

Debugging JRuby on Rails applications in NetBeans

6.5

In this section we'll debug a RoR application in NetBeans, Ruby debugger is a great tool for debugging and it has a great interface with NetBeans and Glassfish.

We'll work on the Movie_ex project already prepared for you in NetBeans, this is the solution for the "Scaffold and decoration" example from this code camp.

In this example we'll set a break point in the Ruby HTML file and look at the Ruby variable attributes.

Let`s get started.

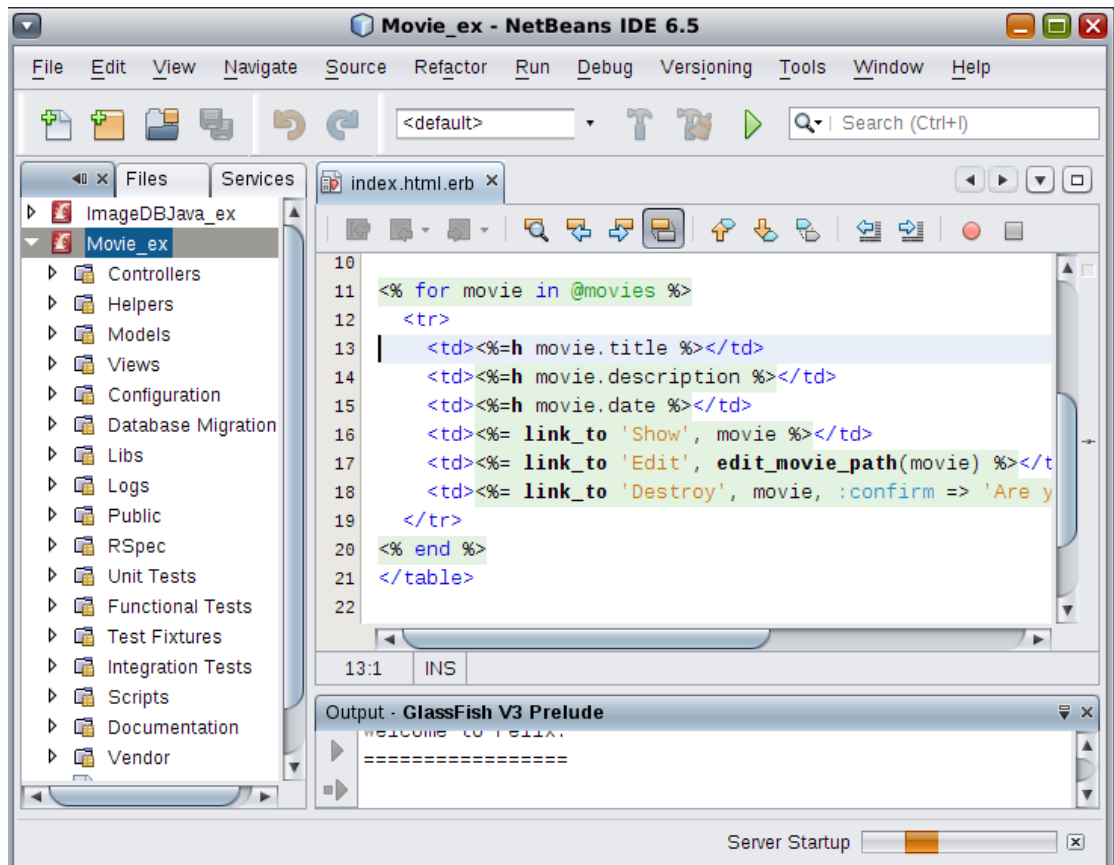
Summary:

1. Open NetBeans and look for the "Movie_ex" project.
2. Expand Movie_ex -> Views -> movies
3. Open the index.html.erb file – this file created using "scaffold" it is the viewer that present all the data in the database.
4. At this point the database is empty, so let`s add some data into it:
Run the application and direct you browser to :
http://localhost:8080/Movie_ex/movies
Click on "New movie".
Add some new movies, for example:
"Title: Matrix Description: Greatest movie ever"
"Title: Rush Hour Description: Funny but no plot"
Click "create"
Click "Back"
This page is build by the index.html.erb viewer.
5. To debug this file we must run the project in debug mode, close you browser, go back to NetBeans and stop the Glassfish server.
6. Now that we have some data in the database let`s run the debugger on this viewer.
Right click on the project and select Debug.
Glassfish in starting in debug mode and deploy your application at root.
7. Direct your browser to:
<http://localhost:8080/movies>
8. Add a break point at line 12, Just click the line number.
(Note: if you can`t see the line numbers go to View ->Show line numbers)
9. Refresh your browser... nothing happens... the browser is waiting
10. Back to NetBeans: The debugger stops at the break point.
At the "Local Variable" tab you can see the values of all variables.
11. Expand Movie->@attributes:
All attributes of movie variable are display here.
This is the first movie you added to the database.
12. Click F5 (**Twice?!)** - the data of the second movie is in the movie variable.

13. Click F5 (Twice?!) – The running has finished and the page is displayed in the browser.

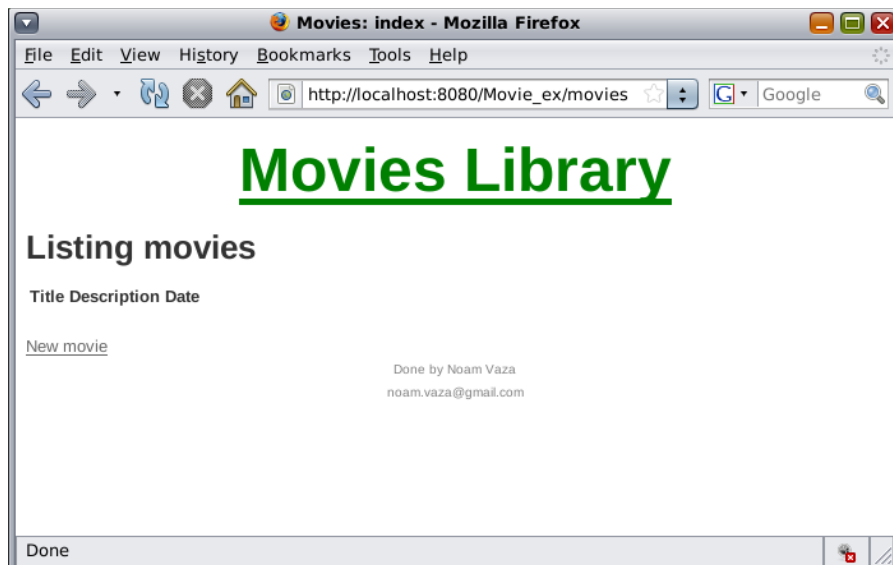
Full description

1. Open NetBeans and look for the "Movie_ex" project.
2. Expand Movie_ex -> Views -> movies
3. Open the index.html.erb file – this file created using "scaffold" it is the viewer that presents all the data in the database.



4. At this point the database is empty, so let's add some data into it:
Run the application – Right click on the project and select RUN.

5. Direct your browser to: http://localhost:8080/Movie_ex/movies



Click on "New movie".

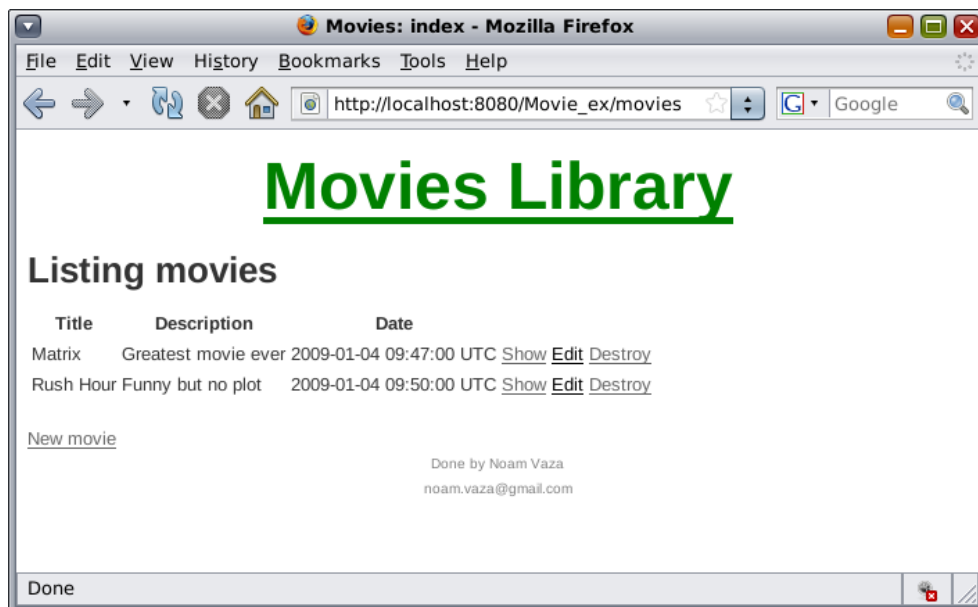
Add some new movies, for example:

"Title: Matrix Description: Greatest movie ever", Click "create", Click "Back".

And you may add another one like :

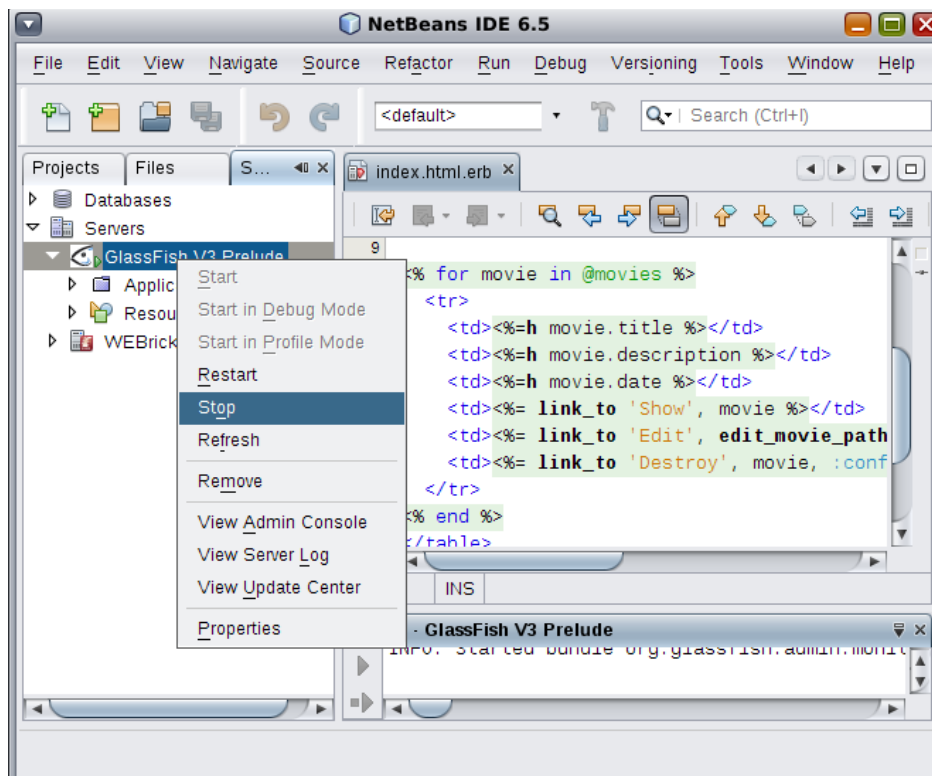
"Title: Rush Hour Description: Funny but no plot"

Click "create", Click "Back", you should see your movies list:

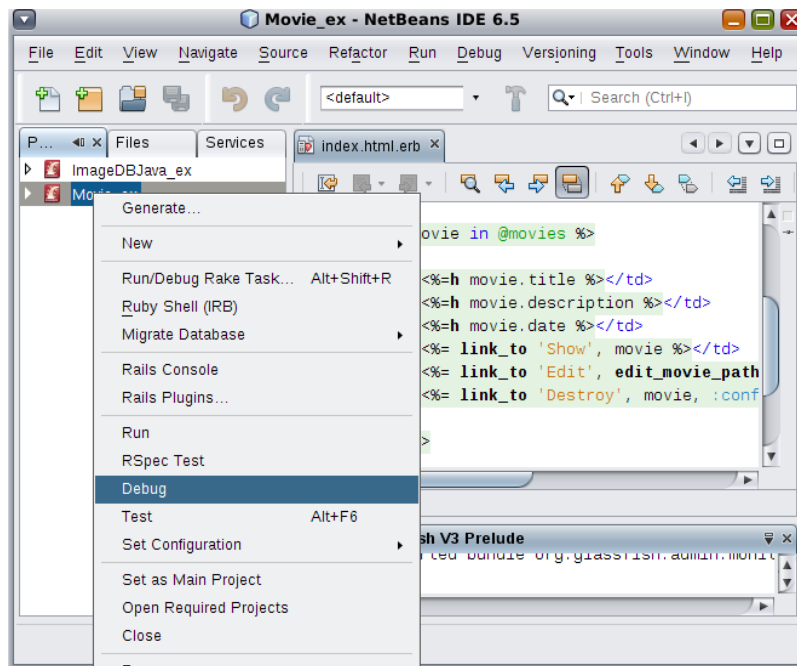


This page is built by the index.html.erb viewer.

6. To debug this file we must run the project in debug mode, close your browser, go back to NetBeans and stop the Glassfish server.
- In the "services" tab, expand "Servers", right click on "Glassfish" and select "Stop".



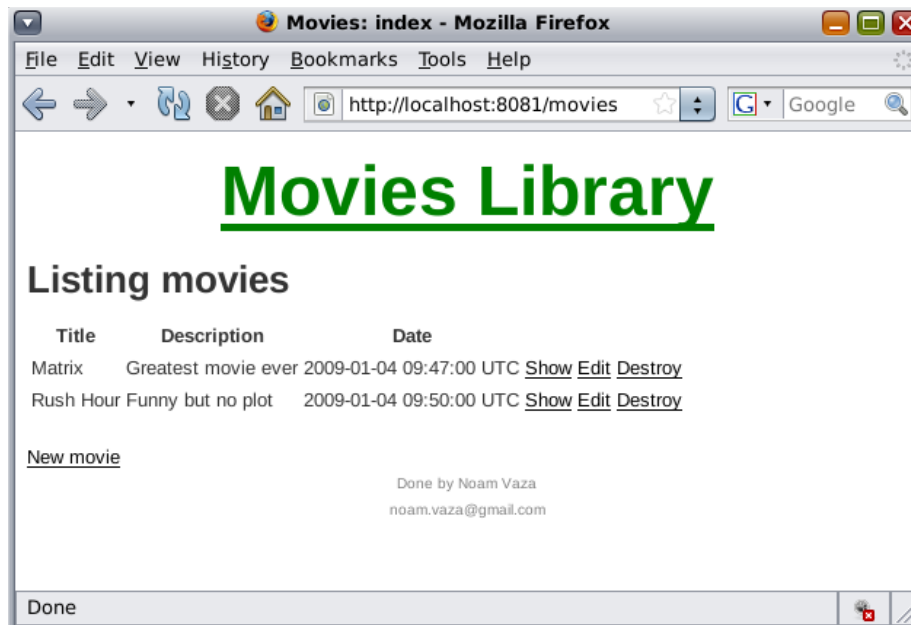
7. Now that we have some data in the database let's run the debugger on this viewer.
- Right click on the project and select Debug.



Glassfish in starting in debug mode and deploys your application at root.

8. Direct your browser to:

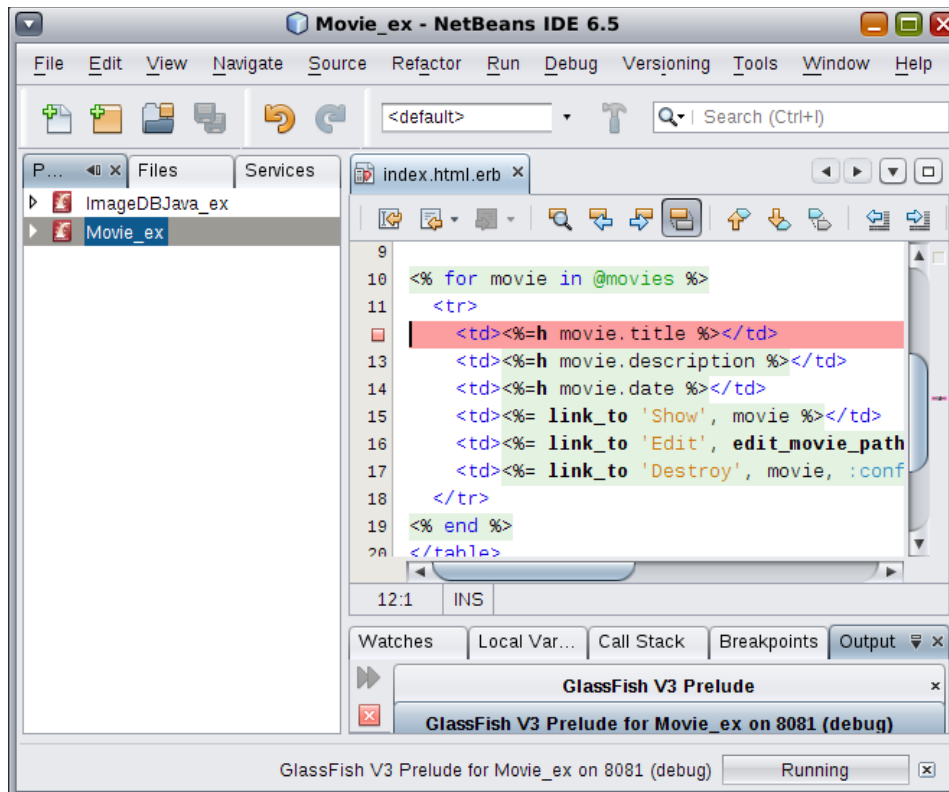
<http://localhost:8080/movies>



9. NetBeans is in debug mode now, to add a break point Just click on the line number

Add a break point at line 12.

(Note: if you can't see the lines number go to View -> Show line numbers)



10.Refresh your browser... nothing ha?!

the browser is waiting.

11.Go back to NetBeans: The debugger stops at the break point, marked with the green arrow.

```
10 <% for movie in @movies %>
11   <tr>
12     <td><%=h movie.title %></td>
13     <td><%=h movie.description %></td>
14     <td><%=h movie.date %></td>
```

12. Look at the "Local Variable" tab you can see the values of all variables.

Watches			Local Variables			Call Stack			Breakpoints		
Name			Type			Value					
▶	◆	self	ActionView::Base			...	#<ActionView::Base:0xbc...			...	▲
▶	◆	movie	Movie			...	#<Movie:0x4383e3>			...	
	◆	local_assigns	Hash			...	Empty Hash			...	
	◆	_erbout	String			...	<h1>Listing movies</h1>	
▶	◆	Global Variables				

13.Expand Movie->@attributes: All attributes of "movie" variable are display here.

Watches			Local Variables			Call Stack			Breakpoints		
Name			Type			Value					
▶	◆	self	ActionView::Base			...	#<ActionView::Base:0xbc...			...	▲
▼	◆	movie	Movie			...	#<Movie:0x4383e3>			...	
	▼	◆	@attributes	Hash		...	Hash (6 element(s))			...	
		◆	'updated_at'	String		...	2009-01-04 09:50:31			...	
		◆	'title'	String		...	Matrix			...	
		◆	'id'	String		...	1			...	
		◆	'description'	String		...	Greatest movie ever			...	
		◆	'date'	String		...	2009-01-04 09:47:00			...	
		◆	'created_at'	String		...	2009-01-04 09:50:31			...	
		◆	@attributes_cache	Hash		...	Empty Hash			...	

This is the first movie you've added to the database.

14.To continue Click F5 – And again you'll see the data of the second movie in the movie variable.

15. Click F5 – If you had only 2 movies in the database. The run has finished and the browser shows you page.