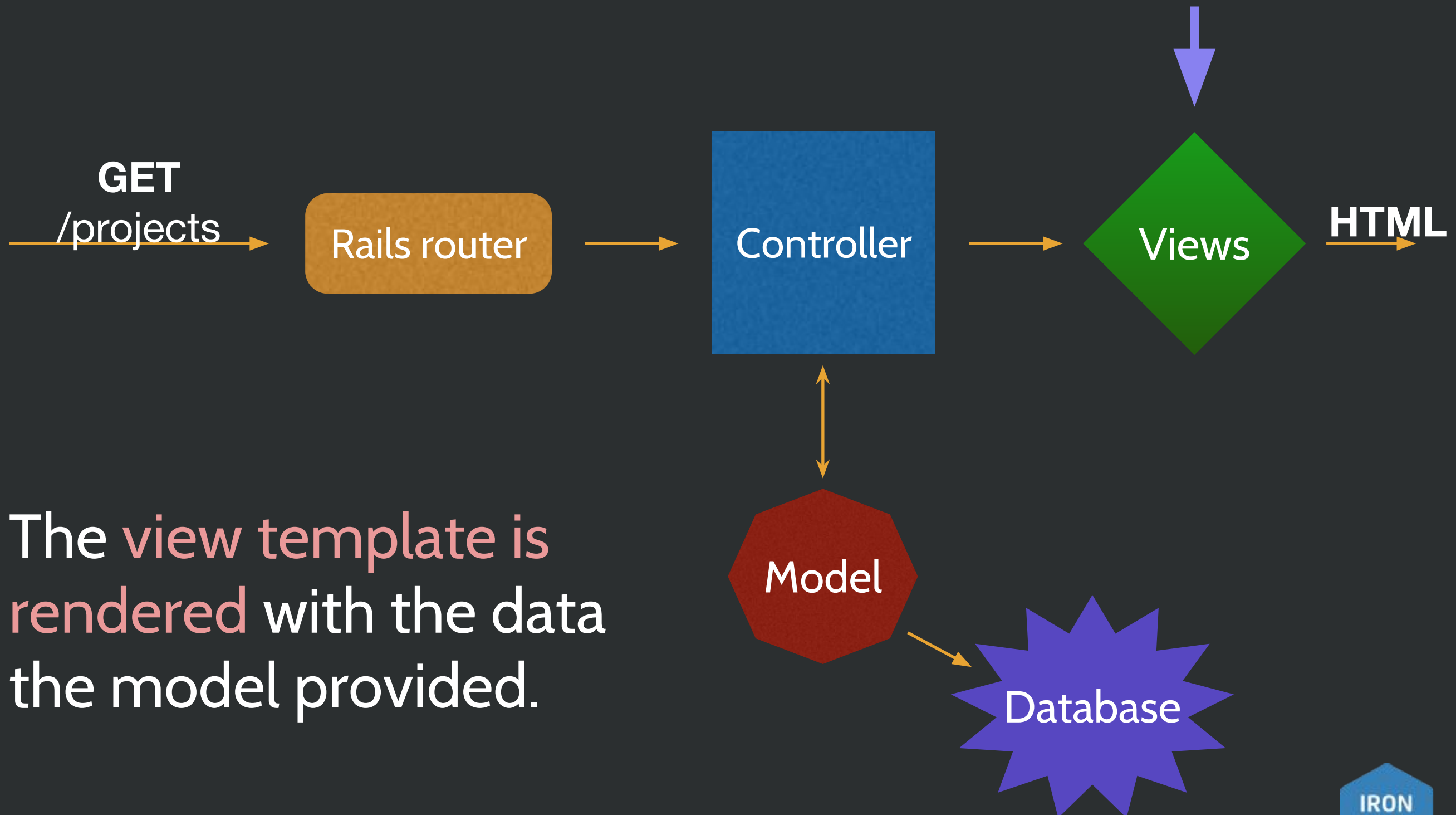


MVC



The controller picks the right template to render the response.

MVC



The **view** template is **rendered** with the data the model provided.

GET /projects

Time tracking tool

—

Projects

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Ironhack - Rails introduction

GET /

Time tracking tool

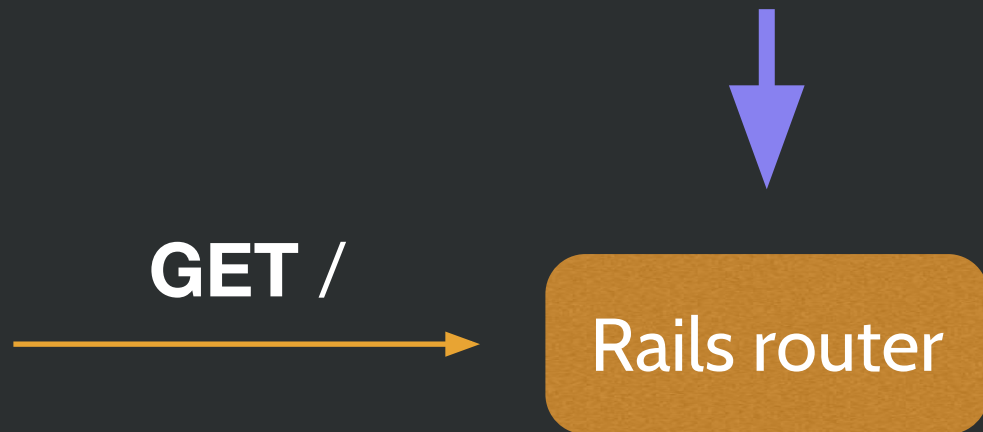
—

Welcome to this timetracking tool

[Visit your projects](#)

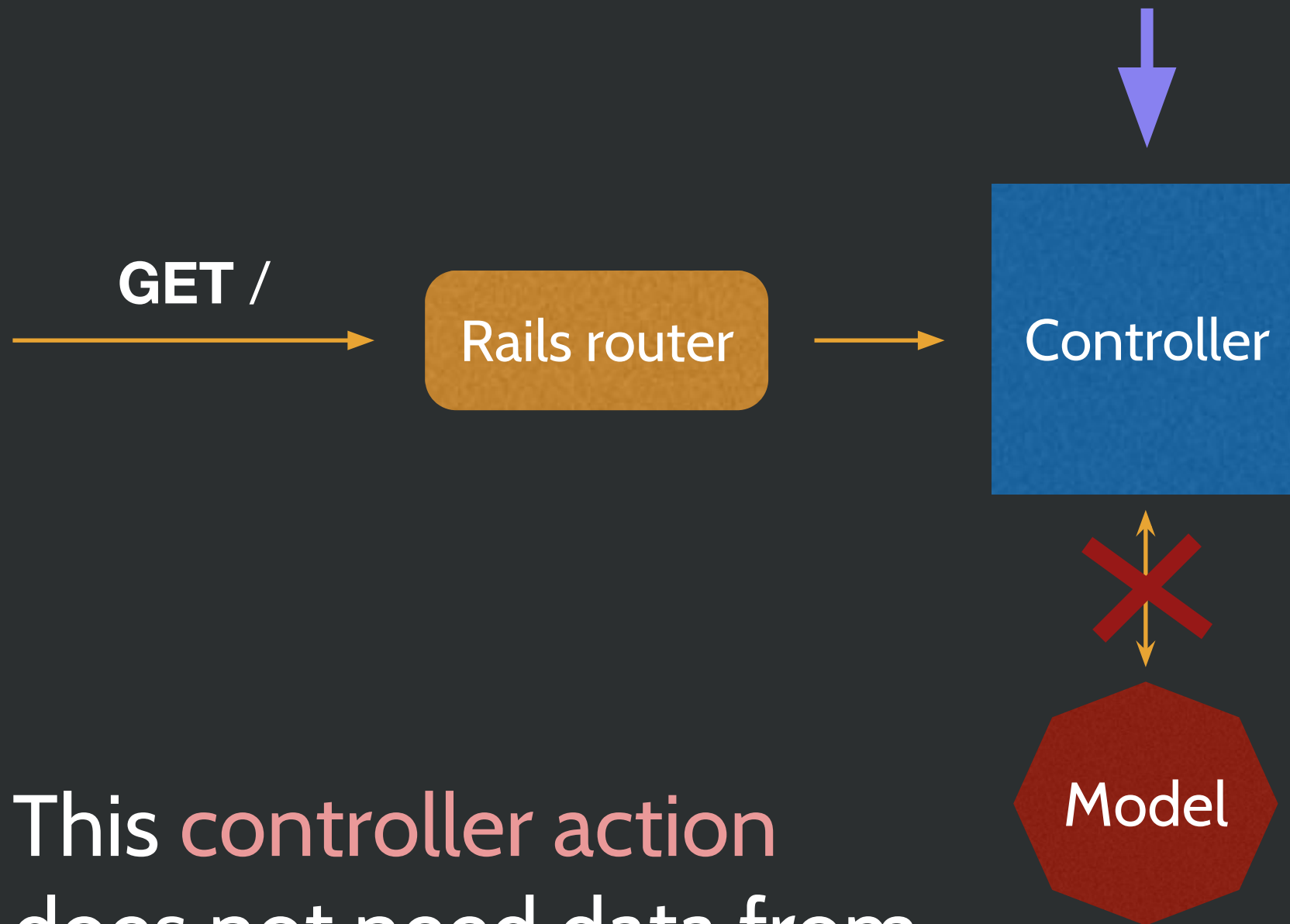
Ironhack - Rails introduction

MVC



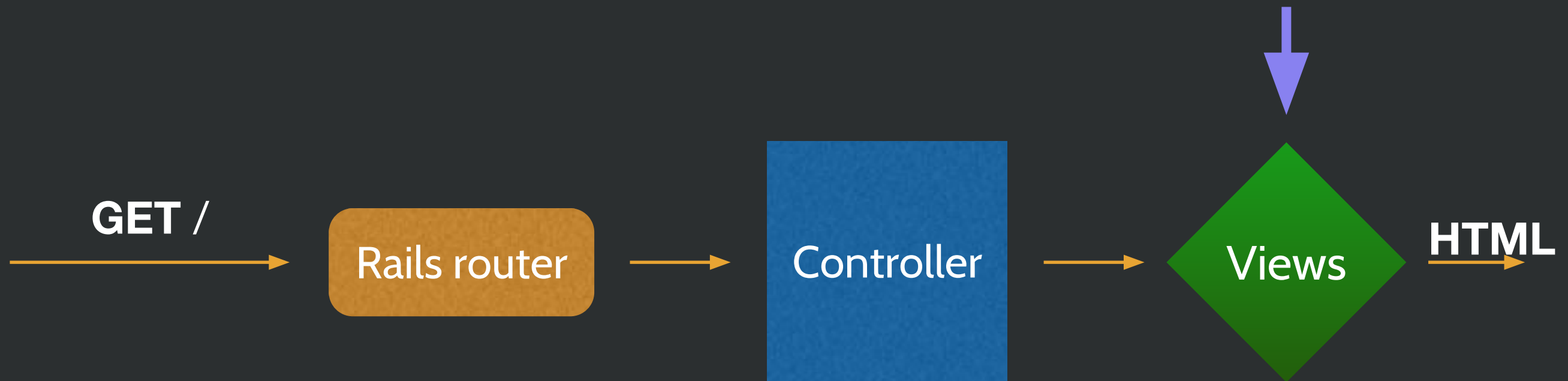
The **router** picks the controller and action that should respond to the request **GET /**

MVC



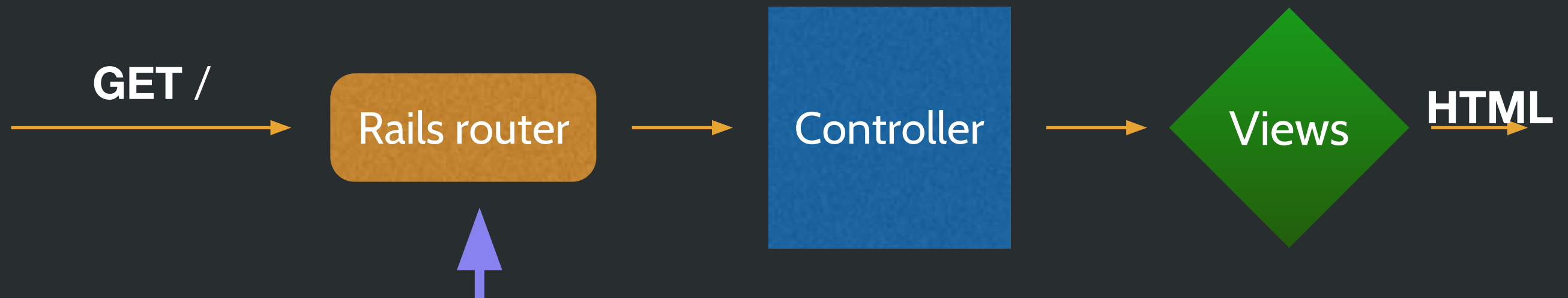
This **controller action** does not need data from the model.

MVC



The **controller** picks the correct **template** and **renders the view** (in the correct format).

Our first request:
a homepage





`config/routes.rb`



config/routes.rb

```
Rails.application.routes.draw do
```

```
  get '/' => 'site#home'
```

```
end
```



config/routes.rb

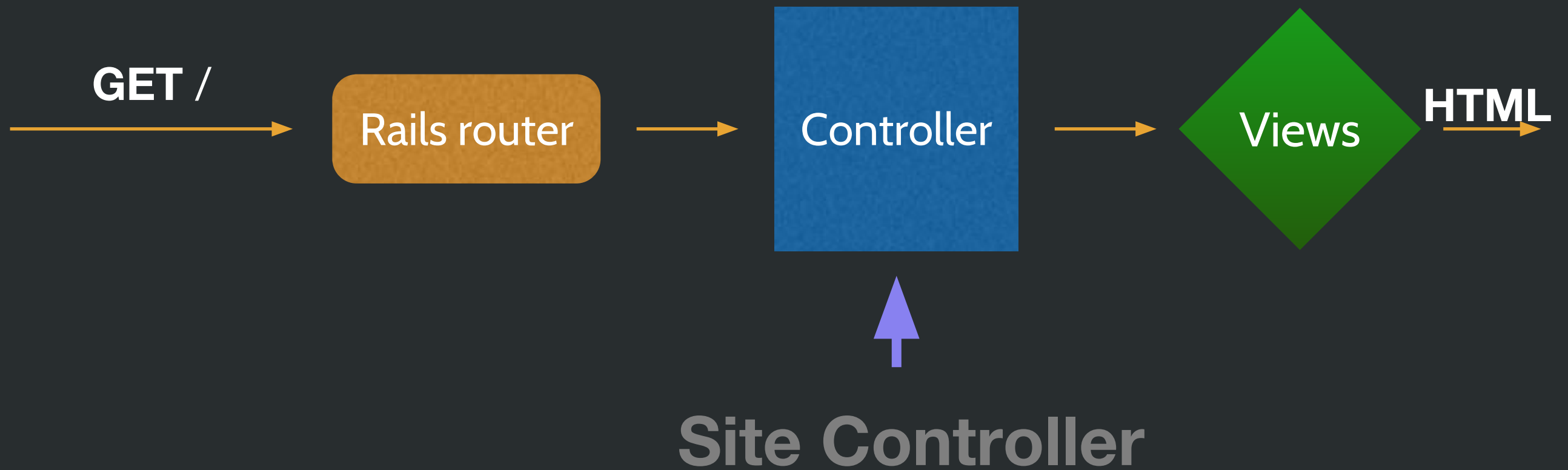
get '/' => 'site#home'

HTTP verb

URI

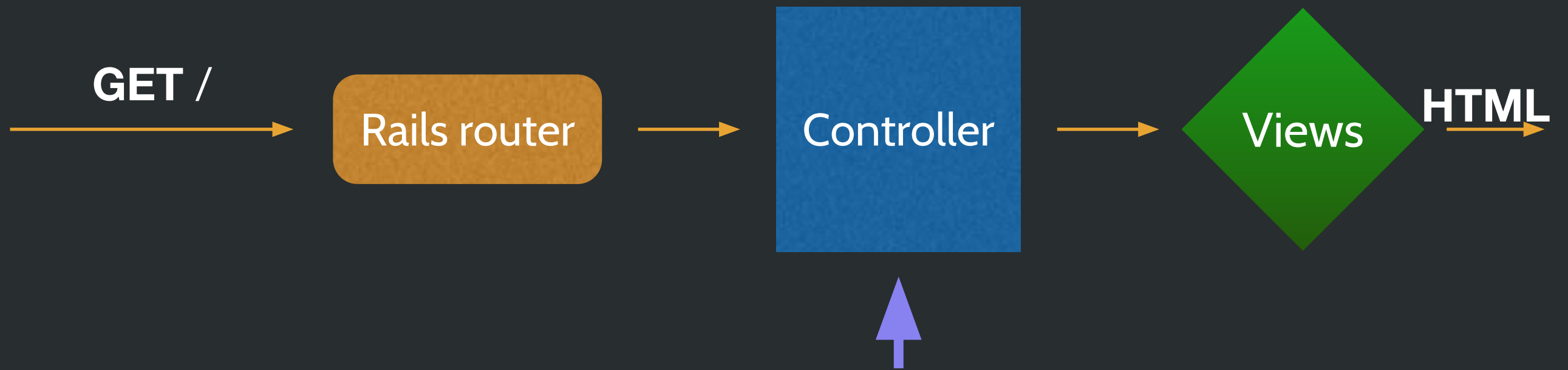
Controller

Action



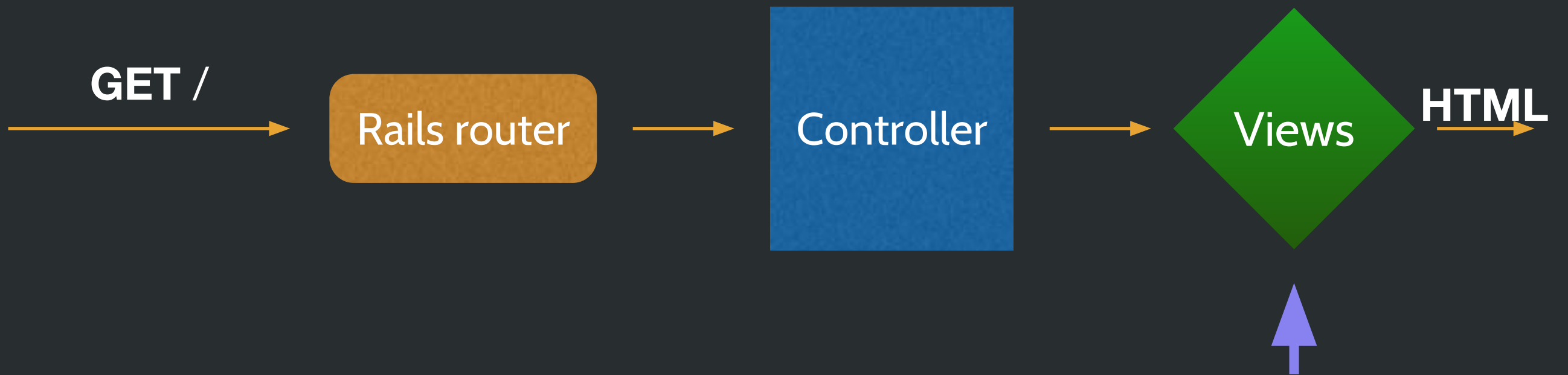
```
$ rails generate controller site
```

```
app/controllers/site_controller.rb
```



`app/controllers/site_controller.rb`

```
class SiteController < ApplicationController
  def home
    render 'home' # name of view template
  end
end
```



app/views/site/home.html.erb

`<h1>Welcome to this timetracking tool</h1>`

`<p>Ironhack powered</p>`



Run the server

```
$ rails server
```

And visit

<http://localhost:3000>

Exercise

Implement a contact page which will display the email address contact@example.com using the Site controller

The page should be available in /contact URI

Exercise

1. Remove the method call to render in both actions home and contact
2. Is it still working? Why?
3. Check in your terminal to see which template is being rendered.

Naming conventions

Controller name = views folder name

`app/controllers/site_controller.rb`

`app/views/site/home.html.erb`

Action name = template file name

```
class SiteController < ApplicationController
```

```
  def home
```

```
  end
```

```
end
```

`app/views/site/home.html.erb`



Remember to commit
the changes