

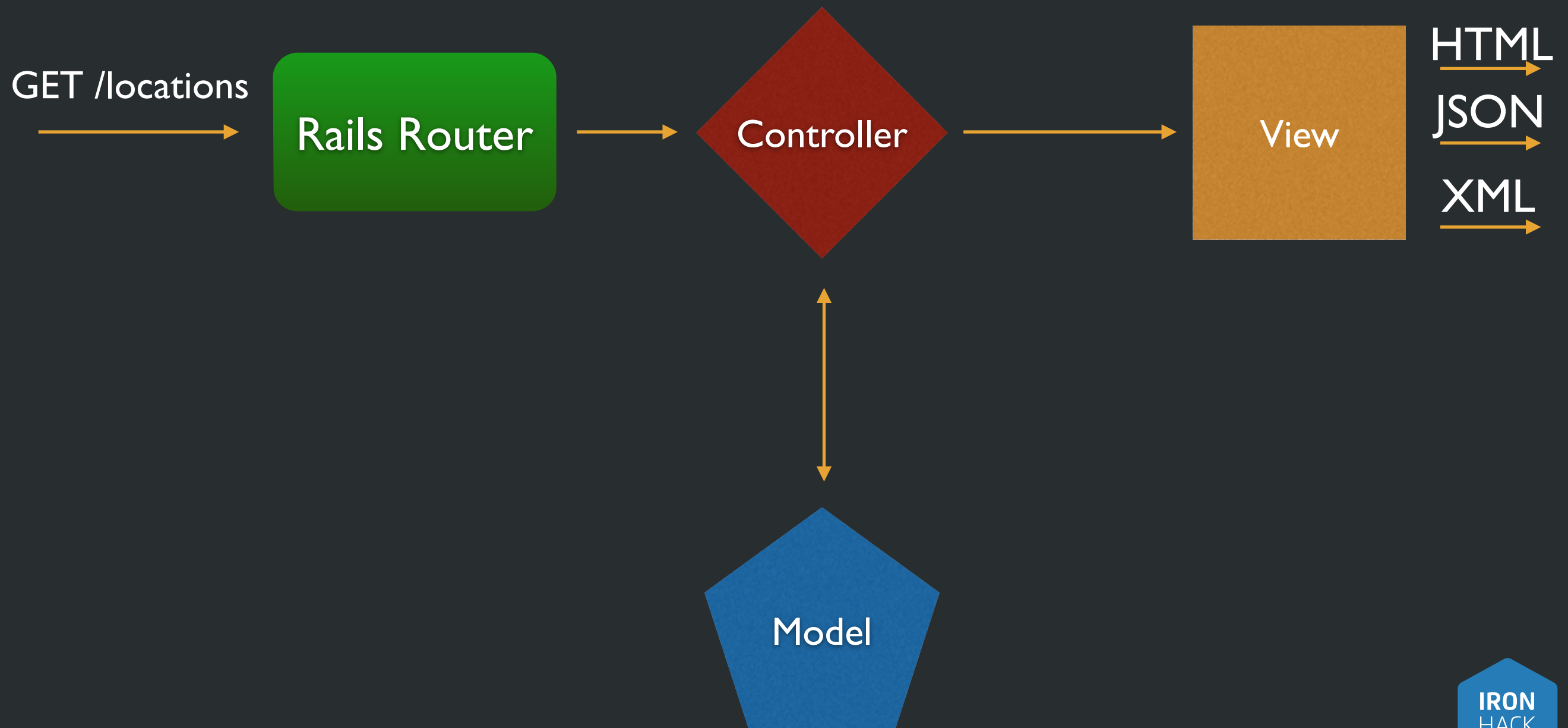


Requesting Data through Rails

Sergio Revilla
@elreplicante

based on Martin Tschischauskas (@martynasc) slides

Remember MVC



MVC



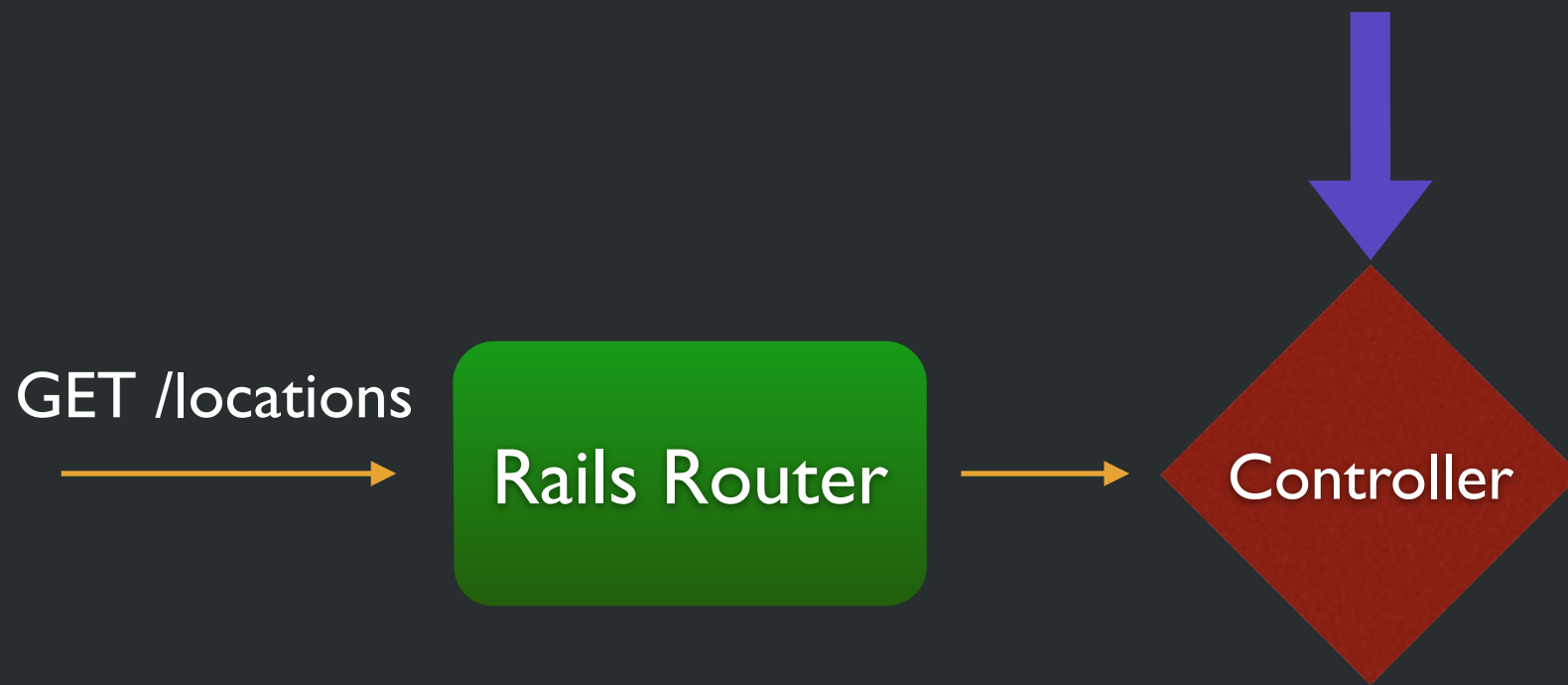
GET /locations



Rails Router

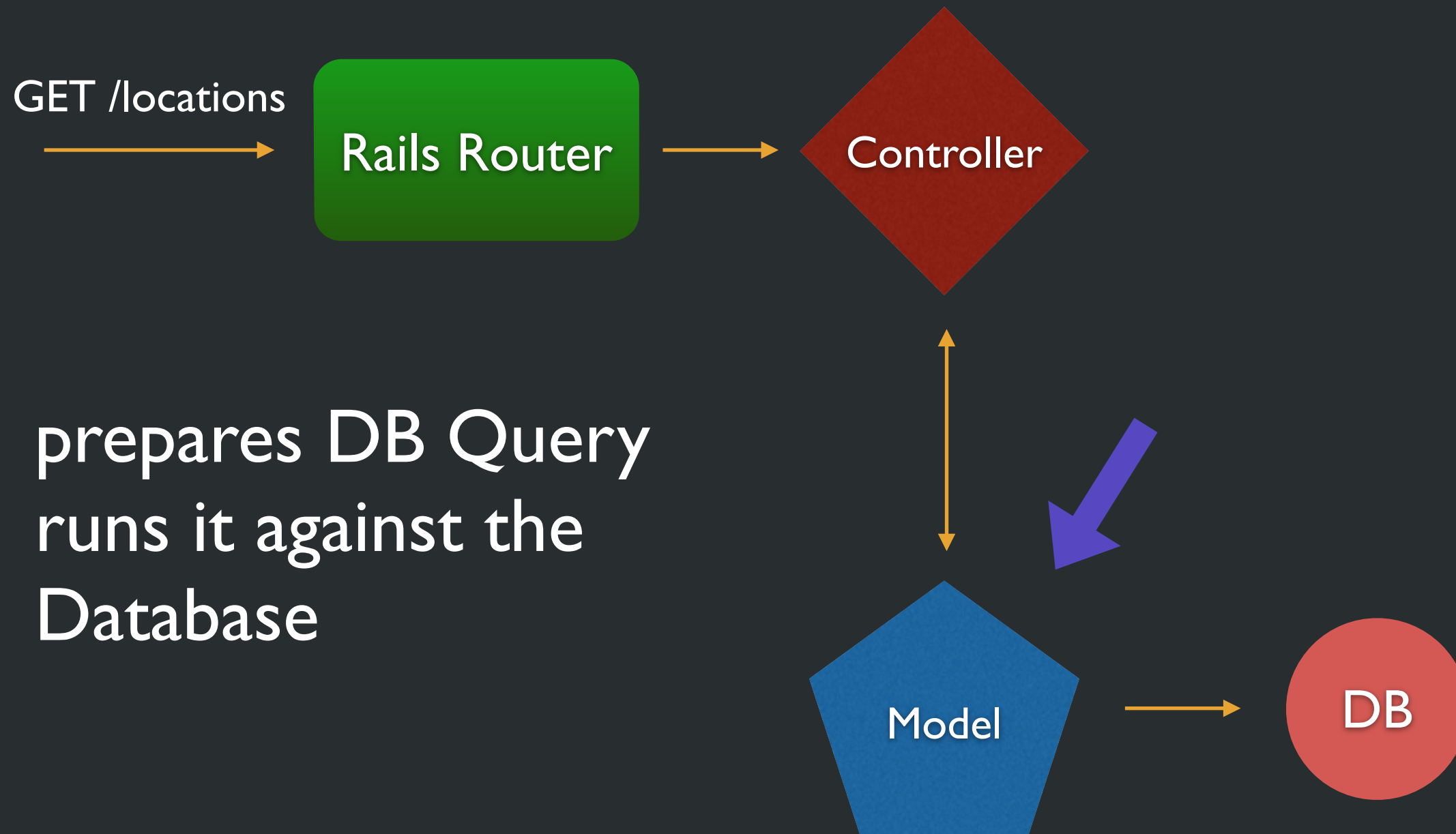
Determines which
controller should
respond to a
GET request
for /locations

MVC

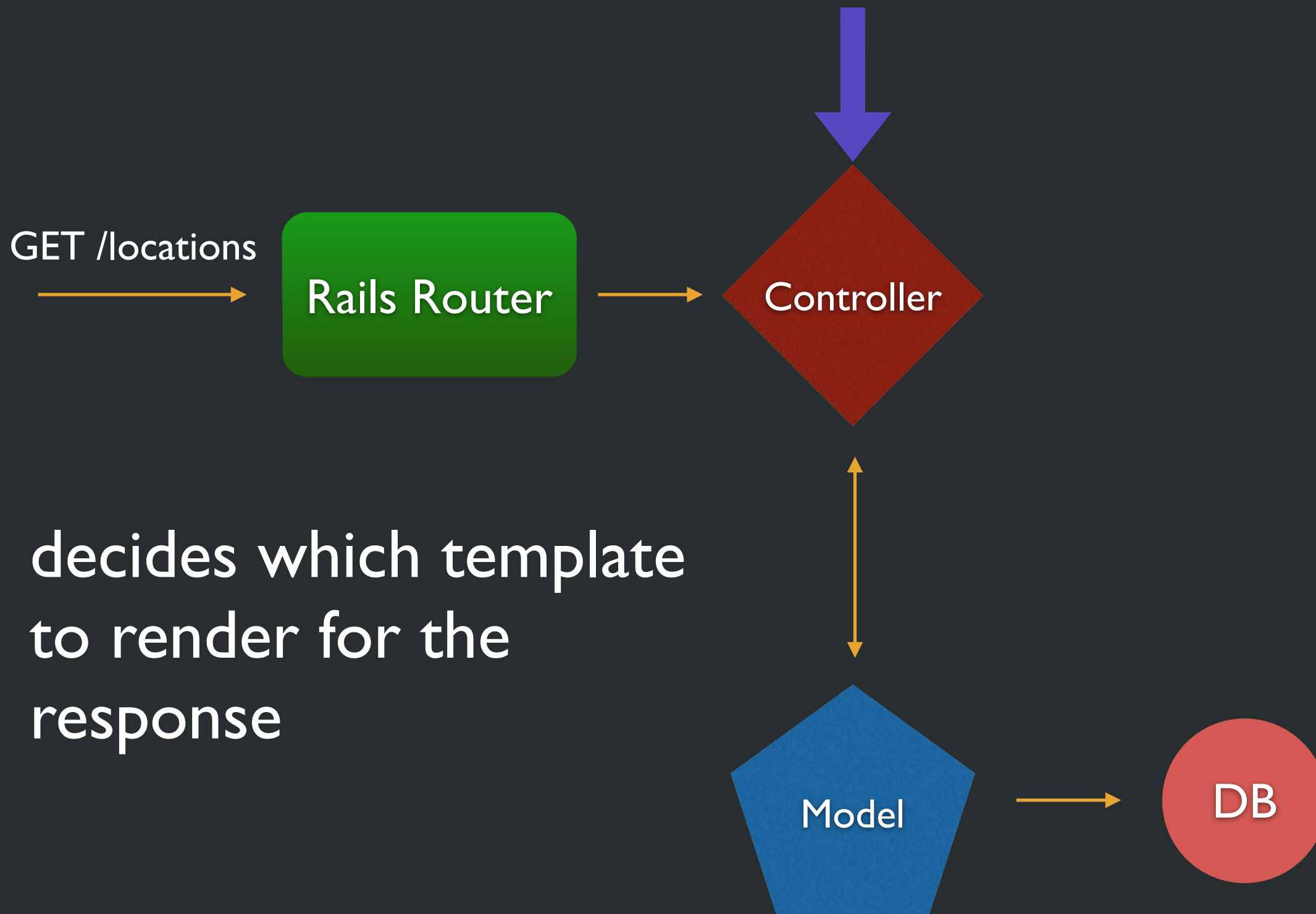


Gets the request from Router, asks the Model which are the last 10 Locations

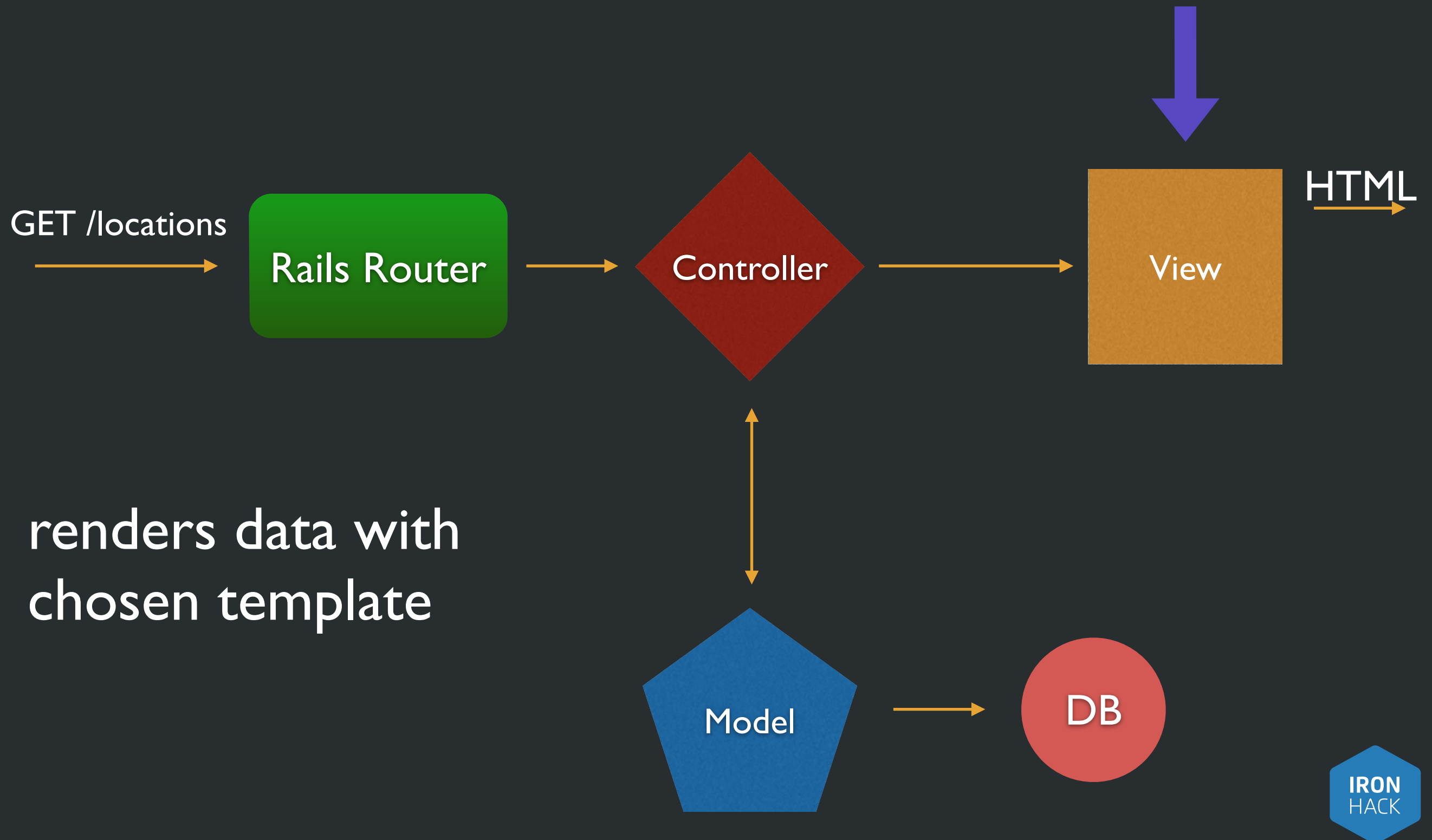
MVC



MVC



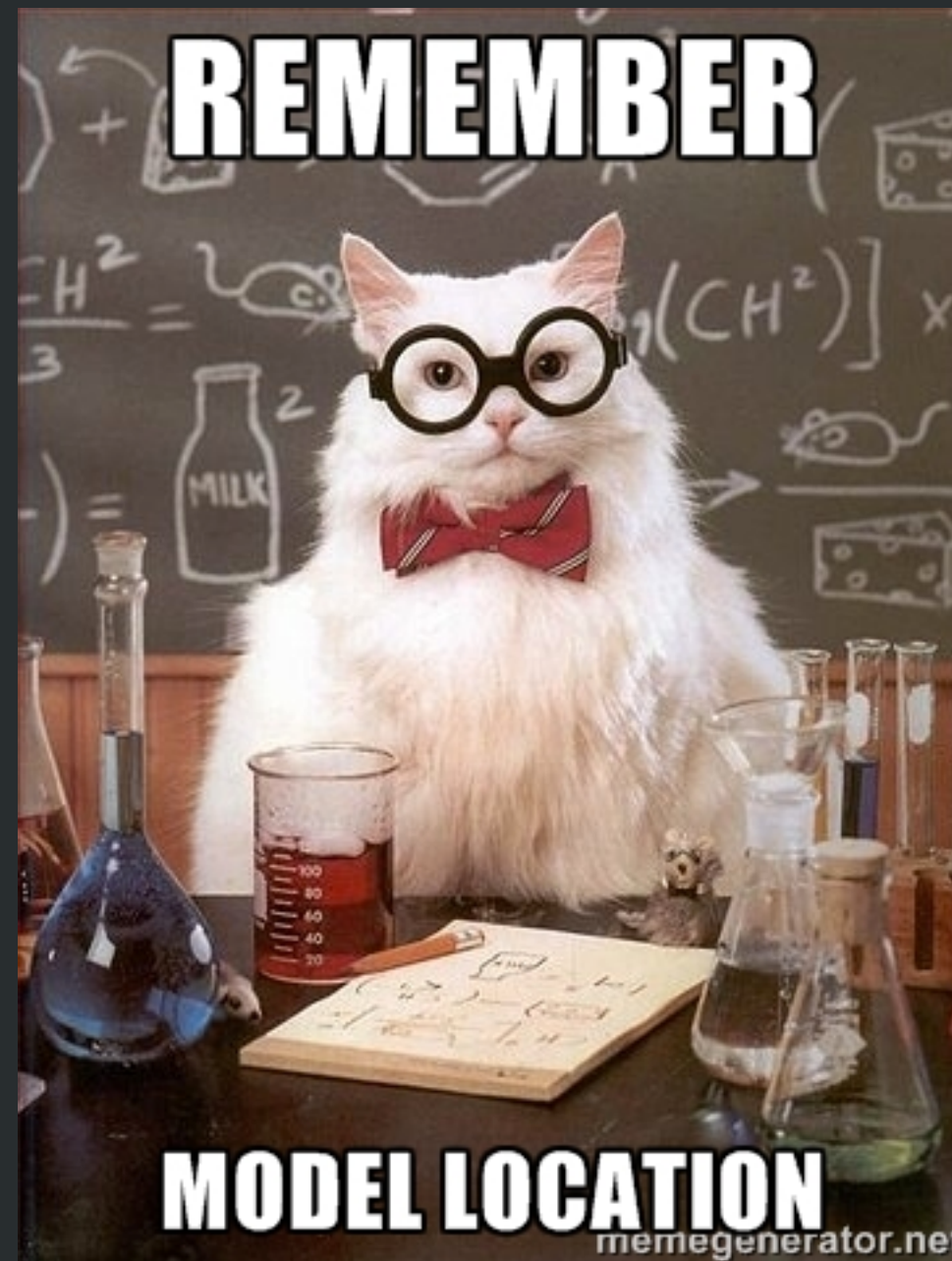
MVC



The response is a list with the last 10 locations created

Locations

- Home
- Party
- Beach



Model: Location

Location
<ul style="list-style-type: none">- name- city- ...

Model: Location

```
$ rails generate model location
```

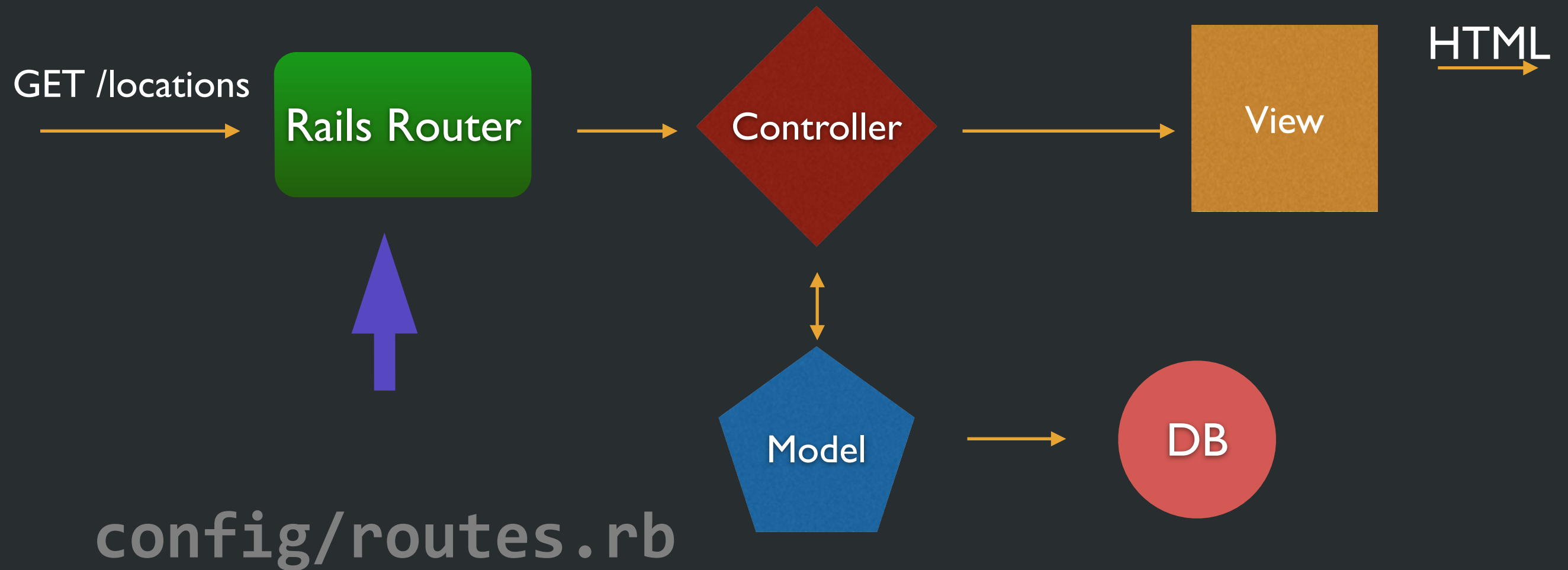
```
invoke active_record
create db/migrate/20140616160552_create_locations.rb
create app/models/location.rb
invoke rspec
create spec/models/location_spec.rb
```

Model: Location

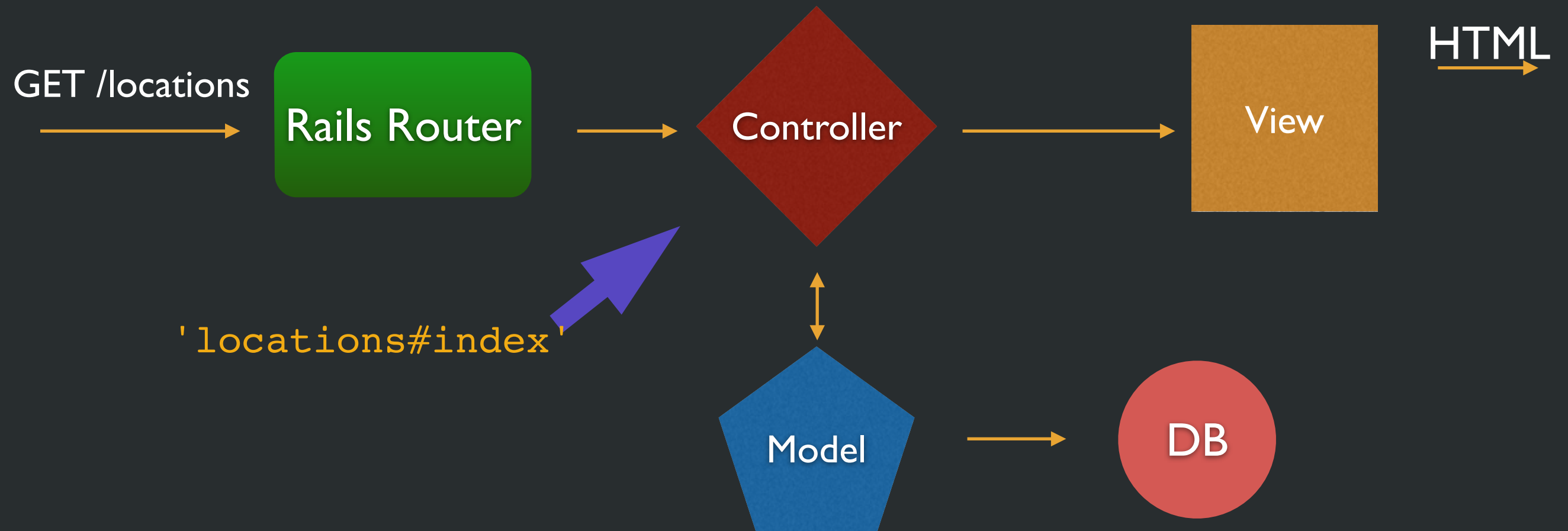
/app/models/location.rb

```
class Location < ActiveRecord::Base  
end
```

Let's implement that
request

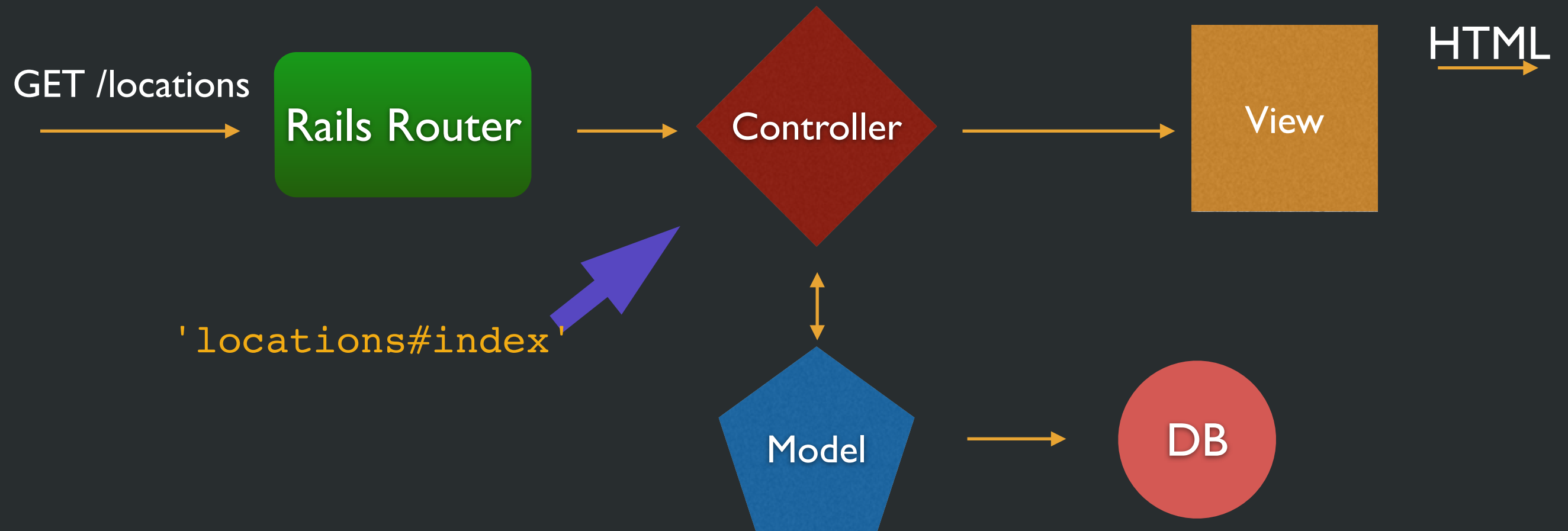


```
Rails.application.routes.draw do
  get 'locations' => 'locations#index'
end
```



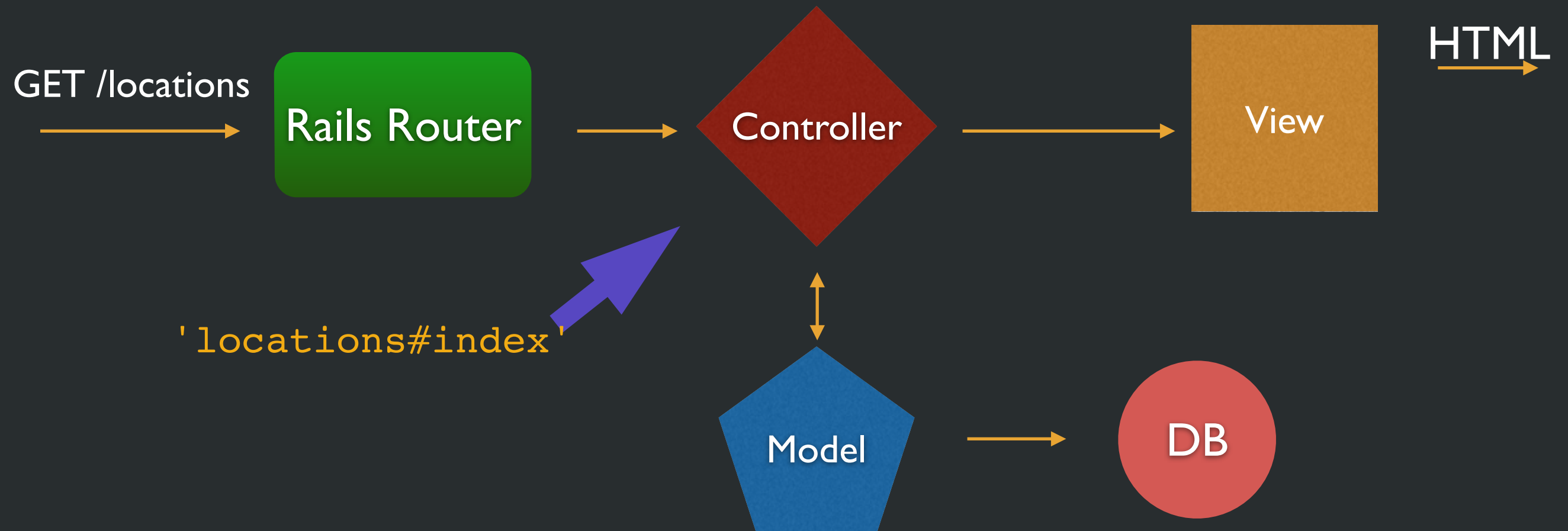
```
$ rails g controller locations
```

```
create app/controllers/locations_controller.rb
invoke erb
create app/views/locations
invoke rspec
create spec/controllers/locations_controller_spec.rb
invoke helper
create app/helpers/locations_helper.rb
invoke rspec
create spec/helpers/locations_helper_spec.rb
```

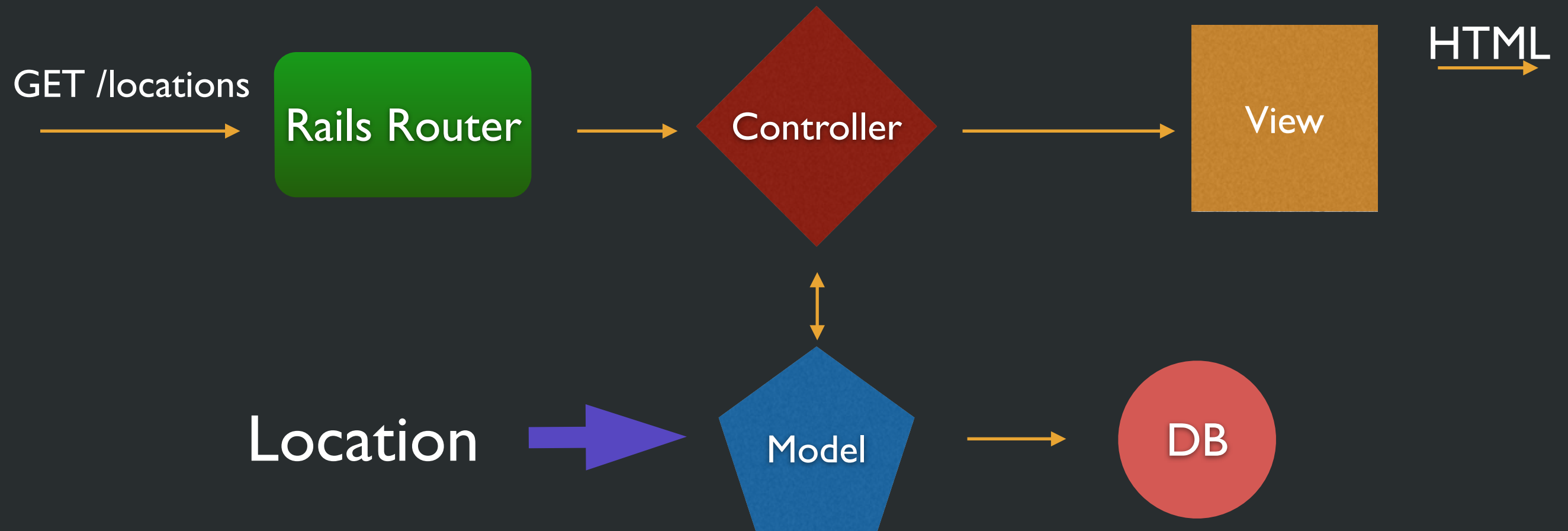
/controllers/locations_controller.rb

```
class LocationsController < ApplicationController  
end
```



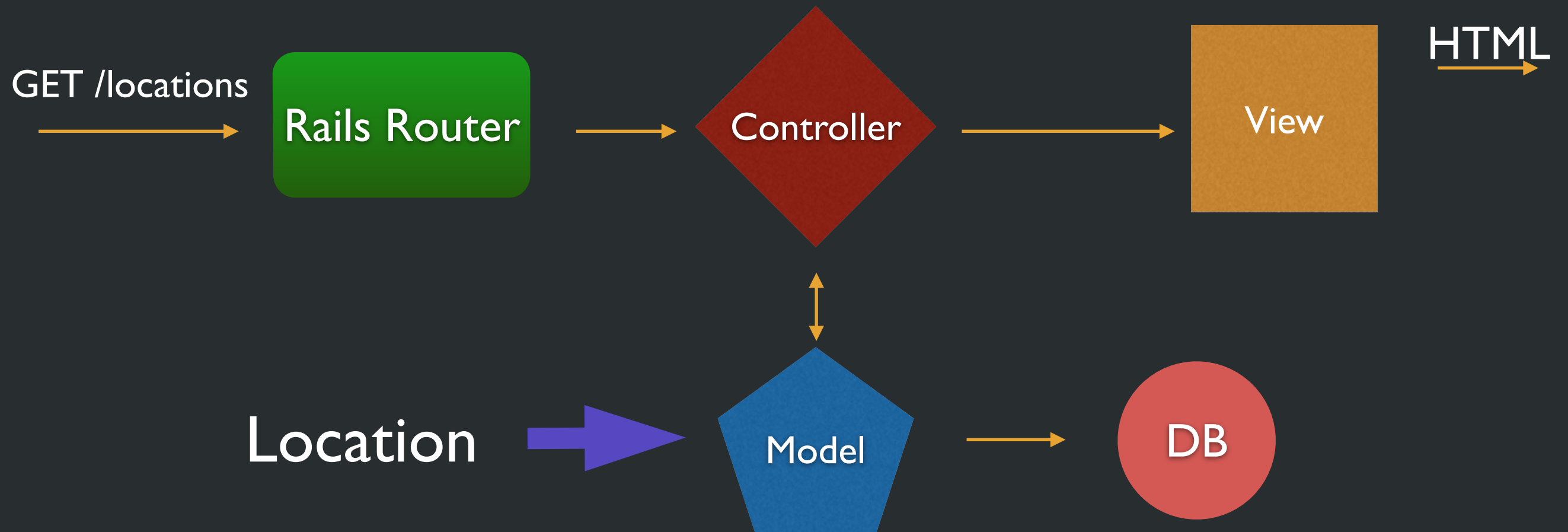
`/controllers/locations_controller.rb`

```
class LocationsController < ApplicationController
  def index
  end
end
```



/controllers/locations_controller.rb

```
class LocationsController < ApplicationController
  def index
    @locations = Location.order(created_at: :desc)
                        .limit(10)
  end
end
```



/controllers/locations_controller.rb

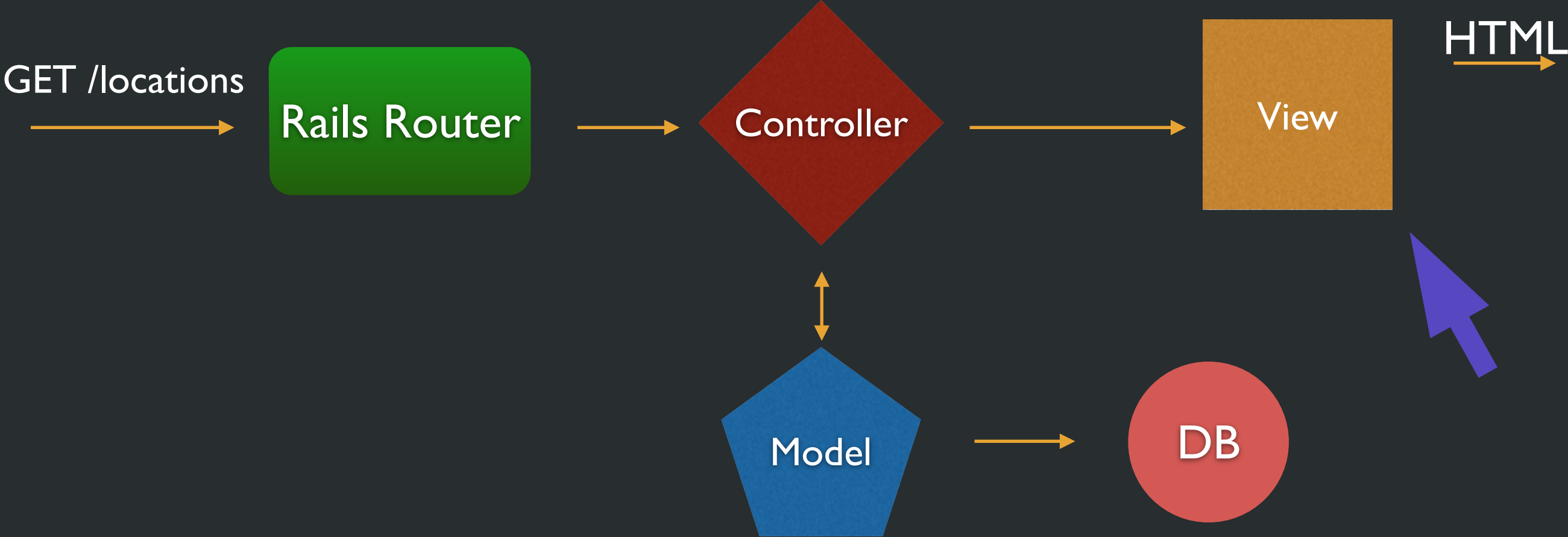
```
$ rails c
```

```
> Location.order(created_at: :desc).limit(10)
```

```
SELECT "locations".* FROM "locations" ORDER BY "locations"."created_at" DESC LIMIT 10
```

```
> Location.last(10)
```

```
SELECT "locations".* FROM "locations" ORDER BY "locations"."id" DESC LIMIT 10
```



Naming Conventions

Controllers:

/controllers/locations_controller.rb

plural

```
class LocationsController < ApplicationController
  def index
    @locations = Location.last(10)
  end
end
```

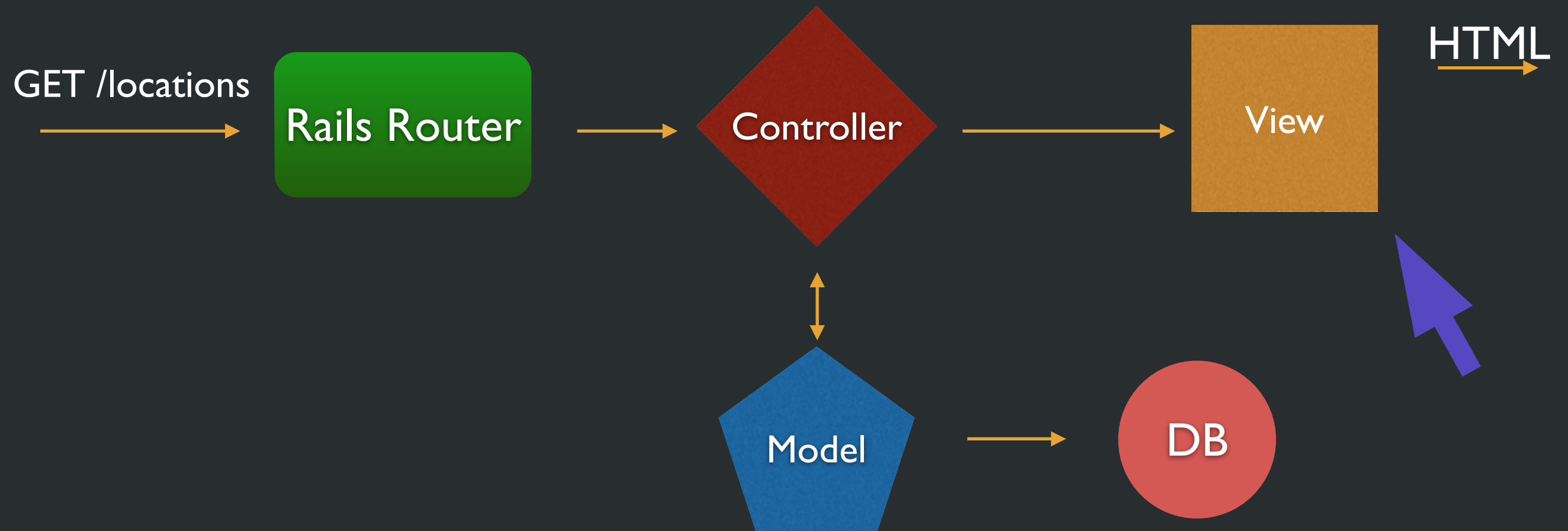
Views:

/views/locations/index.html.erb

Models:

/models/location.rb

singular



/views/locations/index.html.erb

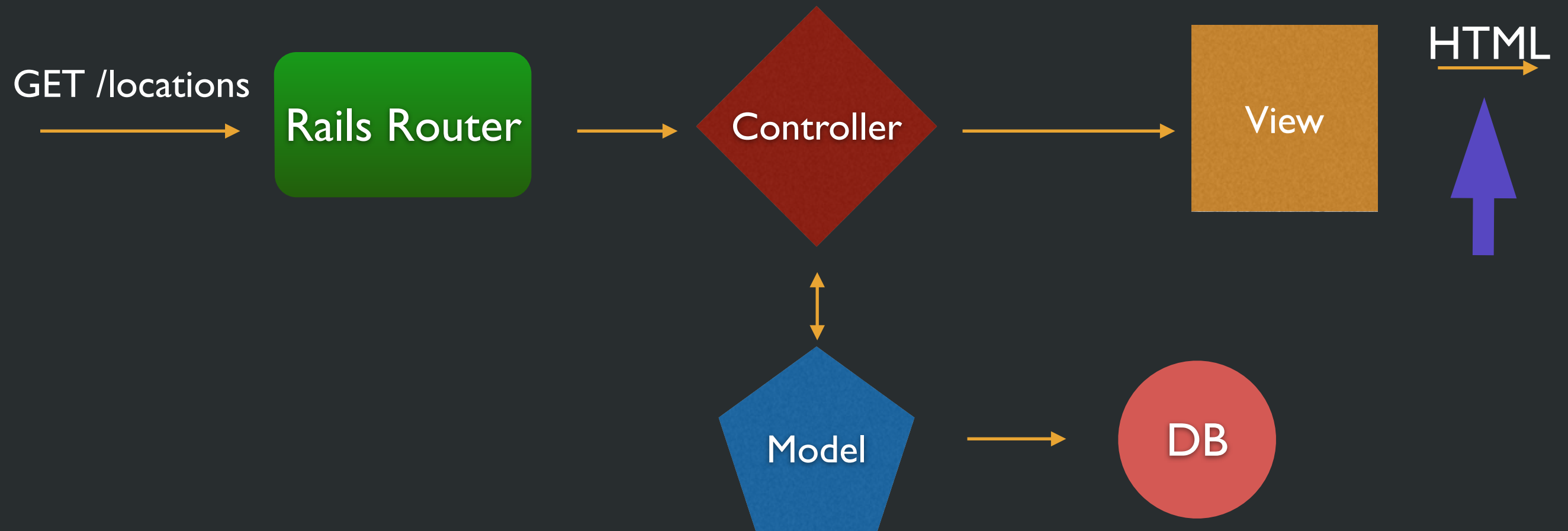
```
<h1>Locations</h1>
<ul>
  <% @locations.each do |location| %>
    <li><%= location.name %></li>
  <% end %>
</ul>
```

Run the server

```
$ rails s
```

And visit

<http://localhost:3000/locations>



inspect in the browser

```
<h1>Locations</h1>
<ul>
  <li>Home</li>
  <li>Party</li>
  <li>Beach</li>
</ul>
```

A (very) brief introduction to ERB

ERB basics

Stands for Embedded Ruby

Template language included in Ruby Standard Library

`<% # executed but not displayed %>`

`<%= # executed and displayed %>`

ERB basics

```
<h1>Locations</h1>
<ul>
  <% @locations.each do |location| %>
    <li><%= location.name %></li>
  <% end %>
</ul>
```

ERB basics

```
<% unless location.in_spain? %>  
  <li><%= location.name %> too far away</li>  
<% end %>
```

Variables in the controllers and the views

```
class LocationsController < ApplicationController
  def index
    @locations = Location.order(created_at: :desc)
                        .limit(10)
  end
end
```

```
<h1>Locations</h1>
<ul>
  <% @locations.each do |location| %>
    <li><%= location.name %></li>
  <% end %>
</ul>
```

Rule of thumb

Use instance variables in your controller for those variables you want to use in the view

Exercise #14

Update `index.html.erb` template to display locations city after the location name. Something like:

```
<ul>
  <li>Home - Barcelona</li>
  <li>Party - Lloret de Mar</li>
</ul>
```

Solution #14

```
<ul>  
  <% @locations.each do |location| %>  
    <li><%= location.name %> - <%= location.city %></li>  
  <% end %>  
</ul>
```

Exercise #15

Improve previous exercise so that, if the location has no name, only the city is displayed (i.e: no '-' character should be displayed)

```
<ul>
  <li>Home - Barcelona</li>
  <li>Lloret de Mar</li>
</ul>
```

Solution #15

```
<ul>
  <% @locations.each do |location| %>
    <li>
      <% if location.name.present? %>
        <%= location.name %> -
      <% end %>
      <%= location.city %>
    </li>
  <% end %>
</ul>
```

Exercise #16

Move the code to obtain the last 10 created location to a method in the class Location named last_created(n)

```
class LocationsController < ApplicationController
  def index
    @locations = Location.last_created(10)
  end
end
```

Solution #16

```
class Location < ActiveRecord::Base
  def self.last_created(limit)
    order(created_at: :desc).limit(limit)
  end
end
```

Bonus Solution #16

```
class Location < ActiveRecord::Base
  scope :last_created, ->(limit) { order(created_at: :desc).limit(limit) }
end
```

COMMIT



ALL THE THINGS

memegenerator.net