

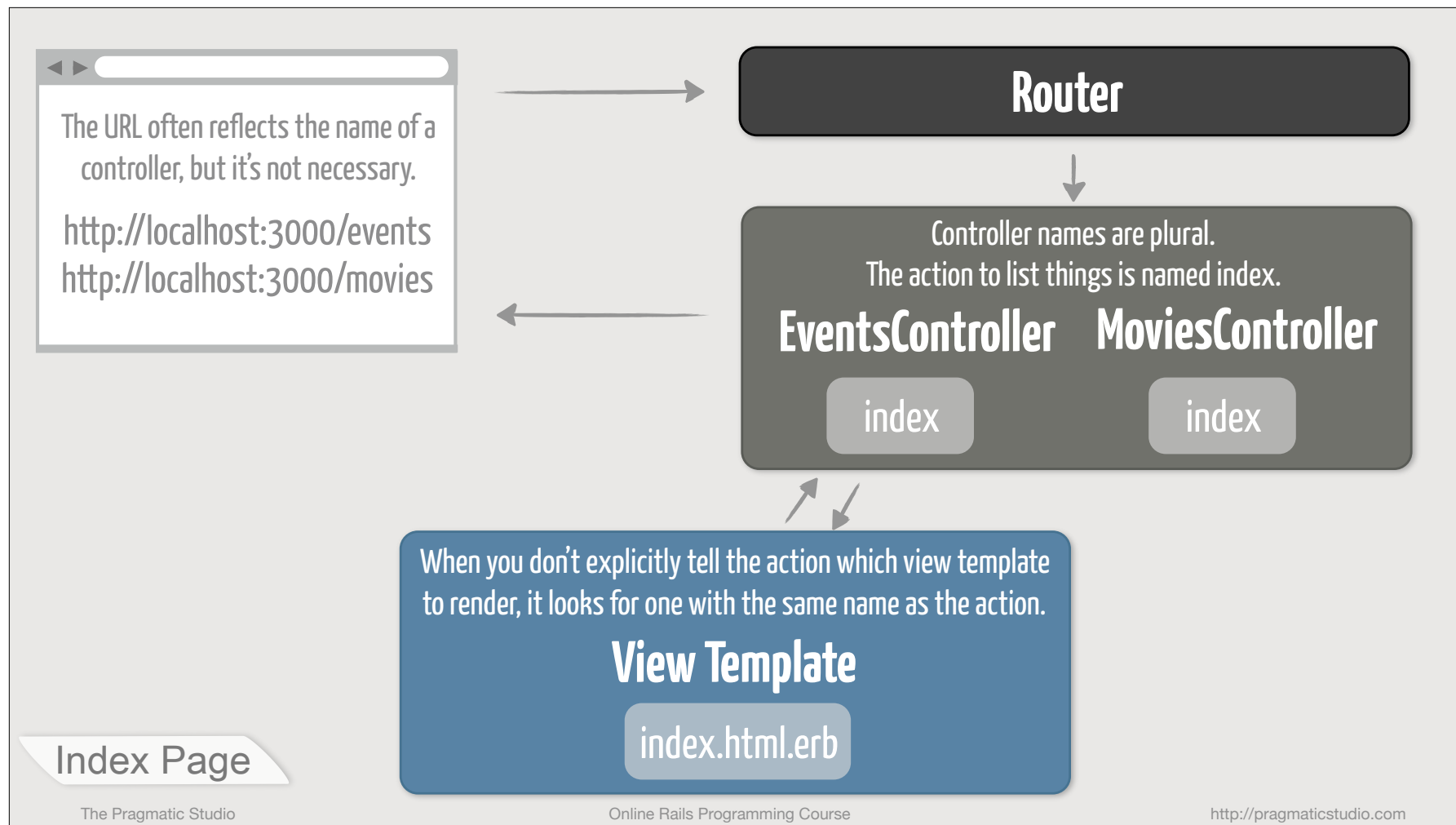


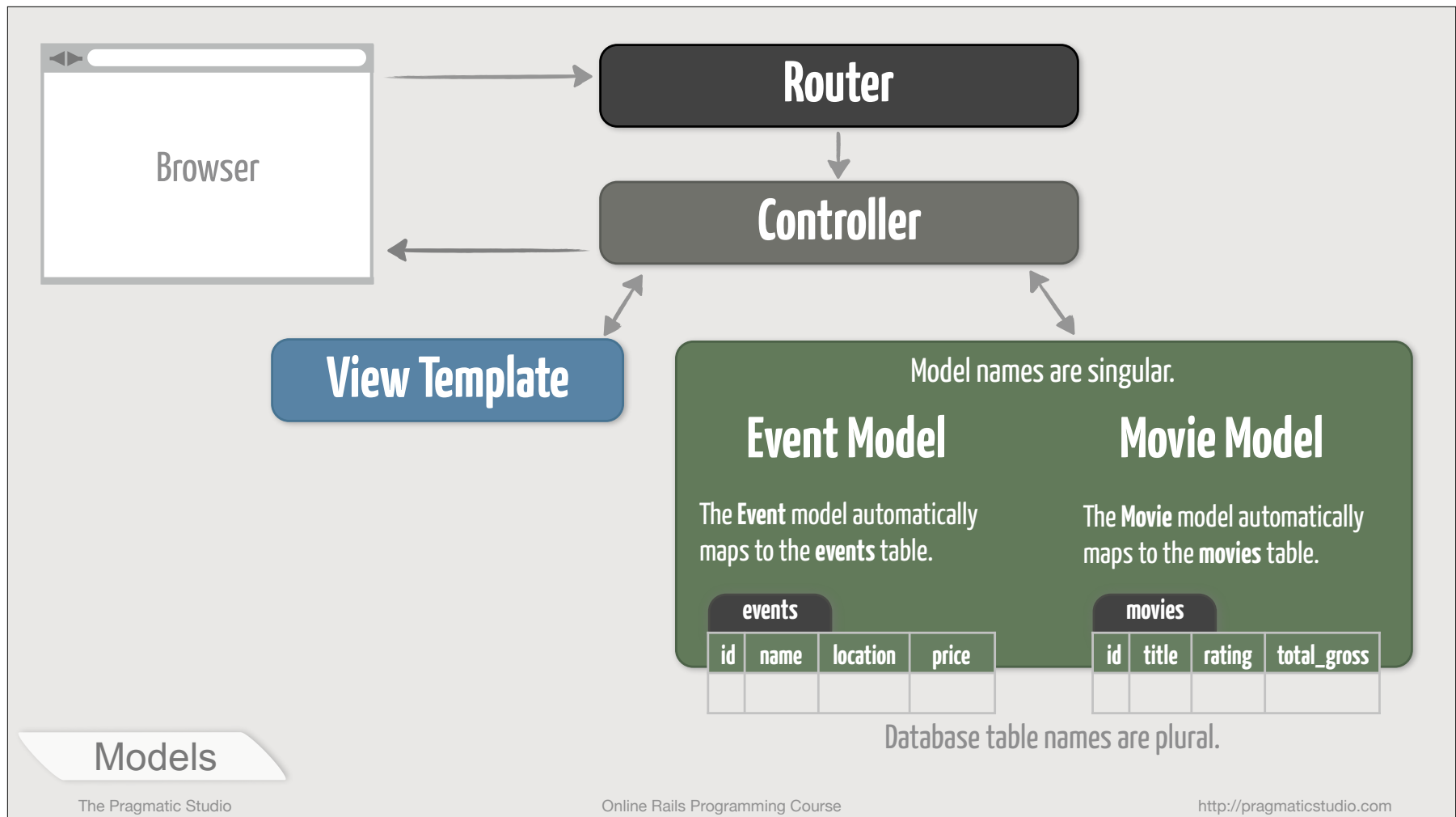
# Rails Programming

## CONVENTIONS

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## Event Model

### events

| id | name | location | price |
|----|------|----------|-------|
|    |      |          |       |

## Movie Model

### movies

| id | title | rating | total_gross |
|----|-------|--------|-------------|
|    |       |        |             |

Name your migration using the format **AddXXXToYYY**, and Rails will assume you want to add the listed column names and types to the YYY table. (The XXX part is arbitrary.)

```
rails g migration AddFieldsToEvents description:text starts_at:datetime
```

```
rails g migration AddFieldsToMovies description:text released_on:date
```

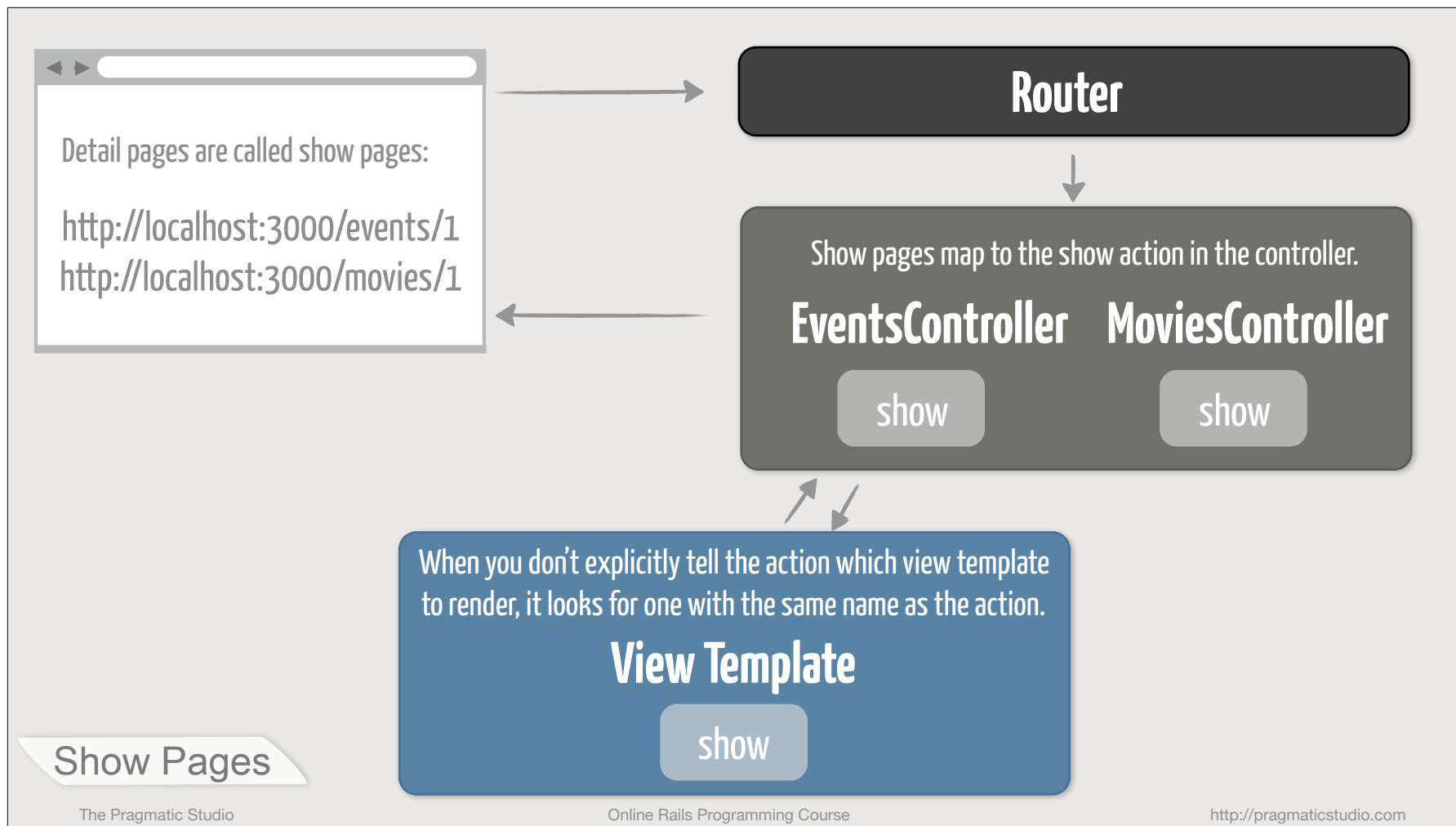
### events

| id | name | location | price | description | starts_at |
|----|------|----------|-------|-------------|-----------|
|    |      |          |       |             |           |

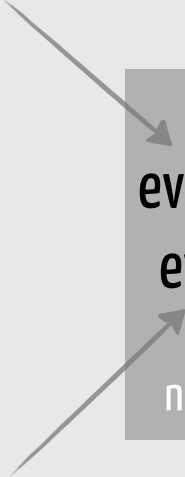
### movies

| id | title | rating | total_gross | description | released_on |
|----|-------|--------|-------------|-------------|-------------|
|    |       |        |             |             |             |

## Migration Names



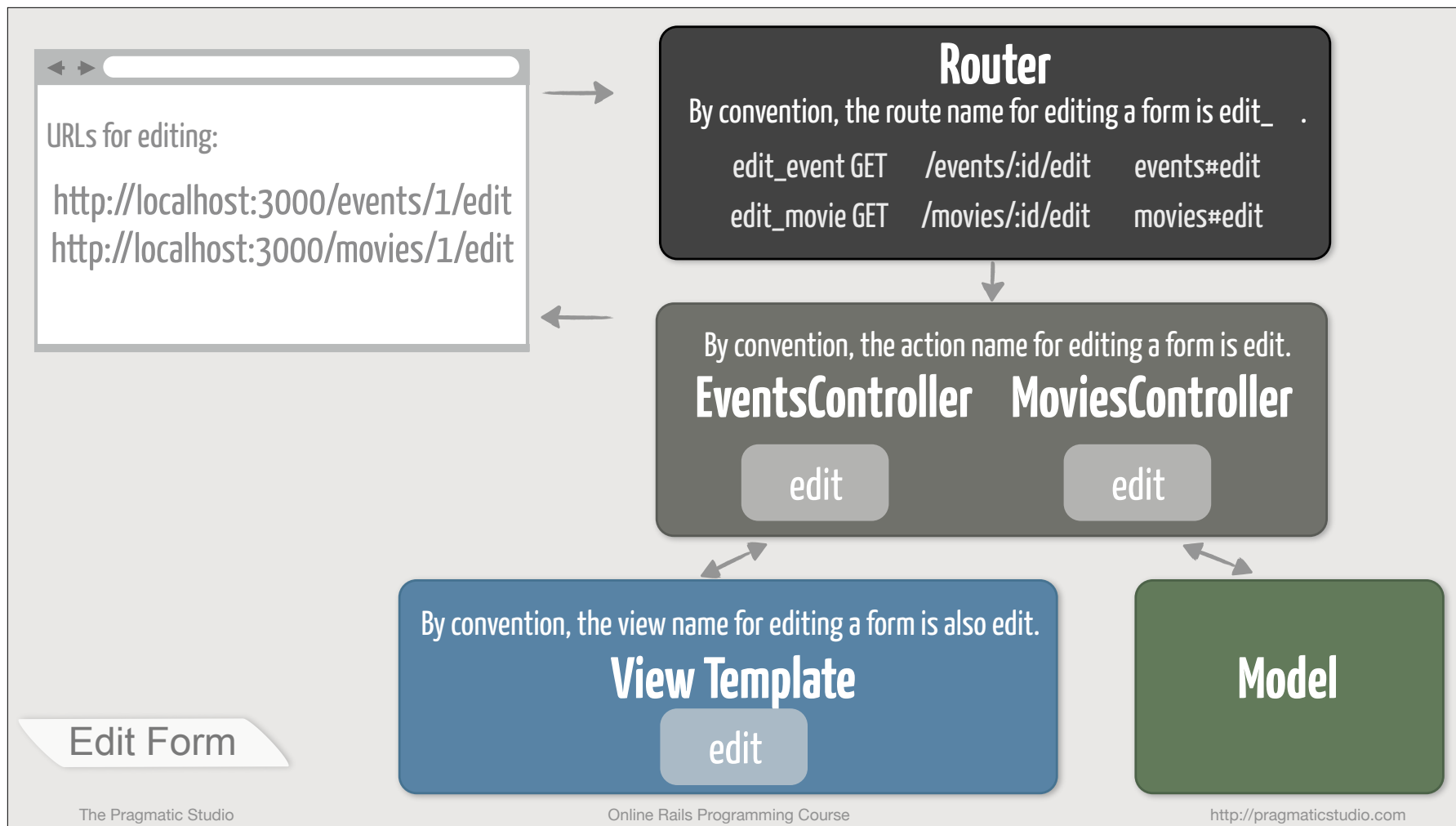
The name of the route that maps to the **index** action is **plural** because we're dealing with **multiple** things, such as multiple events or movies.

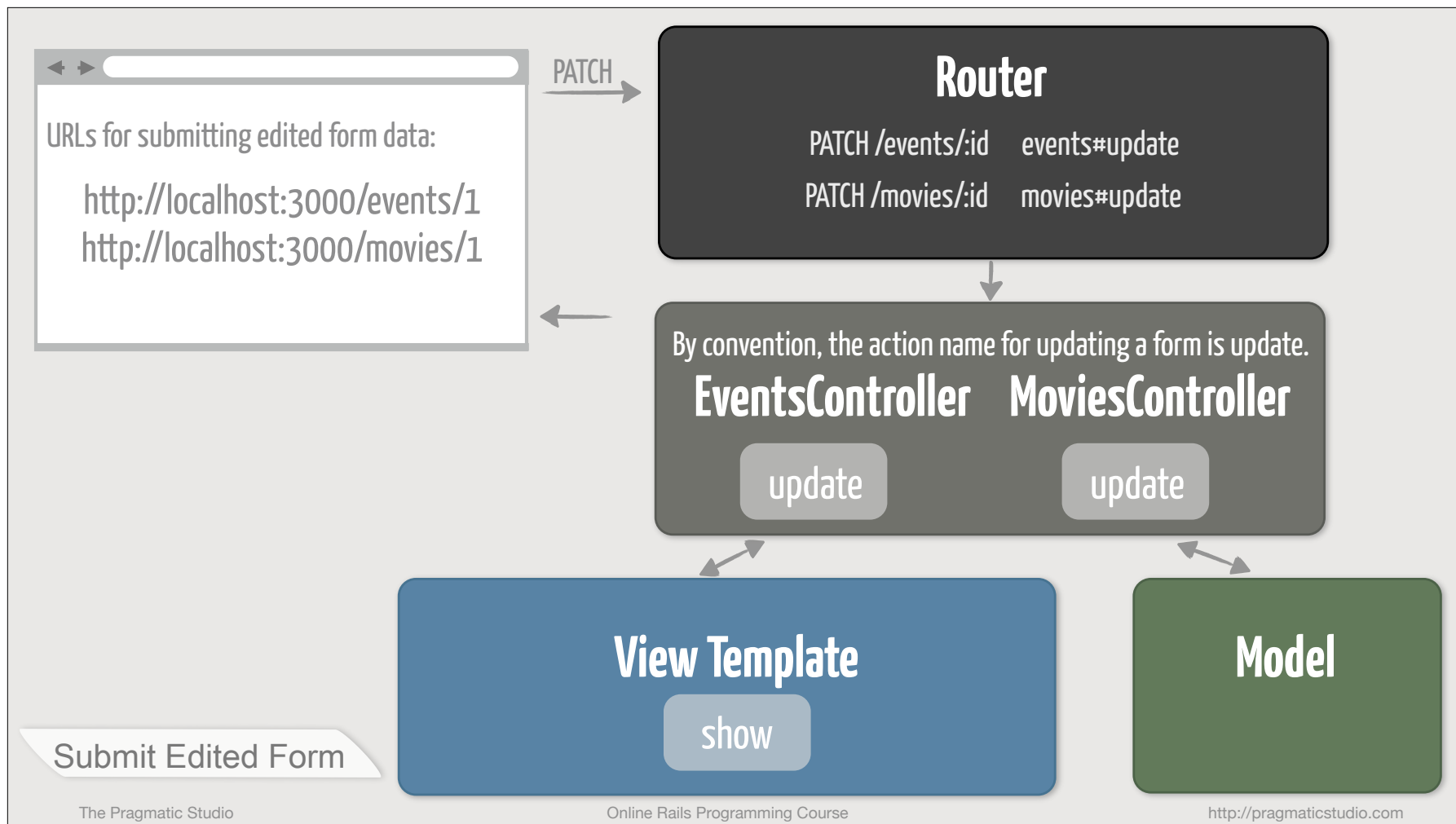


|                 |              |                                            |                             |
|-----------------|--------------|--------------------------------------------|-----------------------------|
| events<br>event | GET<br>GET   | /events(.:format)<br>/events/:id(.:format) | events#index<br>events#show |
| name            | HTTP<br>verb | URL pattern                                | controller#action           |

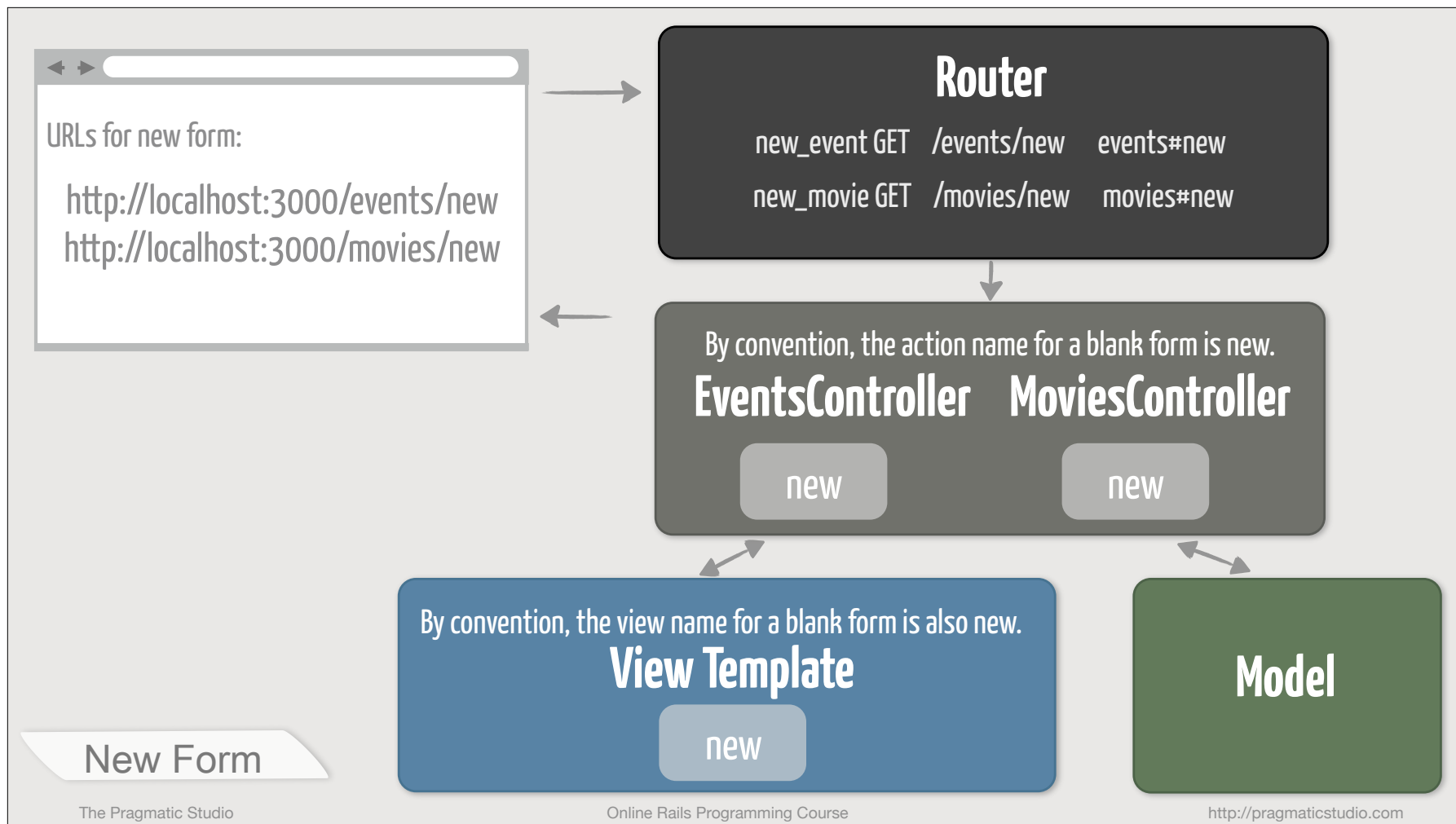
The name of the route that maps to the **show** action is **singular** because we're dealing with **one** thing, such as one event or movie.

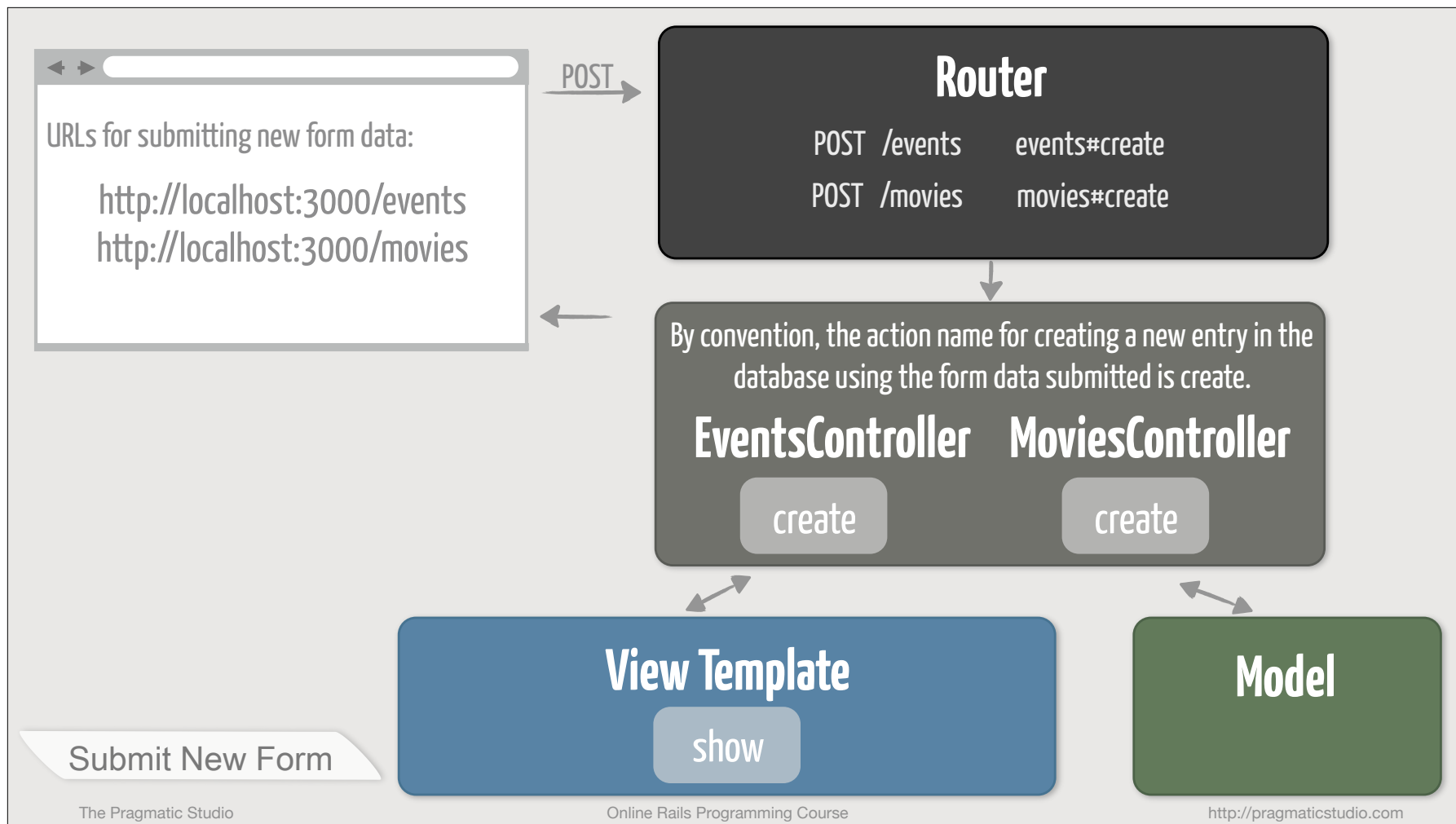
## Route Names

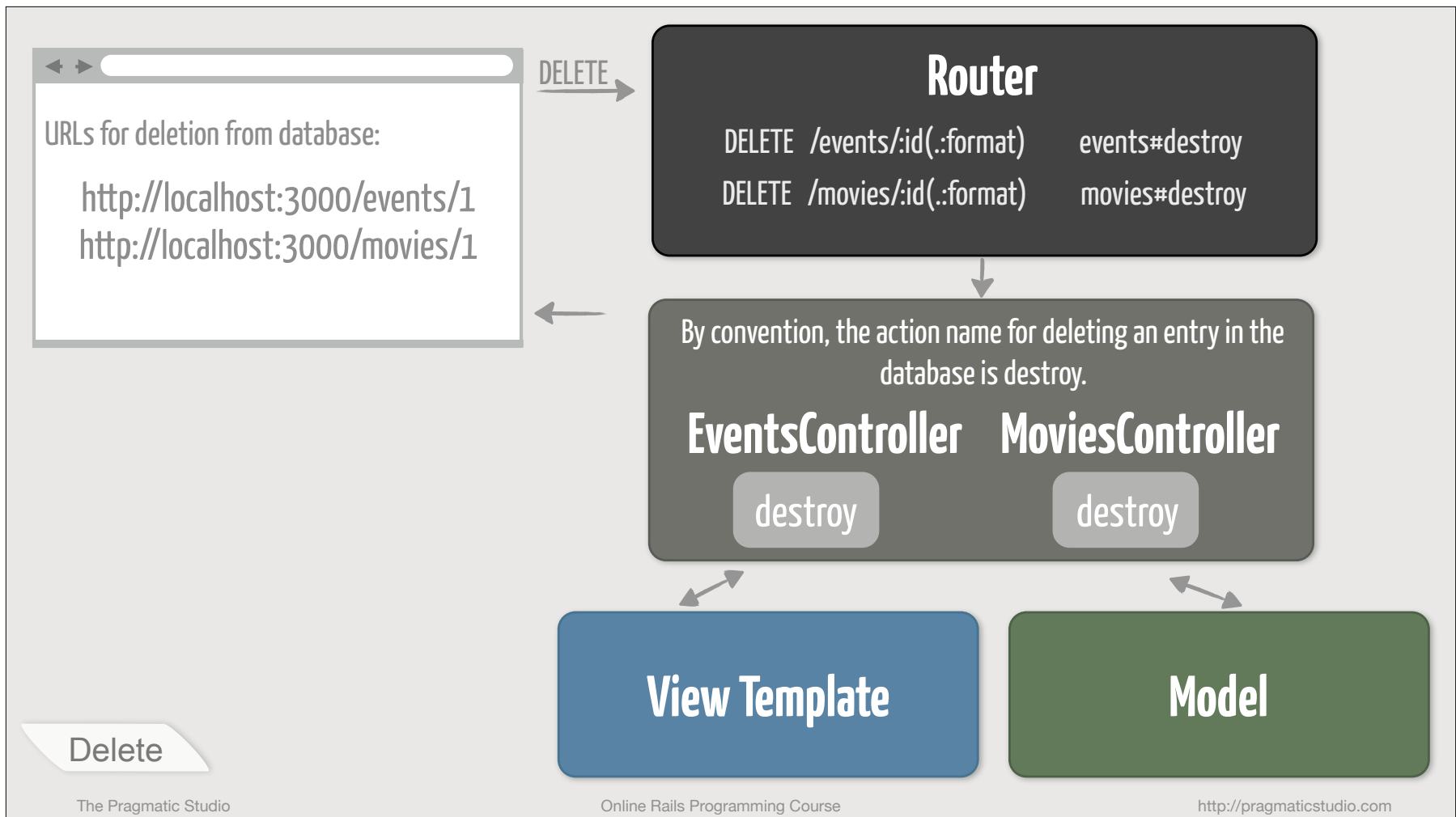












## resources :events

| Name       | HTTP Verb | URL Pattern      | controller#action |
|------------|-----------|------------------|-------------------|
| events     | GET       | /events          | events#index      |
| event      | GET       | /events/:id      | events#show       |
| edit_event | GET       | /events/:id/edit | events#edit       |
|            | PATCH     | /events/:id      | events#update     |
|            | PUT       | /events/:id      | events#update     |
|            | POST      | /events          | events#create     |
| new_event  | GET       | /events/new      | events#new        |
|            | DELETE    | /events/:id      | events#destroy    |

List All Events

Show Specific Event

Show Edit Form

Update Event

Update Event

Create New Event

Show New Form

Delete Event

## RESTful Conventions

|        |   |                            |
|--------|---|----------------------------|
| GET    | → | to read things             |
| PATCH  | → | to update (partial) things |
| POST   | → | to create things           |
| PUT    | → | to update things           |
| DELETE | → | to remove things           |

# Named Route Methods

|        |           |             |                   |
|--------|-----------|-------------|-------------------|
| events | GET       | /events     | events#index      |
| event  | GET       | /events/:id | events#show       |
| name   | HTTP verb | URL pattern | controller#action |

| Helper Method  | Generates                        |
|----------------|----------------------------------|
| events_url     | http://www.example.com/events    |
| events_path    | /events                          |
| event_url(id)  | http://www.example.com /events/1 |
| event_path(id) | /events/1                        |

The **\_path** method generates a **relative path**.

The **\_url** method generates the **full URL**.

## Event Model

```
class Event < ApplicationRecord
  has_many :registrations,
           :dependent => :destroy
end
```

| events |           |            |
|--------|-----------|------------|
| id     | name      | location   |
| 1      | BugSmash  | Denver, CO |
| 2      | Hackathon | Austin, TX |
| 3      | Kata Camp | Dallas, TX |

## Registration Model

```
class Registration < ApplicationRecord
  belongs_to :event
end
```

| registrations |       |                   |          |
|---------------|-------|-------------------|----------|
| id            | name  | email             | event_id |
| 1             | Larry | larry@stooges.com | 1        |
| 2             | Moe   | moe@stooges.com   | 1        |
| 3             | Moe   | moe@stooges.com   | 3        |

1 \*

One-to-Many

The entity on the “many” (child) end needs a foreign key referencing the entity on the “one” (parent) end.

The name of this foreign key needs to be the name of the “one” (parent) entity, followed by “\_id”.

## Event Model

```
class Event < ApplicationRecord
  has_many :registrations,
           :dependent => :destroy
end
```

### event.registrations

Returns an array of Registration objects that are associated with the event: all the registrations that have an event\_id matching the event's ID.

## Registration Model

```
class Registration < ApplicationRecord
  belongs_to :event
end
```

### registration.event

Returns the Event object associated with the registration: the event that matches the ID in the event\_id column.

1 \*

One-to-Many



Put as much **business logic** into the model as you can.

## Event Model

```
def free?  
  price.blank? || price.zero?  
end  
  
def spots_left  
  capacity - registrations.count  
end  
  
def sold_out?  
  spots_left.zero?  
end
```

## Movie Model

```
def flop?  
  total_gross.blank? || total_gross < 50000000  
end  
  
def average_stars  
  reviews.average(:stars)  
end
```

Business Logic