

Create the infrastructure for your rails app by typing:

```
rails new cars_app --database=postgresql
```

```
cd cars_app
bundle install
```

Database creation and population:

The first thing we need to do is create a database of cars - Make, Model, and Year. To do this, type this at a command line:

```
rake db:create
```

(This will create an empty database)

ROUTER:

To get the “ROUTER” portion of the MVC working:

Open the file **config/routes.rb** and add:

```
get 'cars', to: 'cars#index'
```

AFTER the *Rails.application.routes.draw do* line

CONTROLLER:

First, you need to create a file in app/controllers to hold the Cars class:

```
touch app/controllers/cars_controller.rb
```

Inside the cars_controller.rb file, type:

```
class CarsController < ApplicationController

  # The index action (or method). This will be invoked to view all the products
  def index
    # This pulls the cars from the database and puts them into the @cars variable
    @cars = Car.all
  end

end
```

This will create the **CONTROLLER**

Then you will need to create the **VIEW**. This is the file that translates Ruby language and sends it back to the client’s browser in HTML format.

```
mkdir app/views/cars
touch app/views/cars/index.html.erb
```

Then, we need to create the **MODEL**, which accesses the data in the cars table

```
touch apps/models/car.rb
```

(NOTE: This is a singular instance of cars)

Then, in the **car.rb** file, type:

```
class Car < ActiveRecord::Base
end
```

Once we have created the Car class in apps/models/car.db, we can populate the database with some car instances:

First, we need to create a Rails migration for cars:

```
rails generate migration CreateCars make model year
rake db:migrate
```

Then, we need to add some records into the database:

In **db/seeds.db**:

```
Car.create(make: 'Honda', model: 'Accord', year: '2014')
Car.create(make: 'Mazda', model: 'Miata', year: '1999')
Car.create(make: 'Volkswagen', model: 'Passat', year: '2002')
Car.create(make: 'Toyota', model: 'Sienna', year: '2012')
```

To create these records in the database:

```
rake db:seed
```

Change the **VIEW** to show the list of cars in ERB format:

Then, in the **app/views/cars/index.html.erb** file, type:

```
<h2>Cars</h2>
<ul>
  <% @cars.each do |car| %>
    <li>Make: <%= car.make %>Model: <%= car.model %>Year: <%= car.year %></li>
  <% end %>
</ul>
```

Launch rails:

```
rails server
```