

Step

1. new Rails application
rails new dog-app -T

2. cd dog-app/
directory to access

3. Generate the model
rails g model dog name motto

This creates 2 files: app/models/dog.rb db/migrate/[date_time]_create_dogs.rb The dog table in our database will have 2 fields: name and motto.

4. Generate the controller
rails g controller dogs index show new edit

5. The config/routes.rb file also gets automatically updated:

5. Update the config/routes.rb

```
Rails.application.routes.draw do
  resources :dogs
end
```

6. migrate our data

```
class CreateDogs <
  ActiveRecord::Migration[5.2]
  def change
    create_table :dogs do |t|
      t.string :name
      t.string :motto

      t.timestamps
    end
  end
end
```

6. migrate our data (cont)

```
end
end
rake db:migrate
```

7. Update the db/migrate/seeds.rb

```
Dog.create(name: 'Nala', motto: 'Born to be wild')
Dog.create(name: 'Alex', motto: 'Calm as can be')
Dog.create(name: 'Leroy', motto: 'Life of the pawty')
Dog.create(name: 'Belle', motto: 'Miss Independent')
```

```
rake db:seed
```

(1).config/routes.rb

```
1. config/routes.rb
Rails.application.routes.draw do
  resources :barangs
end
```

(2)db/migrate/20190510051736_create_barangs.rb

```
2. db/migrate/20190510051736_create_barangs.rb
class CreateBarangs < ActiveRecord::Migration[5.2]
  def change
    create_table :barangs do |t|
      t.string :sku
      t.string :nama
      t.integer :kuantitas
      t.integer :hargaBeli
      t.integer :hargaJual
      t.integer :profit
    end
  end
end
```

(2)db/migrate/20190510051736_create_barangs.rb (cont)

```
      t.timestamps
    end
  end
end
```

(3).db/seeds.rb

```
3. db/seeds.rb
Barang.create(sku:'AIR001', nama: 'Air mineral Aqui', kuantitas:10, hargaBeli: 3000, hargaJual: 6000, profit: 3000)
Barang.create(sku:'SOF001', nama: 'Choca Chola', kuantitas:20, hargaBeli: 5000, hargaJual: 4500, profit: -500)
Barang.create(sku:'SNK001', nama: 'Cheetah Toh', kuantitas:15, hargaBeli: 4000, hargaJual: 5000, profit:1000)
```

8. added to your database

In order to check if the dogs have been added to your database, run:
rails console or rails c
Type in Dog.all and you should see that the 4 dogs have been added.
FYI. Run rails routes or go to localhost:3000/rails/info/routes to see all routes your application is configured to:



By amihapsari

Published 22nd May, 2019.
Last updated 22nd May, 2019.
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9. Read

Goal: List all dogs

Controller – app/controllers/dogs_controller.rb, index method

```
def index
  @dogs = Dog.all
end
```

Index – views/dogs/index.html.erb

```
<ul>
  <% @dogs.each do |dog| %>
    <li><%= link_to dog.name, dog_path(dog) %></li>
  <% end %>
</ul>
```

10. Read(Show details of specific dog)

Goal: Show details of specific dog

Controller – app/controllers/dogs_controller.rb, show method

```
def show
  @dog = Dog.find(params[:id])
end
```

Show – views/dogs/show.html.erb

```
<h1><%= @dog.name %></h1>
<h4>"<%= @dog.motto %>"</h4>
```

(4).app/controllers/barangs_controller.rb

4.app/controllers/barangs_controller.rb

```
class BarangsController < ApplicationController
  def index
    @barangs = Barang.all
  end
end
```

(4).app/controllers/barangs_controller.rb (cont)

```
end
def show
  @barangs = Barang.find(params[:id])
end
def new
  @barangs = Barang.new
  @hasilProfit = MathCalculator.send(params[:operation], *[params[:a], params[:b]])
  render :index
end
def create
  @barang = Barang.create(barang_params)
  redirect_to barangs_path
end
def barang_params
  params.require(:barang).permit(:sku, :nama, :kuantitas, :hargaBeli, :hargaJual, :profit)
end
def edit
  @barang = Barang.find(params[:id])
end
def destroy
  @barang = Barang.find(params[:id])
  @barang.destroy
  redirect_to barangs_path
end
def update
  @barang = Barang.find(params[:id])
end
```

(4).app/controllers/barangs_controller.rb (cont)

```
@barang.update(barang_params)
redirect_to barangs_path
end
def get_profit
  count_profit = ProfitCalculator.new params[:operation]
  @result = profit_calculator.calculate
end
end
```

(5)app/views/barangs/index.html.erb

5.app/views/barangs/index.html.erb

```
<style>
  table{
    margin-left: auto;
    margin-right: auto;
  }
  .tabel2 {
    border-collapse: collapse;
  }
  .tabel2, tr, th, td {
    border: 1px solid black;
  }
</style>
<h1>Daftar Barang</h1>
<table class='tabel2'>
<thead>
<tr>
```



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Published 22nd May, 2019.
Last updated 22nd May, 2019.
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(5)app/views/barangs/index.html.erb (cont)

```
<th>SKU</th>
<th>Nama</th>
<th>Kuantitas </th>
<th>Harga beli</th>
<th>Harga jual</th>
<th>Profit per item</th>
<th colspan="2">Action</th>
</tr>
</thead>
<tbody>
<% @barangs.each do |barang| %>
<tr>
<td scope="row"><%= barang.sku %></td>
<td><%= barang.nama%></td>
<td><%= barang.kuantitas %>
</td>
<td><%= barang.hargaBeli %>
</td>
<td><%= barang.hargaJual %>
</td>%
<td>
  <% unless @hasilProfit.nil? %>
    <%= @hasilProfit %>
  <% end %>
</td>
<td><%= button_to 'Edit',
edit_barang_path(barang),
method: 'get'%></td>
<td><%= button_to 'Remove',
barang_path(barang), method:
'delete', data: { confirm:
'Anda Yakin?' } %></td>
</tr>
```

(5)app/views/barangs/index.html.erb (cont)

```
<% end %>
</tbody>
</table>
<%= link_to "Add a New Barang",
new_barang_path %>
```

(6).app/views/barangs/edit.html.erb*

```
6.app/views/barangs/edit.html.erb*
<h1>Edit Barang</h1>
<h3>Update Barang Details</h3>
<%= form_with model: @barang do
|form| %>
  <%= form.text_field :sku,
placeholder: "sku" %>
  <%= form.text_field :nama,
placeholder: "nama" %>
  <%= form.number_field :kuant-
itas, placeholder: "kuantitas" %>
  <%= form.number_field :harga-
Beli, placeholder: "hargaBeli" %>
  <%= form.number_field :harga-
Jual, placeholder: "hargaJual" %>
  <%= form.number_field :profit,
placeholder: "profit" %>
  <%= form.submit %>
<% end %>
```

11. Create(Create a new dog)

Goal: Create a new dog

Controller – app/controllers/-dogs_controller.rb, new and create methods

```
def new
```

11. Create(Create a new dog) (cont)

```
@dog = Dog.new
end
def create
  dog = Dog.create(dog_params)
  redirect_to dogs_path
end
private
def dog_params
  params.require(:dog).per-
mit(:name, :motto)
end
New – views/dogs/new.html.erb
<h3>Create a Dog</h3>
<%= form_with model: @dog do
|form| %>
  <%= form.text_field :name,
placeholder: "name" %>
  <%= form.text_field :motto,
placeholder: "motto" %>
  <%= form.submit %>
<% end %>
```

12.Update

Goal Update details for specific dog

Controller – app/controllers/-dogs_controller.rb, edit and update methods

```
def edit
  @dog = Dog.find(params-
[:id])
end
def update
  @dog = Dog.find(params-
[:id])
  @dog.update(dog_params)
  redirect_to dog_path(@dog)
```



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Published 22nd May, 2019.

Last updated 22nd May, 2019.

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12. Update (cont)

```
end
private
def dog_params
  params.require(:dog).permit-
(:name, :motto)
end
Edit - views/dogs/edit.html.erb
<h3>Update Dog Details</h3>
<%= form_with model: @dog do
|form| %>
  <%= form.text_field :name,
placeholder: "name" %>
  <%= form.text_field :motto,
placeholder: "motto" %>
  <%= form.submit %>
<% end %>
```

13. Delete(Remove a dog from the database)

Goal: Remove a dog from the database

Controller - app/controllers/dogs_controller.rb, destroy method

```
def destroy
  @dog = Dog.find(params[:id])
  @dog.destroy
  redirect_to dogs_path
end
```

Show - views/dogs/show.html.erb

```
<%= link_to 'Remove', @dog,
method: :delete, data: {
confirm: 'Are you sure?' } %>
```

(7).app/views/barangs/new.html.erb

```
7.app/views/barangs/new.html.erb
<h1>Buat Data Barang</h1>
<h3>Create Barang</h3>
<%= form_with model: @barangs do
|form| %>
  <%= form.text_field :sku,
placeholder: "sku" %>
  <%= form.text_field :nama,
placeholder: "nama" %>
  <%= form.number_field :kuan-
tita, placeholder: "kuantitas"
%>
  <%= form.number_field :harga-
Beli, placeholder: "hargaBeli"
%>
  <%= form.number_field :harga-
Jual, placeholder: "hargaJual"
%>
  <%= form.number_field :profit,
placeholder: "profit" %>
  <%= form.submit %>
<% end %>
```

(8).app/views/barangs/show.html.erb

```
8.app/views/barangs/show.html.erb
<h1>Lihat Barang</h1>
<h1><%= @barangs.sku %></h1>
<h4><%= @barangs.nama %></h4>
<h4><%= @barangs.kuantitas %>
</h4>
<h4><%= @barangs.hargaBeli %>
</h4>
<h4><%= @barangs.hargaJual %>
</h4>
<h4><%= @barangs.profit %></h4>
```

(9).lib/math_calculator.rb

```
9.lib/math_calculator.rb
class MathCalculator
  def calculateProfit(a, b)
    # whatever you need to do
    here
    a.to_i - b.to_i
  end
end
```



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Published 22nd May, 2019.

Last updated 22nd May, 2019.

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