

Scaffold and decoration

A Rails scaffold is an auto generated framework for manipulating a model.

We will provide the Generator wizard with a model name (which it will create) and its fields structure (analogous to a database table). A Model, an appropriate controller and a set of viewers will be automatically created.

In Rails, a model is automatically mapped to a database table whose name is the plural form of the model's class.

Let's start a new project and see how it works.

Walkthrough these steps:

Summary:

1. Create a new Ruby on Rails project, call it "Movie".
2. Create the database "Movies_development" using Rake.
3. Right click on the project and select "Generate".
4. Choose "Scaffold" Generator
 - a. In the "Model Name" field write: **Movie**
 - b. In the "Attribute Pairs" field write:
title:string description:text price:decimal date:datetime
5. Right click on the project and select:
"Migrate database" => "To current version"
6. Right click on the project and select "Run".
7. Add Page Decorations - open Views/layout/movies.html.erb
 - a. **Headline** - Add this line above <%=yield%>:
**
<center><U>Movies
Library</U>

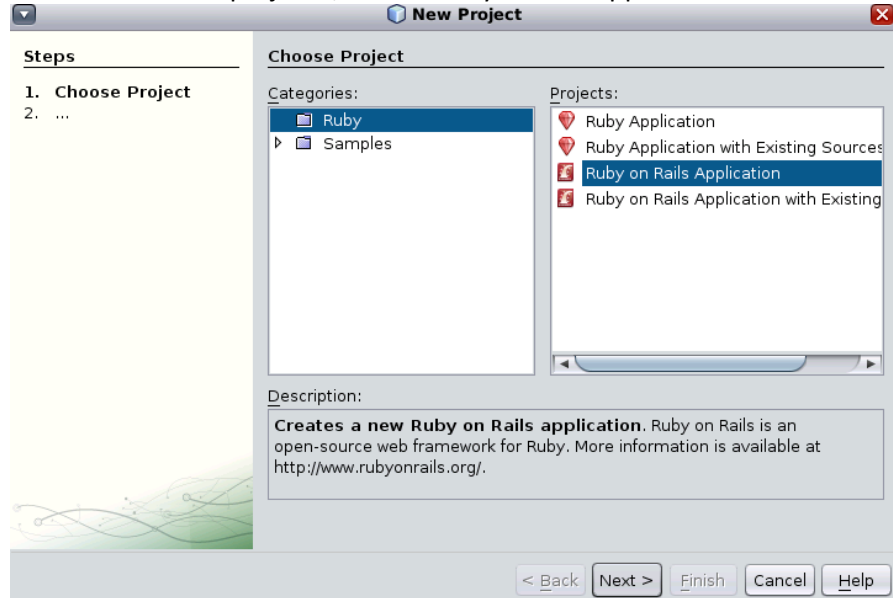
</center>**
 - b. **Signature** - Add this line below <%=yield%>:
**
<center>Done by
(YourName)
(YourEmail)

</center>**
Replace the brackets with your details.
 - c. Save the file.
8. Refresh firefox.
9. Optional: add some validation.
 - a. Open the model, Models/movie.rb
 - b. Change it to :
**class Movie < ActiveRecord::Base
 validates_presence_of :title
 validates_presence_of :description
end**

Full description:

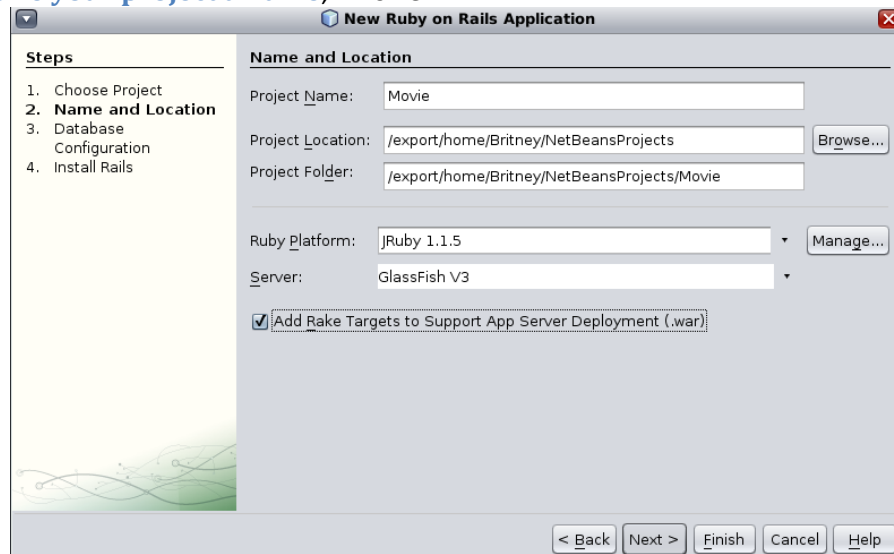
1. Create a new Ruby on Rails project, call it "Movie".

a. Click on file -> "New project", select "Ruby on rails application"



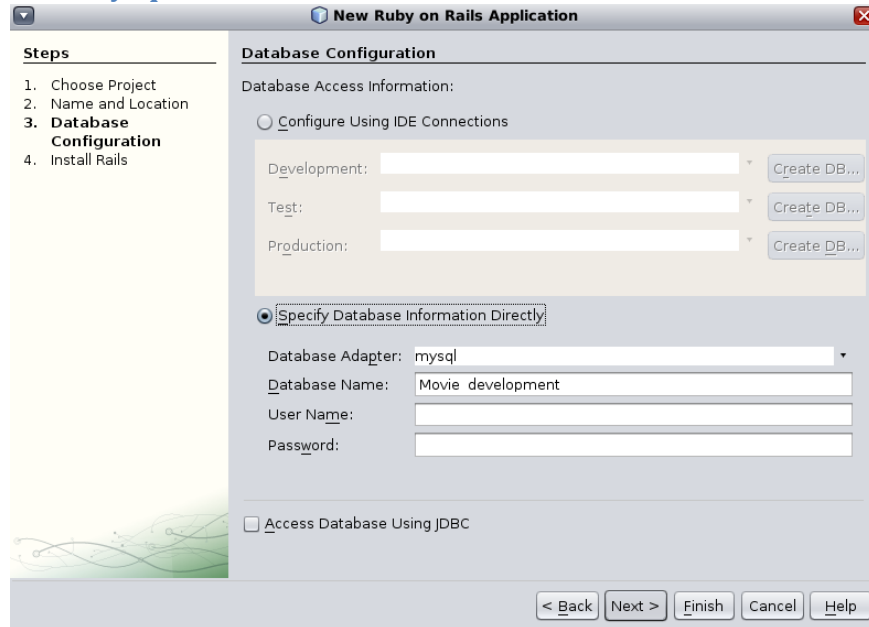
Click "Next"

b. Give your project a name, "Movie"



Click Next.

c. Choose MySQL database



Click Finish.

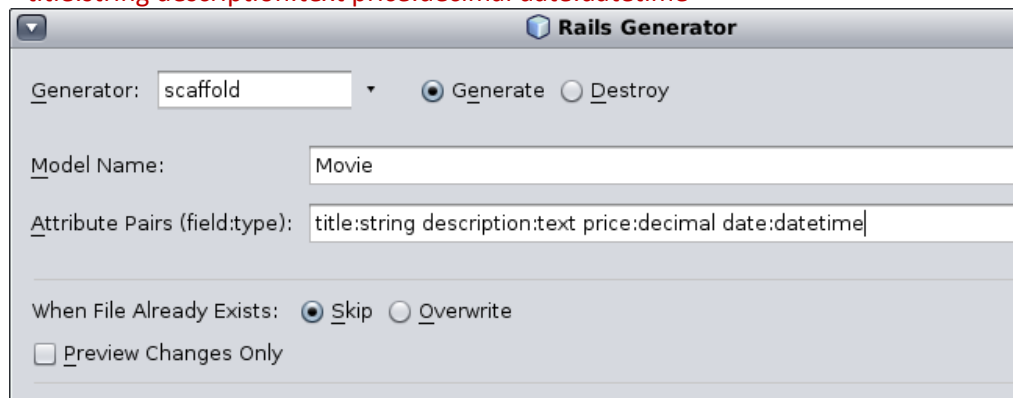
NetBeans is generating a Rails project and install a warbler in it.

2. Right click on the project and select "Generate" and Choose "Scaffold" Generator.

a. In the "Model Name" field write: **Movie**

b. In the "Attribute Pairs" field write:

title:string description:text price:decimal date:datetime



c. Click OK, The "scaffold" generator created this files:

create app/views/movies

The Viewers:

create app/views/movies/index.html.erb

create app/views/movies/show.html.erb

create app/views/movies/new.html.erb

create app/views/movies/edit.html.erb

create app/views/layouts/movies.html.erb

CSS file:

create public/stylesheets/scaffold.css

Controller:

create app/controllers/movies_controller.rb

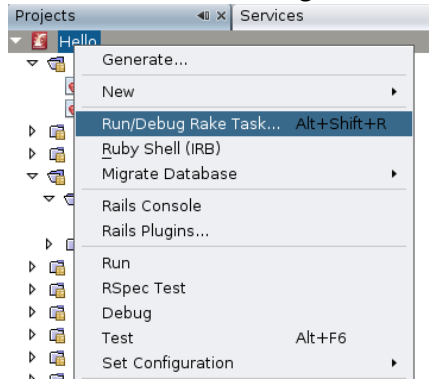
Model:

create app/models/movie.rb

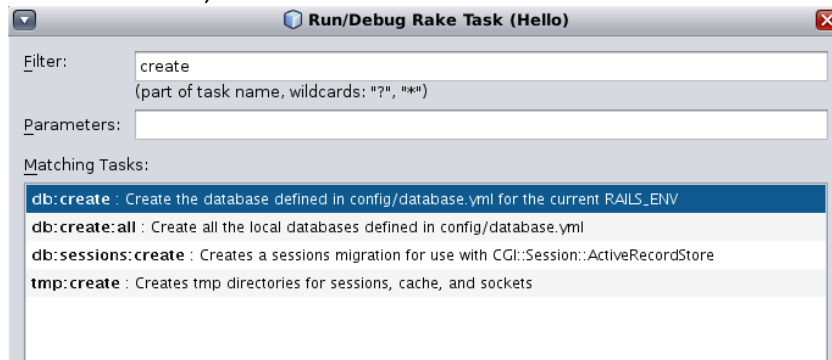
Database migration:

create db/migrate/XXX_create_movies.rb

3. **Create the database** – Right click on the project and select "Run/Debug Rake Task..."

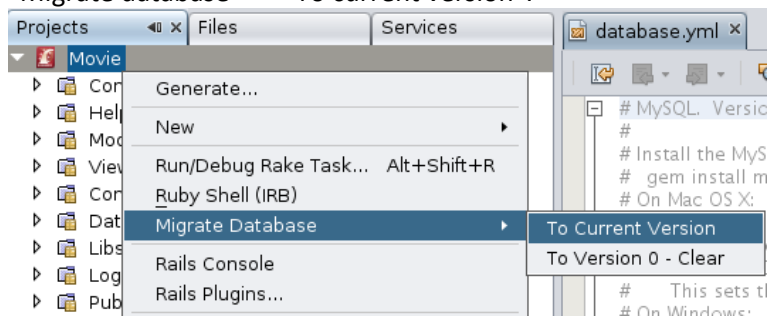


In the Filter field, write "create" the machine task will be db:create



Click RUN

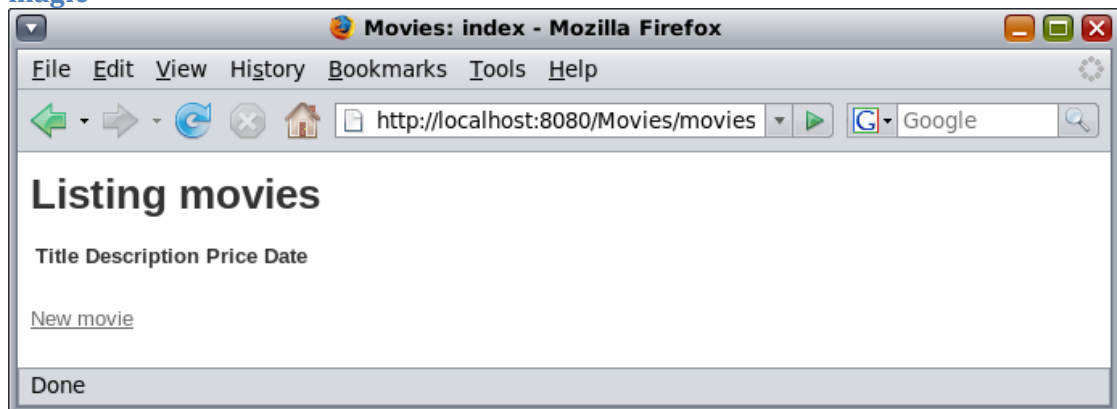
4. **Right click on the project and select:**
"Migrate database" => "To current version".



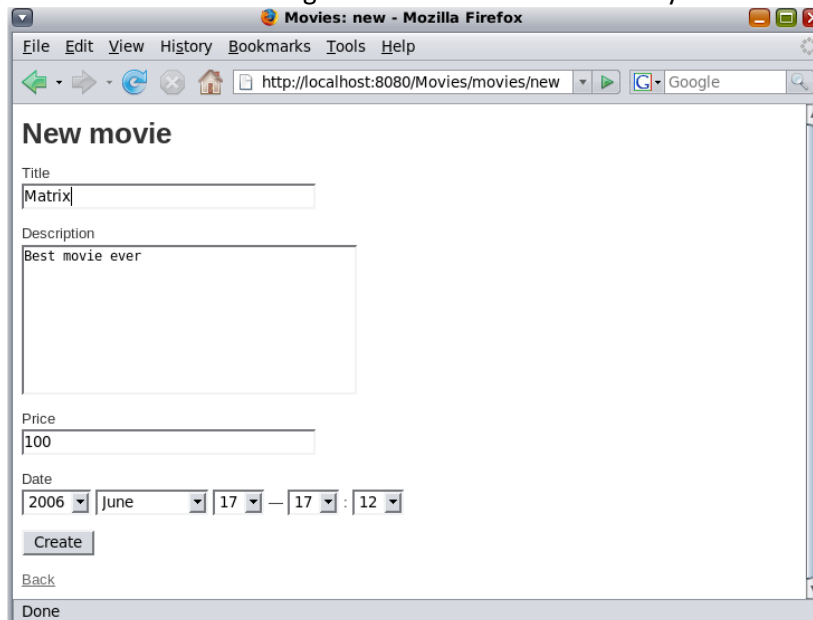
This creates the MySql tables.

5. Right click on the project and select "Run".

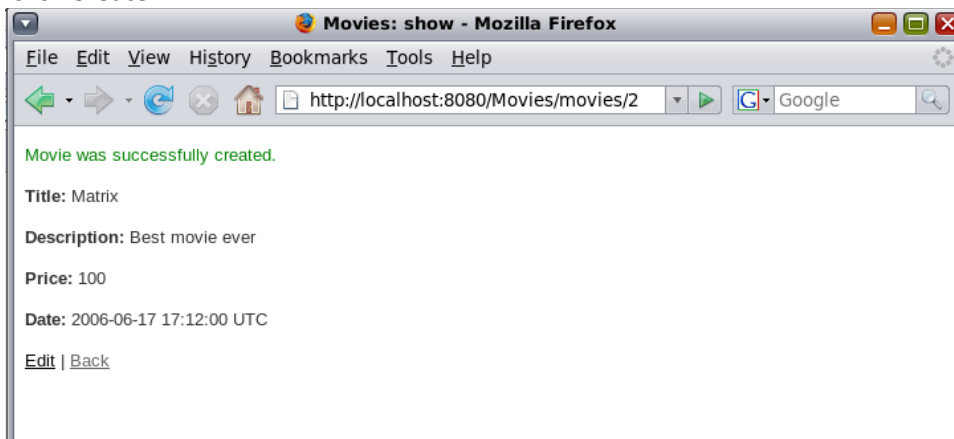
6. Point your browser to <http://localhost:8080/Movies/movies> and take a look at the magic



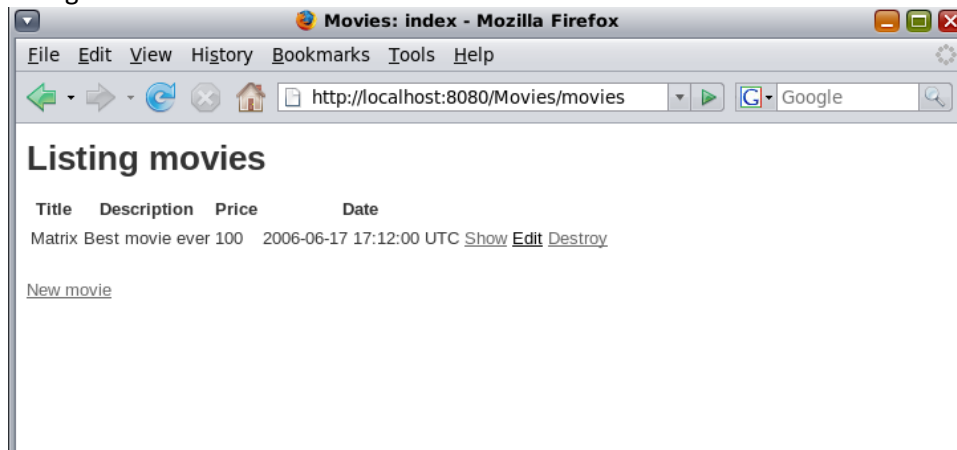
7. It looks pretty bare, but we don't have any inventory yet. Click on the 'New Movie' link to start adding some movies to the inventory.



click Create



8. Click the button labeled 'Back' (not the browser back arrow) to return to the main listing and add another movie.



This is still pretty bare bones, but we haven't even written any real code yet!

9. **Optional: add some validation.**

- Open the model, `Models/movie.rb`
- Change it to :

```
class Movie < ActiveRecord::Base
  validates_presence_of :title
  validates_presence_of :description
end
```

Add Page Decorations

*The pages in a particular web site typically share a similar layout.
The designer is creating a standard template which is used when placing content.
Our job is to add this page decoration to each of the movie pages.
Fortunately, in Rails we can define layouts.
A Rails layout is a template which wraps over the content of each viewer.
Because there's only one layout, we can change the look and feel of this entire section of our site by editing just one file.*

*There are many ways of specifying and using layouts in Rails.
We'll choose the simplest for now. If you create a template file in the
app/views/layouts directory with the same name as a controller, all views rendered
by that controller will use that layout by default.
So let's create one now, our controller is called movies, so in the layout folder we can
look for movies.rhtml.erb .*

1. **Open** `movies.rhtml.erb` – just double click it.
2. **Let's have a short look at the file:**
(Note: if you can't see line numbers click on view->Show Line Numbers)
 - a. Lines 1-2 : HTML comments.
 - b. Lines 4-9: Page specification for HTTP protocol, and the page title.

c.Lines 10-16: The body, in line 14 you can see `<%=yield%>` tag, this is where the viewer is placed.

3. Let's add headline and signature to all pages

a. Headline - Add this line above `<%=yield%>`:

```
<BR><center><font color="green" size="8"><B><U>Movies  
Library</U></B></font><BR><BR></center>
```

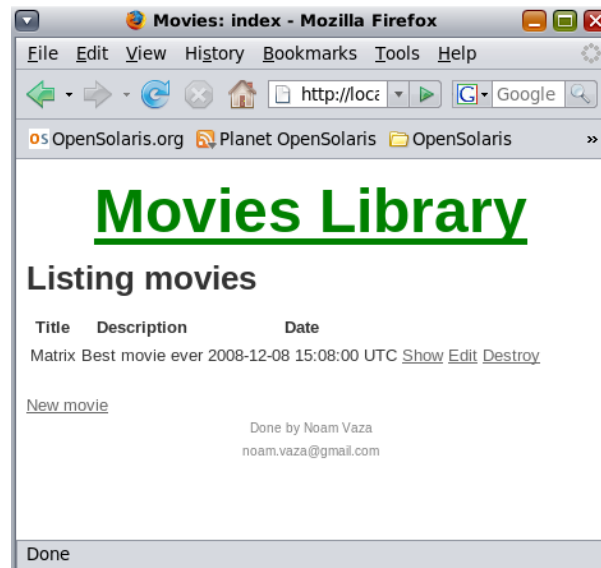
b. Signature - Add this line below `<%=yield%>`:

```
<BR><center><font color="grey" size="1">Done by  
(YourName)<BR>(YourEmail)</font><BR><BR></center>
```

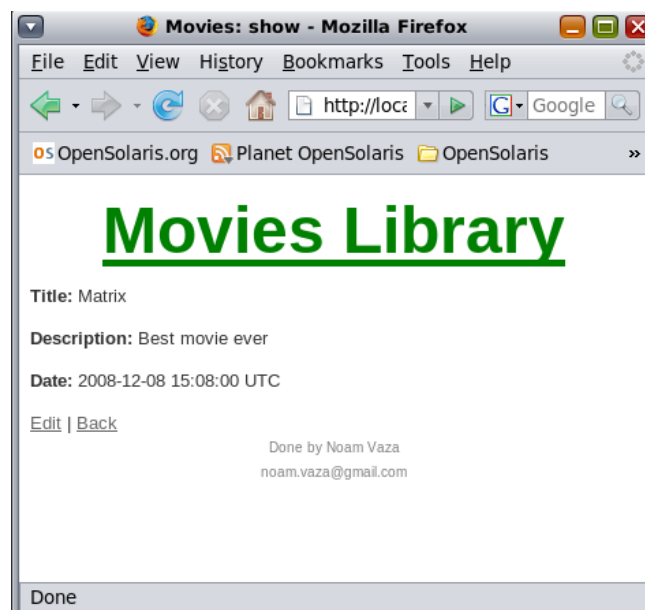
Replace the brackets with your details.

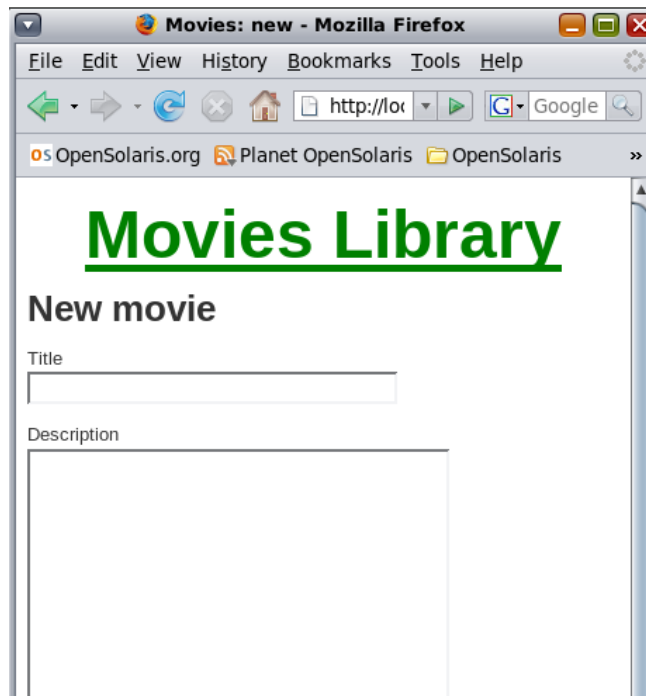
c. Save the file.

4. Refresh firefox.



This headline and signature are shown in all controller's pages.





... Now sit and wait for the designer