

CS169 Week 4 Section Worksheet

Let's make a Rails app from the bottom up!

Build our app with Rails:

`rails new app_name`

`rails new todo_app`

`rails generate scaffold model attribute:type`

`rails generate scaffold todo description:string`

- What does this make for us?

Create the database for our app

`bundle exec rake db:migrate`

- Without this, no changes will be made to our database schema

Insert some records in the database

Open `db/seeds.rb` and insert the two records with the following content into the database (use *Todo.create*):

`"start the cs169 discussion section"`

`"release the third homework"`

Use the following command to insert the data into database

`bundle exec rake db:seed`

Check if the records are inserted into the database (use `rails console`)

Start the server

`rails server -p $PORT -b $IP`

- Use `rake routes` to see what was created by the scaffold command
- Navigate to some of the routes to see what we have without writing a single line of code!

Extend the app

`rails generate migration AddAttributeToModel attribute:type`

`rails generate migration AddDueDateToTodo due_date:datetime`

- Note the format of command - this will generate the entire migration file automatically if we follow convention
- Make sure you run `rake db:migrate` again!

Create new route in the app

- Add a route in config/routes.rb and map it to a controller action
`get '/hello', to: 'todos#hello'`
- Add a view - what should it be called according to convention?
`hello.html.erb`
`<h1>Hello!</h1>`
- Add the corresponding method to a controller - do we need anything else in our method?

```
def hello
  respond_to do |format|
    format.html { render :hello }
    format.json { render json: "hello world!" }
  end
end
```

Group Tasks

- Add a new boolean field with name “done” for each Todo record (default value: false), user should be able to view and edit the new attribute.
- Route `/todo/create` to the page that creates a new Todo item.
- Route `todos#index` as the homepage for this app.

Optional

Commands to reverse back to a previous version of the DB:

```
rake db:migrate VERSION=0
```

Use the following command to show all migrations

```
rake db:migrate:status
```

Status	Migration ID	Migration Name
up	20160211013318	Create todos
up	20160211025643	Add done to todos
up	20160211043246	Add due date to todo

Now rollback to a previous version:

```
rake db:migrate VERSION=20160211025643
```