Creating Visit Part 1

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The common way to implement the Create using a form

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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 a process 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

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1. A user visits a page that contains a form

```
Http Method:    GET
URL path:       /<resource>/new
HTML template: <form …>
```

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2. The user fills the form and submits it

- Nothing we can do in the backend -

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3. An action receives that information a process it

Http Method: **POST**

URL path: **/<resource>**

HTML template: **(no template)**

1.   if it's valid, then the entity is created

2.   if it's invalid, then renders the template with the
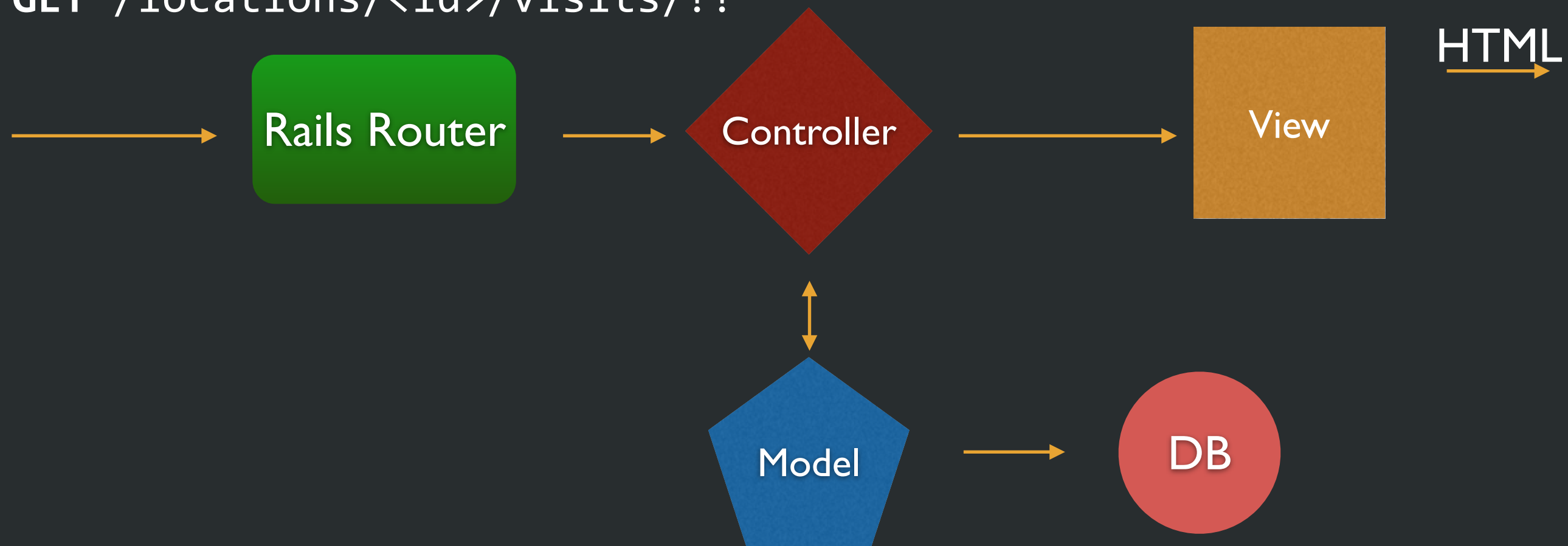   form and some validation errors

```
def create
  obj = Obj.new(params[:obj])
  if obj.save
    redirect_to "/objs/<obj.id>"
  else
    @errors = obj.errors.full_messages
    render 'new'
  end
end
```

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Implementing the "form" action

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GET /locations/<id>/visits/??

Rails Router → Controller → View → HTML

Controller ↕ Model → DB

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Implementing the "form" action

GET

/locations/:location_id/visits/new

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Implementing the new action

app/controllers/visits_controller.rb

```ruby
class VisitsController < ApplicationController

  def new
    @location = Location.find(params[:location_id])
    @visit = @location.visits.new
  end
end
```

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Implementing the new action

app/views/visits/new.html.erb

```erb
<%= form_for [@location, @visit] do |f| %>
…
<% end %>
```

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Implementing the new action

app/views/visits/new.html.erb

```erb
<%= form_for [@location, @visit] do |f| %>
  <%= f.label :user_name %>
  <%= f.text_field :user_name %>
<% end %>
```

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Implementing the new action

app/views/visits/new.html.erb

```erb
<%= form_for [@location, @visit] do |f| %>
  <%= f.label :user_name %>
  <%= f.text_field :user_name %>
  <br/>
  <%= f.datetime_select(:from_date, default: Time.now + 1.days ) %>
  <br/>
  <%= f.datetime_select(:to_date, default: Time.now + 1.days ) %>
  <br/>
  <%= f.submit "Save" %>
<% end %>
```

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$ rails s

http://localhost:3000/locations/1/visits/new

Routing Error

No route matches [GET] "/locations/6/visits/new"

`Rails.root: /vagrant/meet_me`

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

Routes

Routes match in priority from top to bottom

Rails route helpers

$ rake routes

```
   Prefix Verb URI Pattern                                    Controller#Action
     root GET  /                                              home#welcome
locations GET  /locations(.:format)                           locations#index
          GET  /locations/:id(.:format)                       locations#show
          GET  /locations/:location_id/visits(.:format) visits#index
```

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```ruby
Rails.application.routes.draw do
  root 'home#welcome'
  get 'locations' => 'locations#index'
  get 'locations/:id' => 'locations#show'
  get 'locations/:location_id/visits' => 'visits#index'
  get 'locations/:location_id/visits/new' => 'visits#new'
end
```

```ruby
Rails.application.routes.draw do
  root 'home#welcome'

  resources :locations do
    resources :visits
  end

end
```

Rails resources

Rails resources

- Create 7 different routes in your application for a given controller

```
resources :locations
```

```ruby
Rails.application.routes.draw do
  root 'home#welcome'

  resources :locations do
    resources :visits
  end

end
```

```
                  Prefix Verb    URI Pattern                                    Controller#Action
                    root GET     /                                              home#welcome
         location_visits GET     /location/:location_id/visits(.:format)        visits#index
                         POST    /location/:location_id/visits(.:format)        visits#create
      new_location_visit GET     /location/:location_id/visits/new(.:format)    visits#new
     edit_location_visit GET     /location/:location_id/visits/:id/edit(.:format) visits#edit
          location_visit GET     /location/:location_id/visits/:id(.:format)    visits#show
                         PATCH   /location/:location_id/visits/:id(.:format)    visits#update
                         PUT     /location/:location_id/visits/:id(.:format)    visits#update
                         DELETE  /location/:location_id/visits/:id(.:format)    visits#destroy
          location_index GET     /location(.:format)                            location#index
                         POST    /location(.:format)                            location#create
            new_location GET     /location/new(.:format)                        location#new
           edit_location GET     /location/:id/edit(.:format)                   location#edit
                location GET     /location/:id(.:format)                        location#show
                         PATCH   /location/:id(.:format)                        location#update
                         PUT     /location/:id(.:format)                        location#update
                         DELETE  /location/:id(.:format)                        location#destroy
```

$ rails s

http://localhost:3000/locations/1/visits/new