

### 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 Aquil', kuantitas: 10, hargaBeli: 3000, hargaJual: 6000, profit: 3000)
Barang.create(sku: 'SOF001', nama: 'Chocola', 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:



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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
```

### (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])
```

### (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 :kuantitas, placeholder: "kuantitas" %>
  <%= form.number_field :hargaBeli, placeholder: "hargaBeli" %>
  <%= form.number_field :hargaJual, 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).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/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-
titas, 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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