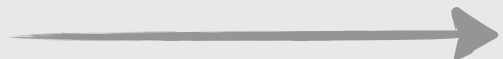


— CONVENTIONS — Ruby on Rails

<https://pragmaticstudio.com>

The URL often reflects the name of a controller, but it's not necessary.

`http://localhost:3000/events`
`http://localhost:3000/movies`



Router



Controller names are plural.
The action to list things is named index.

EventsController MoviesController

index index

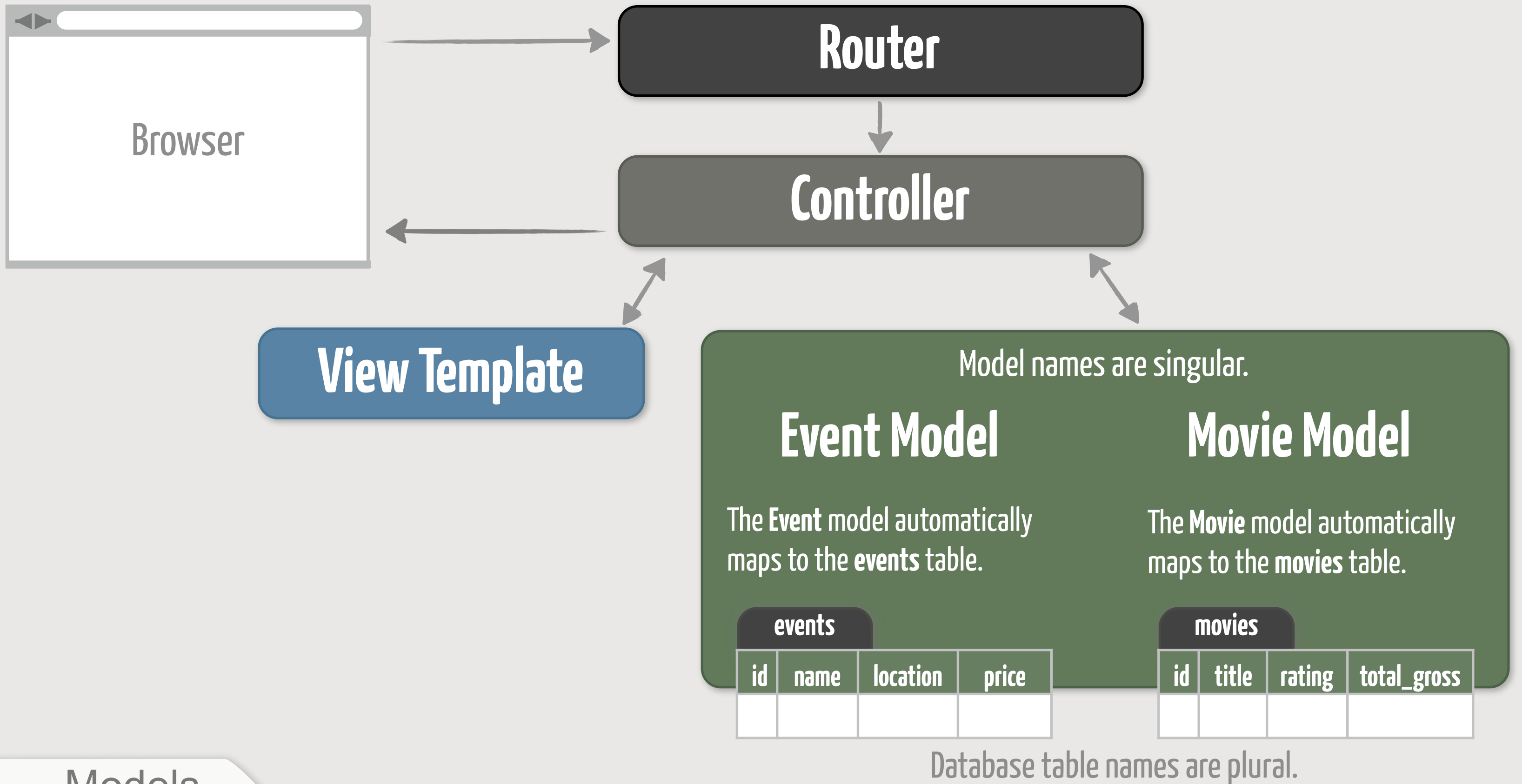


When you don't explicitly tell the action which view template to render, it looks for one with the same name as the action.

View Template

index.html.erb

Index Page



Models

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
```

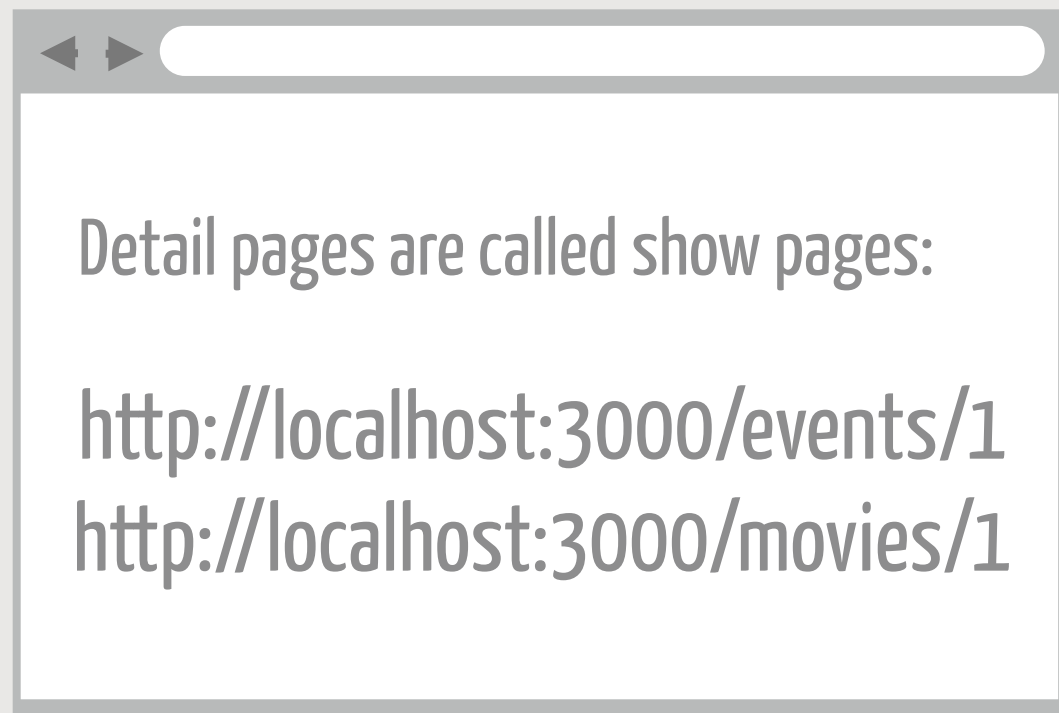
events

id	name	location	price	description	starts_at

movies

id	title	rating	total_gross	description	released_on

Migration Names



Show Pages

The helper that generates a URL path to the **index** action is **plural** because we're dealing with **multiple** things, such as multiple events or movies.



events_path	GET	/events(.:format)	events#index
event_path	GET	/events/:id(.:format)	events#show
name	HTTP verb	URL pattern	Controller#Action

The helper that generates a URL path to the **show** action is **singular** because we're dealing with **one** thing, such as one event or movie.

Route Names

URLs for editing:

http://localhost:3000/events/1/edit
http://localhost:3000/movies/1/edit

Router

By convention, the route name for editing a form is edit_ .

edit_event	GET	/events/:id/edit	events#edit
edit_movie	GET	/movies/:id/edit	movies#edit

By convention, the action name for editing a form is edit.

EventsController

edit

MoviesController

edit

By convention, the view name for editing a form is also edit.

View Template

edit

Model

Edit Form

URLs for submitting edited form data:

http://localhost:3000/events/1
http://localhost:3000/movies/1

PATCH

Router

PATCH /events/:id events#update

PATCH /movies/:id movies#update

By convention, the action name for updating a form is update.

EventsController **MoviesController**

update

update

View Template

show

Model

Submit Edited Form

URLs for new form:

<http://localhost:3000/events/new>
<http://localhost:3000/movies/new>

Router

new_event	GET	/events/new	events#new
new_movie	GET	/movies/new	movies#new

By convention, the action name for a blank form is new.

EventsController

MoviesController

new

new

By convention, the view name for a blank form is also new.

View Template

new

Model

New Form

URLs for submitting new form data:

http://localhost:3000/events
http://localhost:3000/movies

POST →

Router

POST /events events#create

POST /movies movies#create



By convention, the action name for creating a new entry in the database using the form data submitted is create.

EventsController

MoviesController

create

create



View Template

show

Model

Submit New Form

URLs for deletion from database:

http://localhost:3000/events/1
http://localhost:3000/movies/1

DELETE →

Router

DELETE /events/:id(.:format) events#destroy

DELETE /movies/:id(.:format) movies#destroy



By convention, the action name for deleting an entry in the database is destroy.

EventsController

MoviesController

destroy

destroy



View Template

Model

Delete

resources :events

Helper	HTTP Verb	URL Pattern	Controller#Action
events_path	GET	/events	events#index
event_path	GET	/events/:id	events#show
edit_event_path	GET	/events/:id/edit	events#edit
	PATCH	/events/:id	events#update
	PUT	/events/:id	events#update
	POST	/events	events#create
new_event_path	GET	/events/new	events#new
	DELETE	/events/:id	events#destroy

RESTful Conventions

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

Route Helper Methods

events_path	GET	/events	events#index
event_path	GET	/events/:id	events#show
helper	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

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
```

Registration Model

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

1 *

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.event

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

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
```