# CREATING A SIMPLE TODO APP USING RAILS AND MYSQL

1. Create a rails application with database as mysql. Make sure mysql is already installed.

### rails new todo -d mysql

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2. Go inside the newly created folder called todo and Is to see the folders and files which got created.

#### cd todo

ls

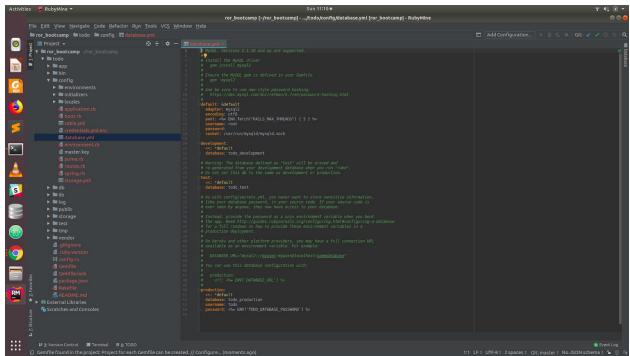
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3. Now open the folder **todo** in RubyMine or any other text editor you use.

# Go to todo/config/database.yml

Open the file.

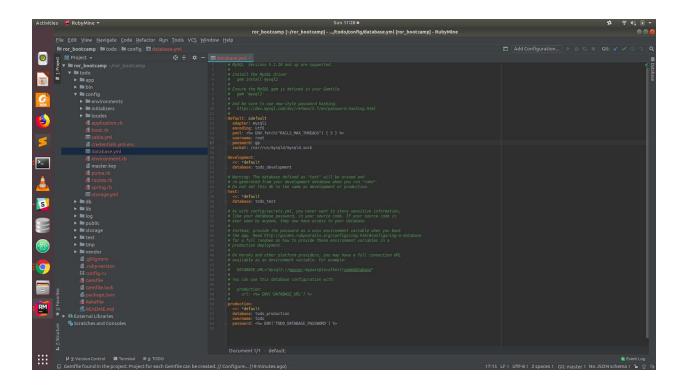


You can see that the adapter says mysql2 which means that the database which we are using is mysql.

4. Fill the username and password field with the username and password you chose while installing mysql in your systems.

Eg. my username and password are

Username: root Password: gp

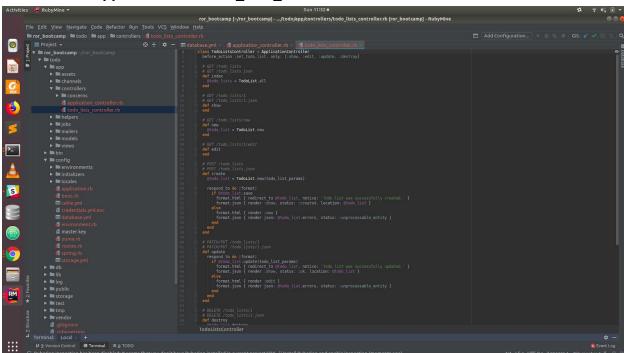


5. After that create a todo\_list using scaffold

#### rails g scaffold todo list title: string description:text

This will create the controller, model, views, migration whatever is necessary. We will have a look at the things it generated for us one by one.

#### 6. Go to todo/app/controllers/todo\_lists\_controller.rb



You can see the class TodoListsController which is inheriting from the class ApplicationController in the first line.

The class has all the functions defined which are called actions. They are defined with a keyword def and ended with end. Eg index, show, new etc.

## 7. Go to todo/app/views/todo\_lists

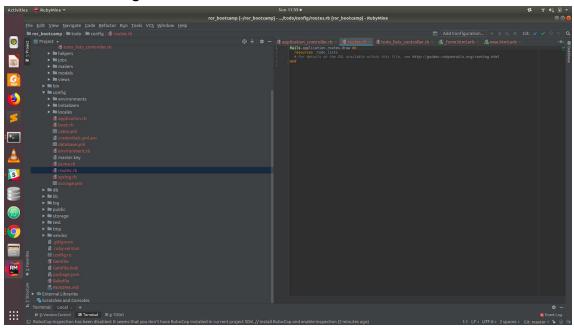
Here you can find lot of .html.erb files which take care of how your application appears. .erb refers to embedded ruby which means you can use ruby variables inside the html files but there is a proper syntax for that <% %> and <%= %> . The difference between these you can google .

All the html.erb files are files are named same as the action . This is how rails know which html file to render when by finding the corresponding named html.erb file from the views.

8. You can go to each of these .html.erb files and try to understand what's happening there.

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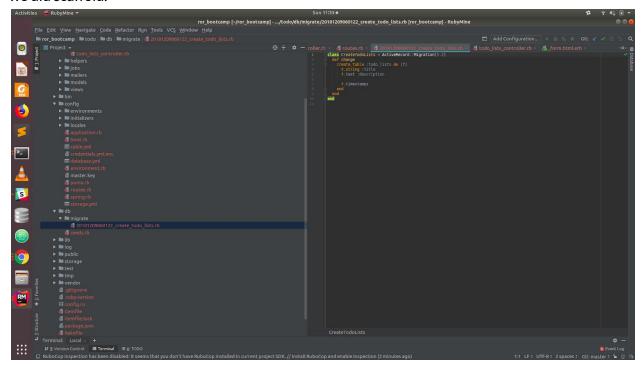
## 9. Go to todo/config/routes.rb



Here all the routes are defined.

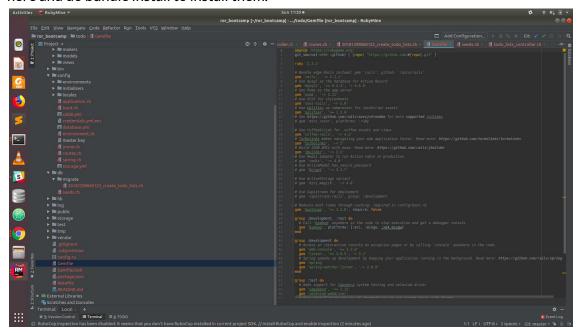
Resource routing allows you to quickly declare all of the common routes for a given resourceful controller. Instead of declaring separate routes for your index, show, new, edit, create, update and destroy actions, a resourceful route declares them in a single line of code. A resource route maps a number of related requests to actions in a single controller.

10. **Go to todo/db/migrate** to see the migrations create with timestamp. This got created when we did scaffold.



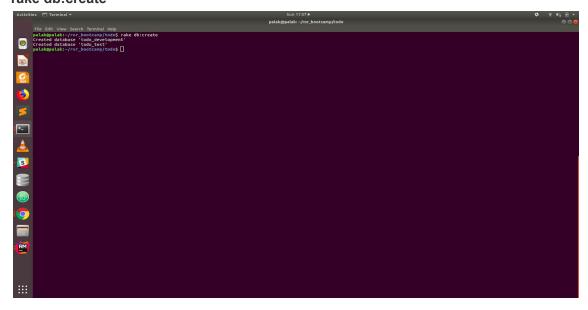
# 11. Go to todo/Gemfile

Here you can see all the gems currently installed. In case you want to add some new gems add it here and do bundle install to install them.



12. You need to create the mysql database in your local system. For that go to the terminal **cd todo** 

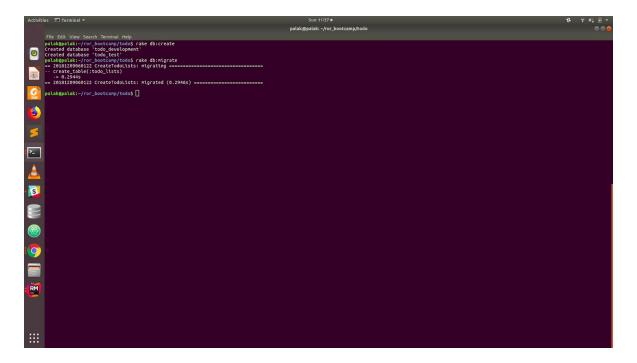
#### rake db:create



13. You need to make the tables actually appear in your local database. The migration created in the application won't reflect in your database until you run the following command

# cd todo

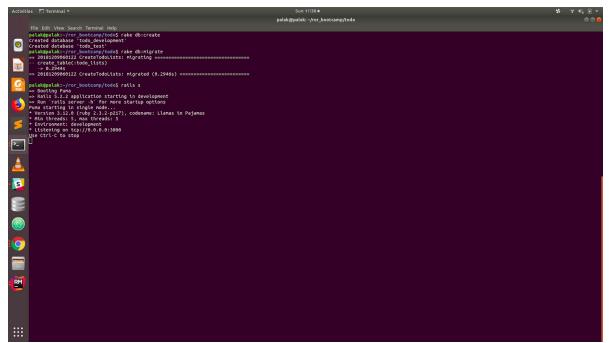
rake db:migrate



14. To see your application running

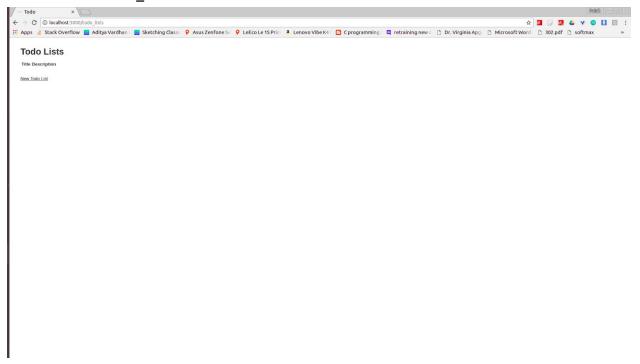
#### cd todo

#### Rails server or rails s



## 15. Open browser and go to

#### localhost:3000/todo\_lists



#### 14. You can also visit

### http://localhost:3000/rails/info/routes

This will give you information about all the routes defined under the resources section which we saw in routes.rb file and the corresponding url and controller as well as the action of that controller associated with a particular url.