

### Step

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

2. cd dog-app/  
directory to access

3. rails g model dog name motto  
Generate the model

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. rails g controller dogs index  
Generate the controller  
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 Aquil',
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  
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:

### 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 BarangController < ApplicationController
  def index
    @barangs = Barang.all
```

### (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 barang_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 barang_path
end
def update
  @barang = Barang.find(params[:id])
```

### (4).app/controllers/barangs\_controller.rb (cont)

```
> @barang.update(barang_params)
  redirect_to barang_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= 'tabel 2'>
<thead>
<tr>
```

### (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 Detail s</h3>
<%= form_with model: @barang do
|form| %>
  <%= form.t ext _field :sku,
placeh older: " sku " %>
  <%= form.t ext _field :nama,
placeh older: " nam a" %>
  <%= form.n umb er _field
:kuan ti tas, placeh older: " -
kua nti tas " %>
  <%= form.n umb er _field
:harga Beli, placeh older: " -
har gaB eli " %>
  <%= form.n umb er _field
:harga Jual, placeh older: " -
har gaJ ual " %>
  <%= form.n umb er _field
:profit, placeh older: " pro -
fit " %>
  <%= form.s ubmit %>
<% end %>
```

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

**Goal:** Create a new dog

**Controller** – app /co ntr oll - ers /do gs\_ con tro lle r.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).permit(: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 /co ntr oll - ers /do gs\_ con tro lle r.rb, edit and update methods

```
def edit
  @dog = Dog.fi nd( par -
ams [:id])
end
def update
  @dog = Dog.fi nd( par -
ams [:id])
  @do g.u pda te( dog -
_pa rams)
  red ire ct_to dog_pa -
th( @dog)
```



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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/ dog\_s\_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: @barang do
|form| %>
  <%= form.text_field :sku,
placeholder: " sku " %>
  <%= form.text_field :nama,
placeholder: " nam a" %>
  <%= form.number_field
:kuantitas, placeholder: " -
kuantitas " %>
  <%= form.number_field
:hargaBeli, placeholder: " -
hargaBeli " %>
  <%= form.number_field
:hargaJual, placeholder: " -
hargaJual " %>
  <%= form.number_field
:profit, placeholder: " pro -
fit " %>
  <%= form.submit %>
<% end %>
```

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

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