Our First Routes

HTTP Requests Simplified

Read Request

http://www.ironhack.com

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

Read Request

GET /projects

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

Creation Request

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

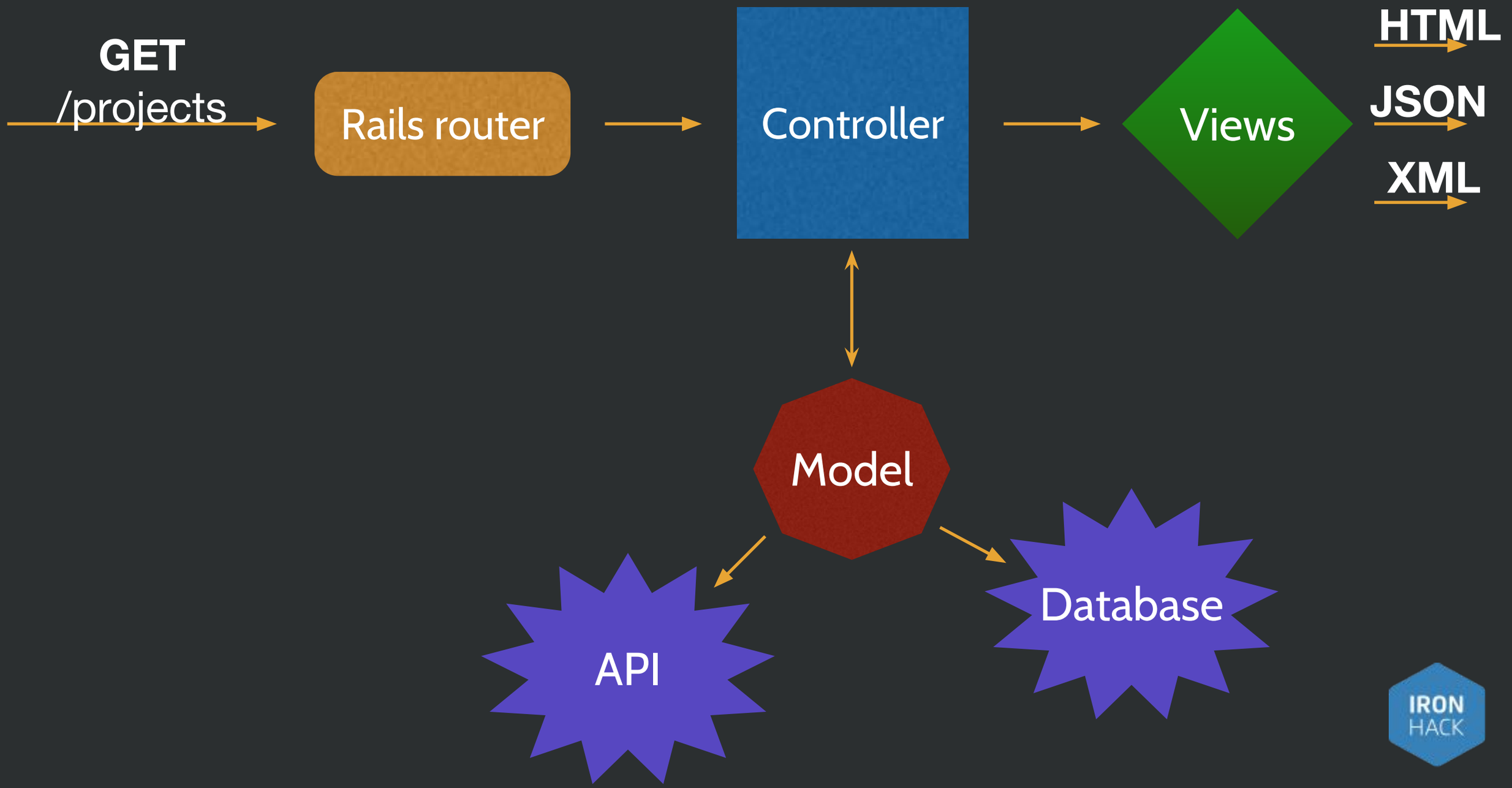
HTTP Verb:	URI:	Parameters:	Response:
POST	/newsletter	email=rafa@ironhack.com	201 Created

Model View Controller (MVC)

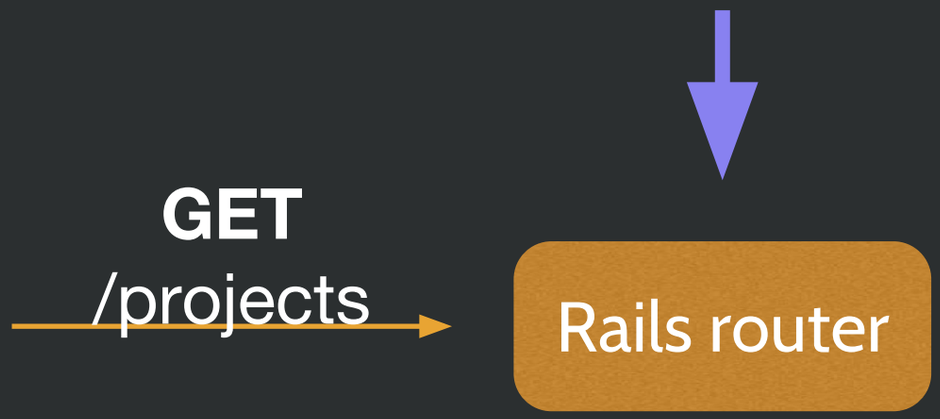
MVC

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

MVC


GET
/projects
Rails router
Controller
Views
HTML
JSON
XML
Model
API
Database

MVC



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

GET /projects

Time tracking tool

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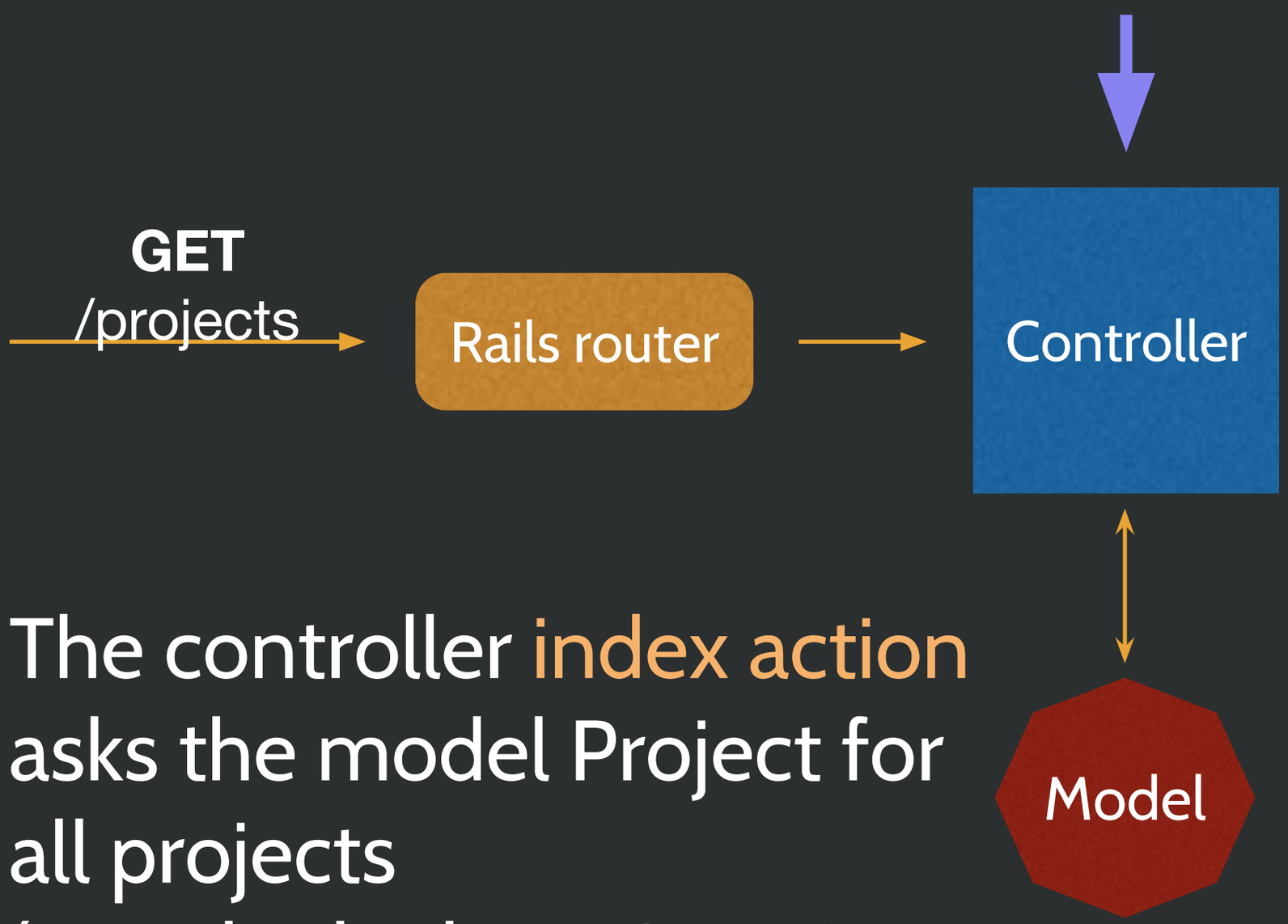
Projects

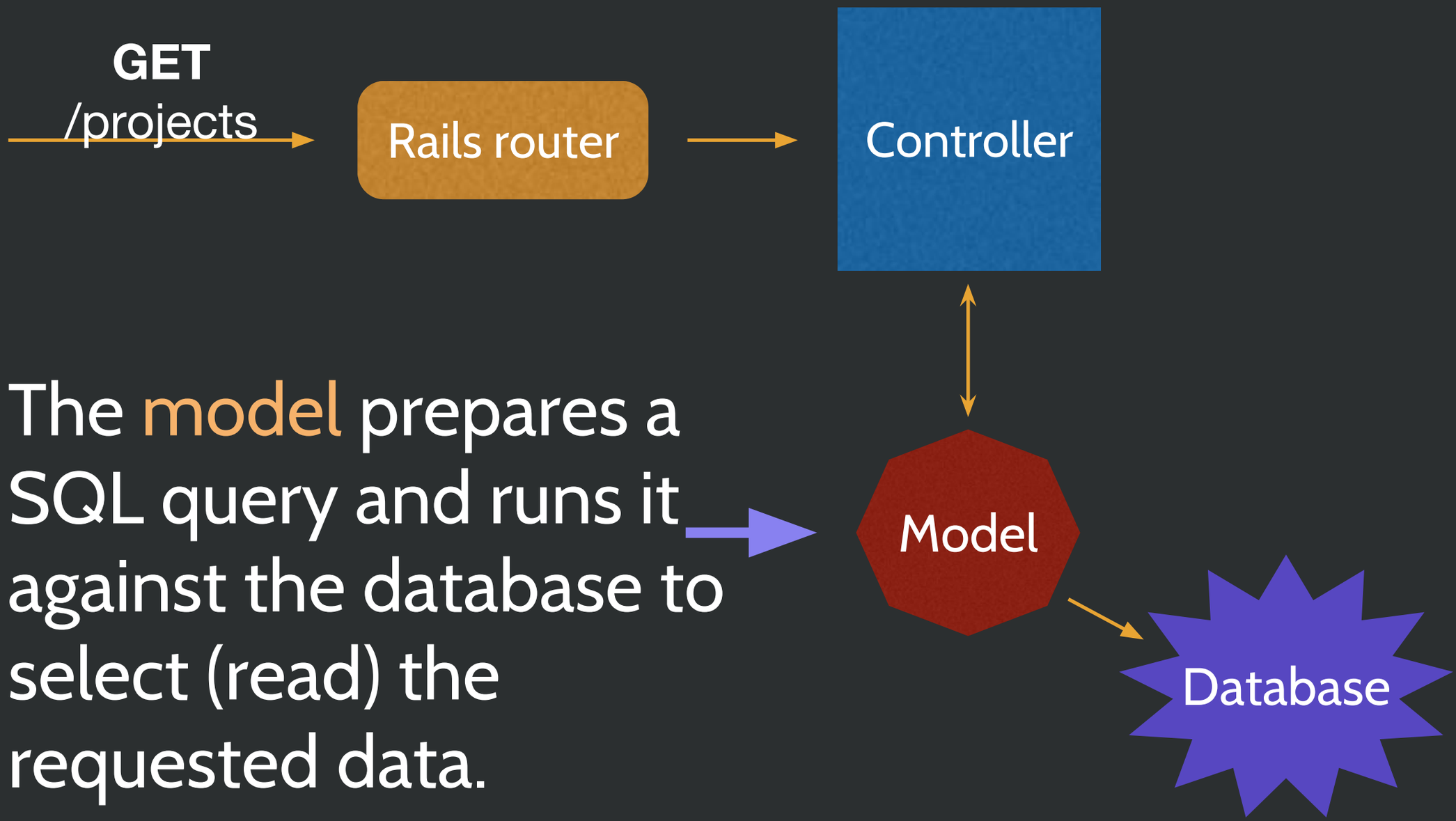
- Toldo - Integrate payments with Recurly
- Ironhack - Rails introduction week #4

MVC



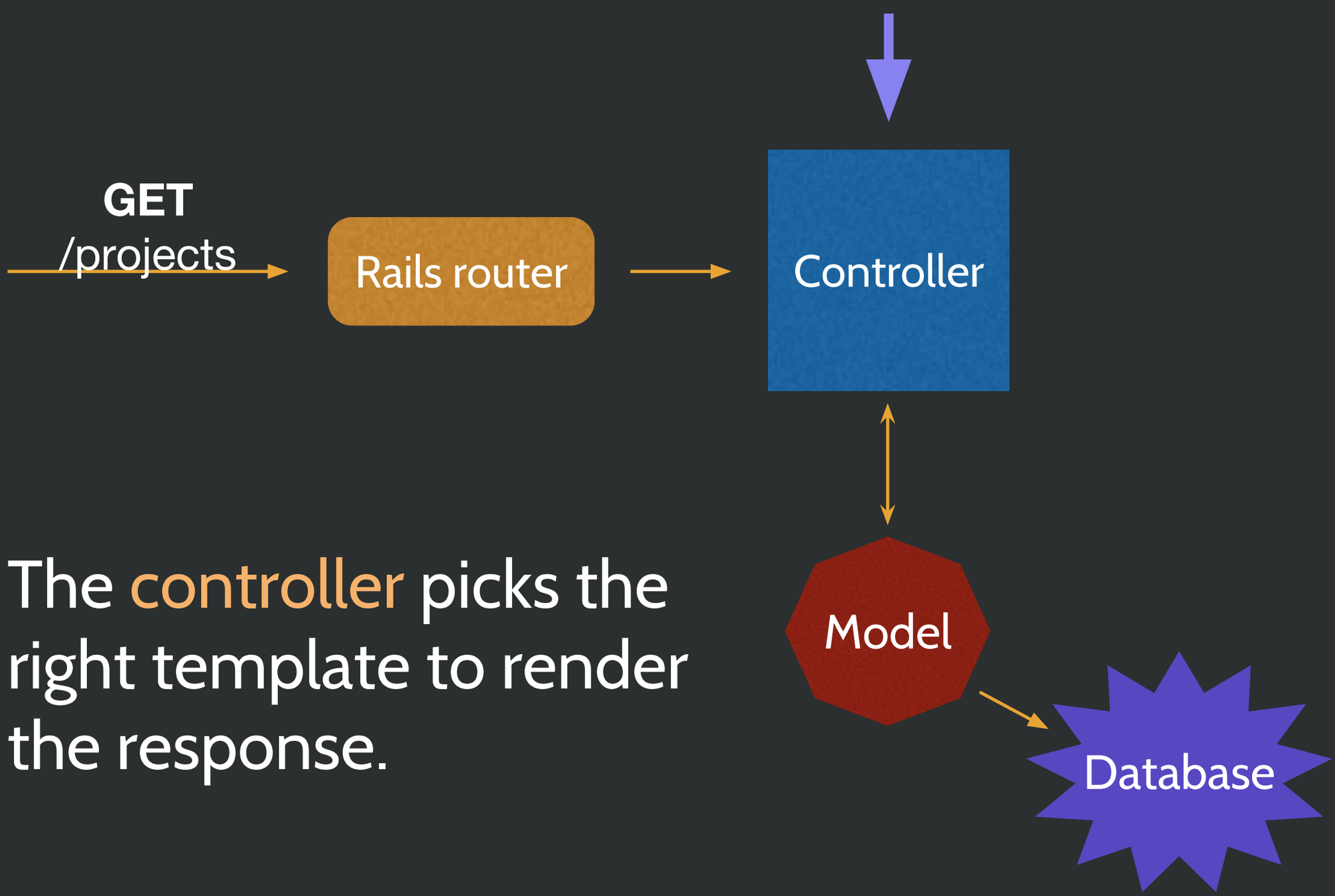
The controller index action asks the model Project for all projects
(or only the last 10 projects created).

MVC



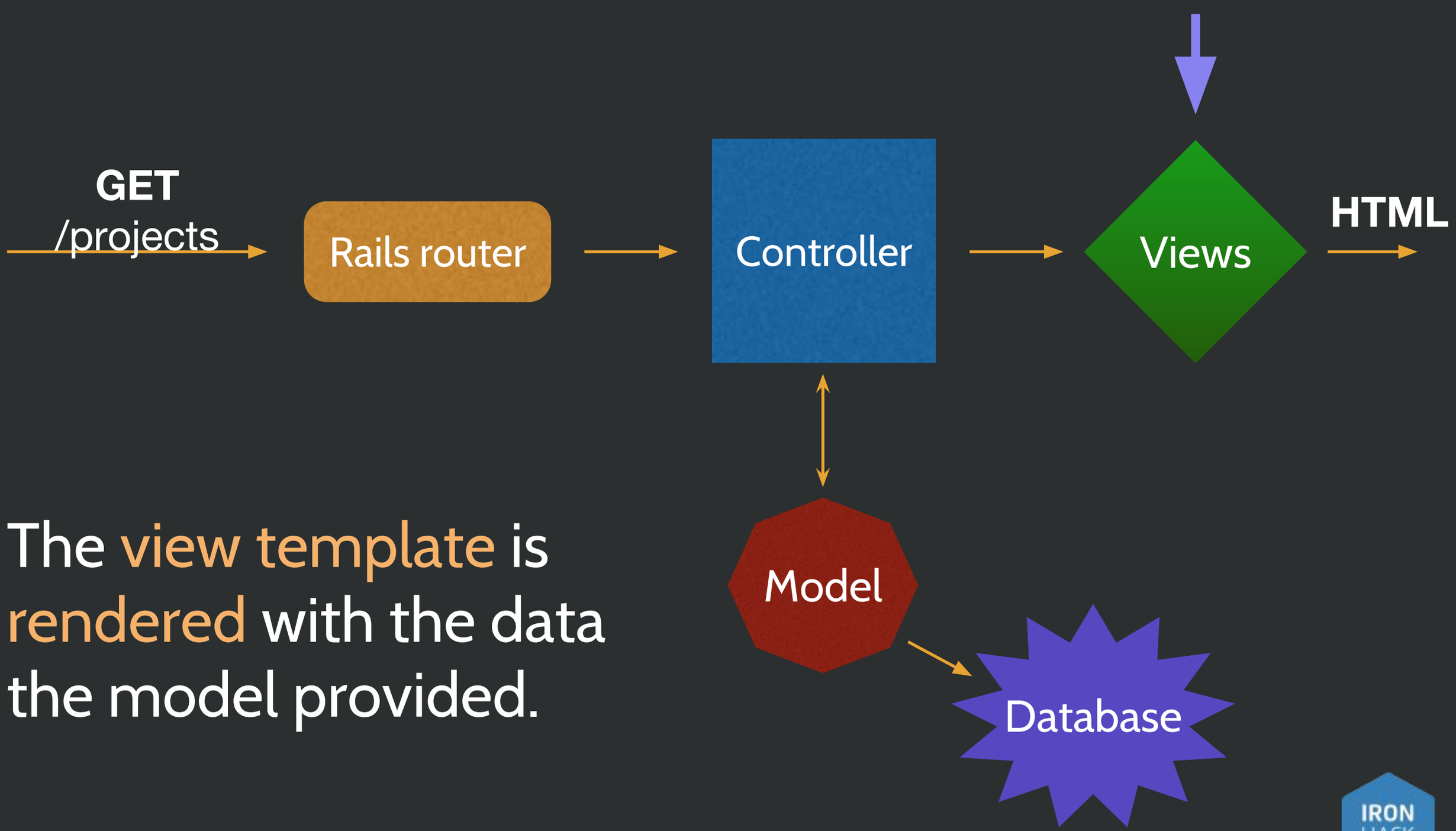
The model prepares a SQL query and runs it against the database to select (read) the requested data.

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

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Projects

- Toldo - Integrate payments with Recurly
- Ironhack - Rails introduction week #4

GET /

Time tracking tool

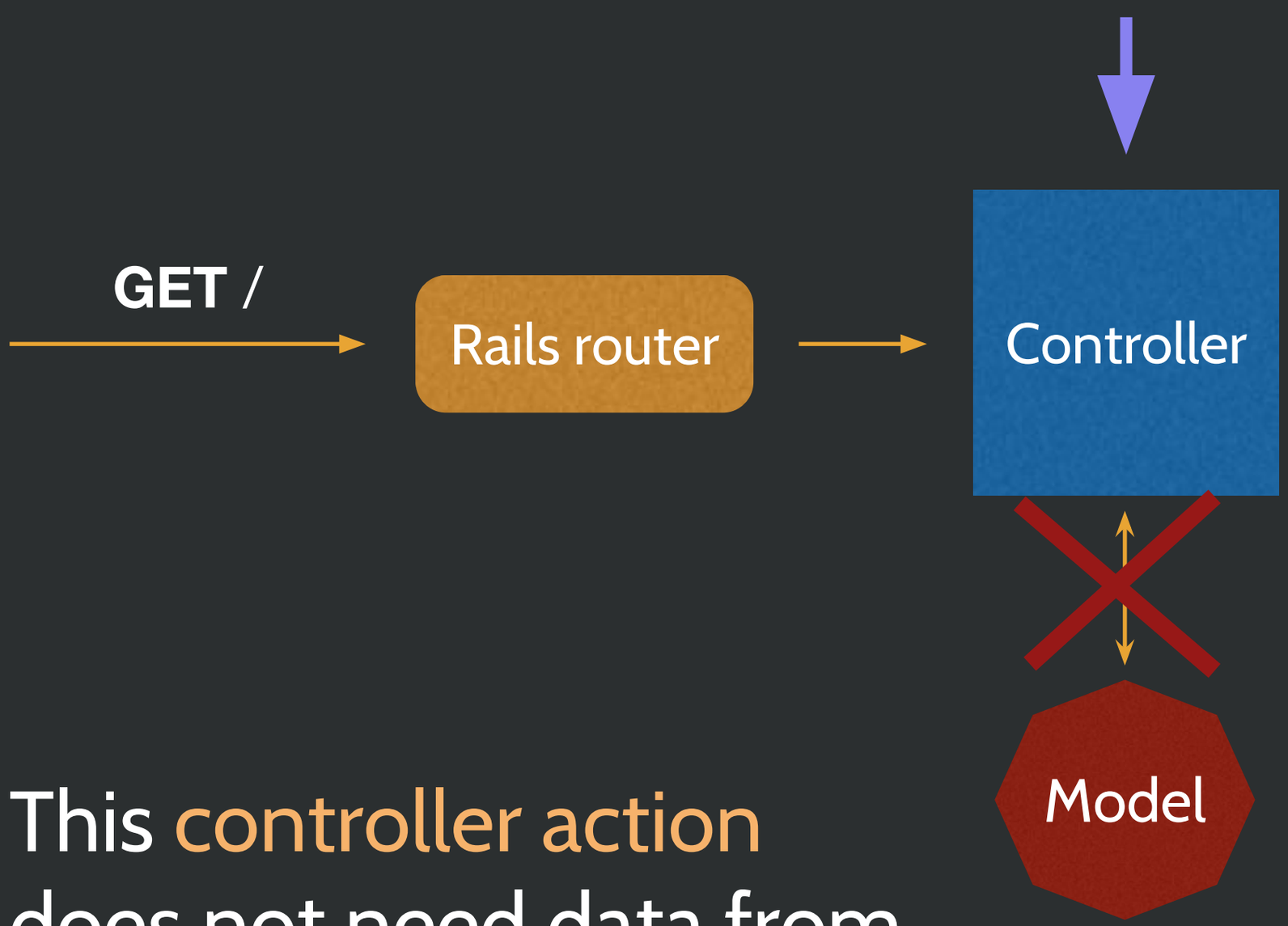
Welcome to this timetracking tool

Visit your projects

MVC

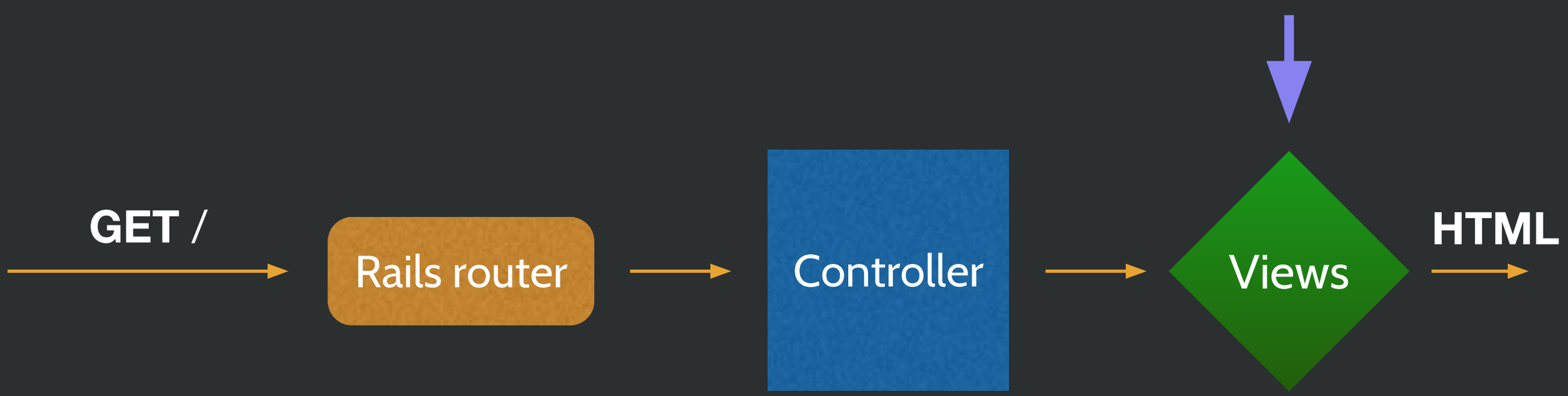
The router picks the controller and action that should respond to the request GET /

MVC



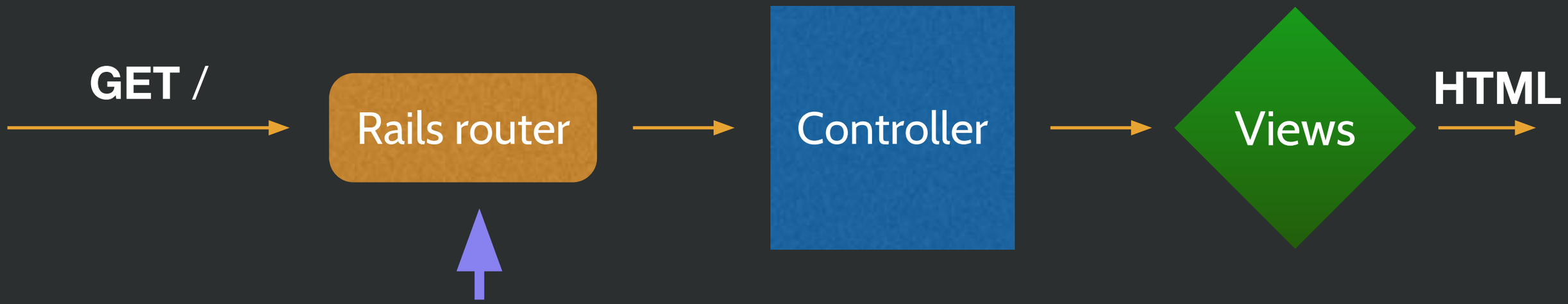
This controller action does not need data from the model.

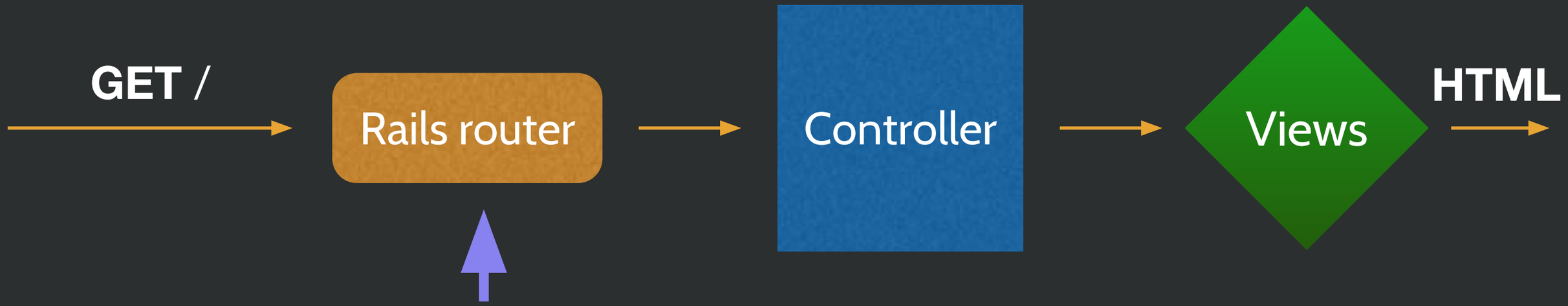
MVC

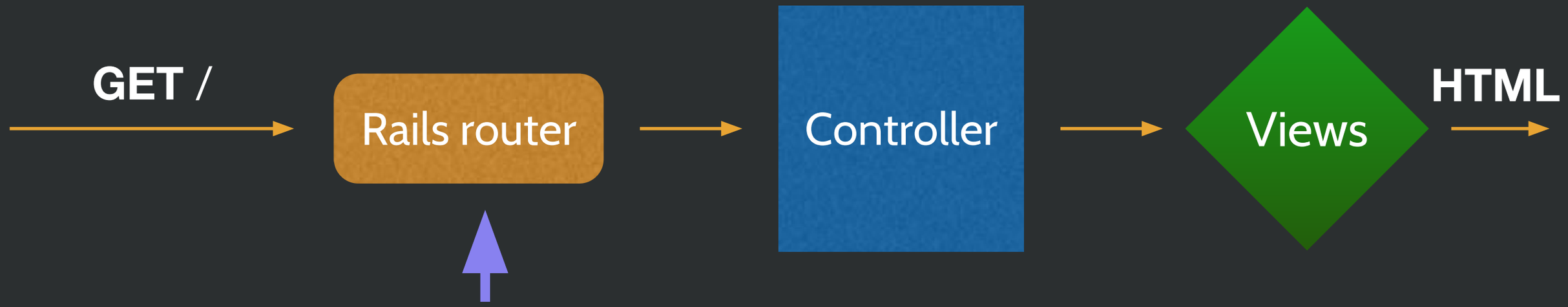


The controller picks the correct template and renders the view (in the correct format).

Our first request: a homepage


GET /
Rails router
Controller
Views
HTML


GET /
Rails router
Controller
Views
HTML
config/routes.rb

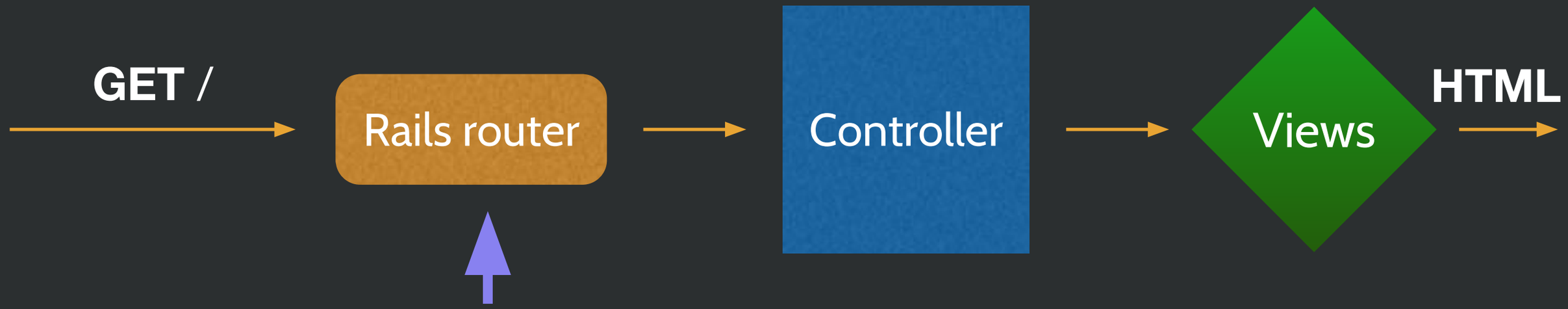


config/routes.rb

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

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

end
```



config/routes.rb

```
get '/', to: 'site#home'
```

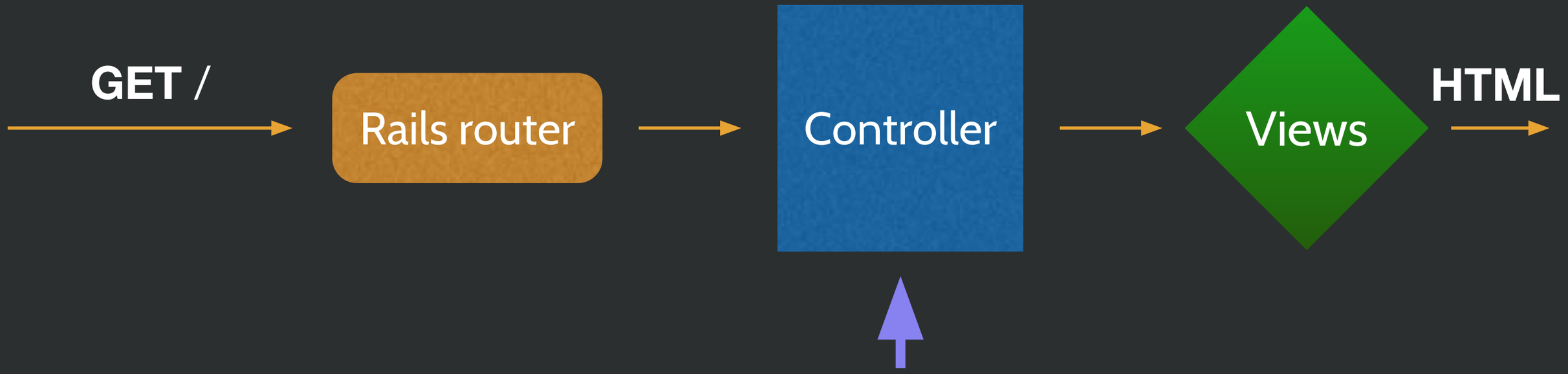
HTTP verb

URI

Controller

Action

IRON HACK




```
$ rails generate controller site
```

app/controllers/site_controller.rb

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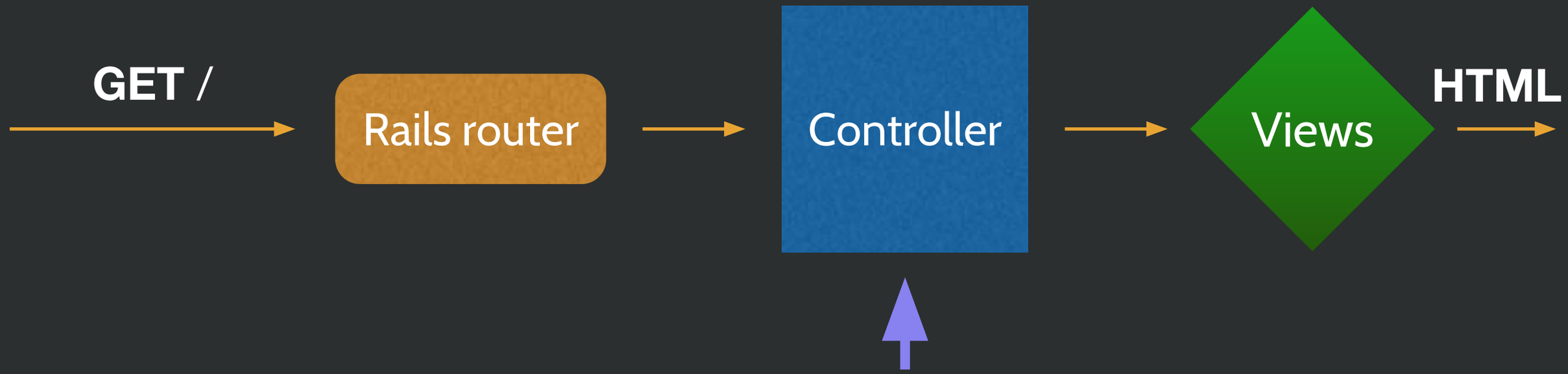
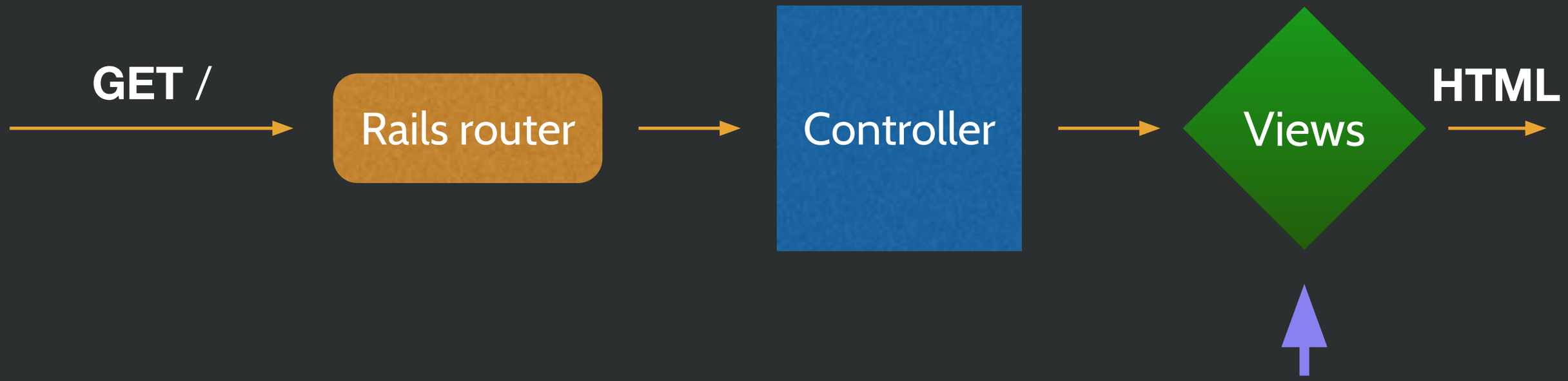


app/controllers/site_controller.rb

```ruby
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>
```

Opinionated!

IRON HACK

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