RUBY ON RAILS

NOTES

SETUP FOR RUBY ON RAILS:-

1. Text-Editor :- we will use VS CODE and install its extensions , I already done and then for emmet I do changes in setting.json and in included languages, for ruby.
2. To install Ruby :- first check that u have ruby in ur PC or not , for this open powershell window and type “rails -v” if it not in ur PC then download it from rubyinstaller.org
3. Install yarn or Node Js :- NodeJS is a JavaScript runtime and Rails has this as a dependency in order to work correctly. Yarn is a package manager which Rails (6 and above) uses to manage some assets.

To see if you have node already installed, pull up a PowerShell window and type in node --version followed by enter.

If you get an error message like above, then you will need to install node.

To install NodeJS, go to [nodejs.org](https://nodejs.org/en/) and click on the Download 'Recommended for most users' button.

Once installed, re-start your PowerShell window (close and open a new one) and if you type in the node version command again, you should see a version installed like below. You can also check for npm --version which is a package manager that comes with node by default.

Yarn

You can check for an existing installation of Yarn by checking the yarn --version in your PowerShell window.

To install yarn for Windows, head over to the yarn (classic) installation page: <https://classic.yarnpkg.com/en/docs/install#windows-stable>

Once installed, re-start your PowerShell window and check for the yarn version like below.

1. Install Ruby on Rails 6 and create new Rails application

We are now ready to install Rails. First we need to learn what a gem is. Ruby, which is the language behind Rails, has code packages and libraries packaged as gems. These packages are hosted at the [rubygems.org](https://rubygems.org/) site. Each gem performs some task (or tasks) that we can perform simply by downloading the gem and using it, instead of having to re-write all the code from scratch ourselves. Rails itself is a gem, you can check it out here: <https://rubygems.org/gems/rails>

Let's start working with gems in the PowerShell prompt by checking for the bundler gem first. Bundler is a gem that was installed in our system during the Ruby installation process. Bundler lets us install gems and use them in our Rails applications. Let's check for the bundler gem by typing in the following command followed by enter

gem list bundler

We can see that bundler is already installed. Alternatively, you can install bundler (if you don't already have it) by using gem install bundler command as shown below:

gem install bundler

Or, you can update the already installed bundler gem to its latest version using the gem update bundler command

gem update bundler

Now that we know about gems, let's download and install the sqlite3 gem. Sqlite is a lightweight database which Rails applications use by default during development. The ruby packaged version of this is called the sqlite3 gem. You can download this gem by using the command (gem install sqlite3).

Let's get some more practice and install the webpacker gem. Webpack is a JavaScript bundler which Rails 6 uses to manage its JavaScript assets. (If you don't understand what any of this means at this time, it's completely ok, we'll see what each of these things are during development). The webpacker gem makes webpack available for use for our Rails applications.

To install the webpacker gem, issue the gem install webpacker

Using the process we practiced above, let's use the gem install command to install the latest version of Rails as shown below followed by enter.

gem install rails –-no-document

Now that we have rails installed, let's use it to create a new rails application. You can do it by using the following command structure

rails new name\_of\_app

So, if we wanted to create an application called test\_app, you would use the command below followed by enter

rails new test\_app

This will create a new rails application in a directory called test\_app within the directory you are in. It will take a few minutes to create the application, including running webpacker installation steps for the application, and will end with a screen

Once complete, if you type ls and hit enter you'll see a test\_app directory showing up among your list of directories. Navigate to this directory by issuing the following command (or use the name of the app that you have used if you didn't name it test\_app).

cd test\_app

You should now be in the test\_app folder. This is your newly created rails application.

As a last step, we will run what is known as the rails server to verify that the application got created correctly and preview it from a browser window.

To do this, let's start the rails server (make sure you are in the test\_app directory) by issuing the following command followed by enter:

rails server or we can type rails s only

Once the server is up and running (like above). Open a new browser window to preview the running application. You can navigate to the URL of localhost:3000

Now as a last step, we will need to shut down the rails server that is running. To do this, go back to the PowerShell window where the server is running and press Ctrl C to shut it down (that's capital C, so might require pressing down the control button, shift button and then C). It'll prompt you to terminate batch job, at which point you should type in Y followed by enter.

Congratulations again, you are now ready to work with Rails in your Windows machine!