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# SQL

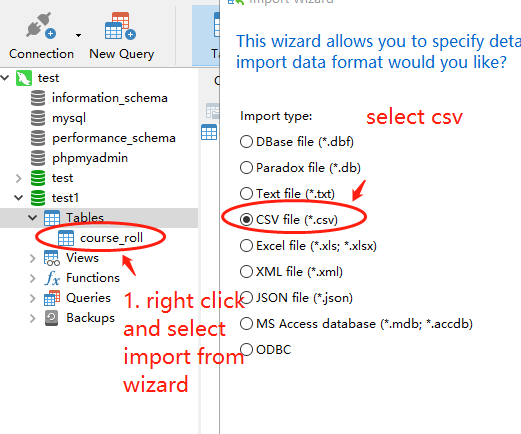
* 1. Prerequisite:

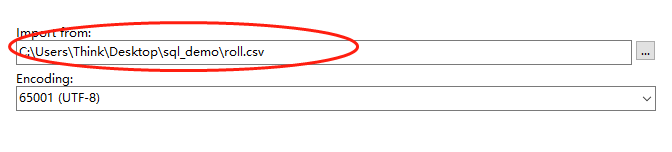
install xampp: <https://www.apachefriends.org/index.html>

Install Navicat free trail: <https://www.navicat.com/>

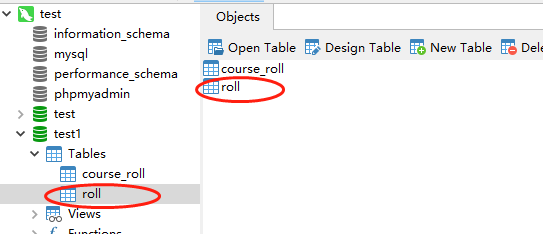
Data sets: <https://github.com/onebit256/sql_demo>

* 1. import data sets



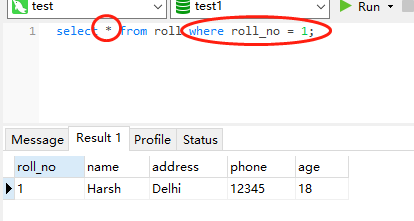


Select the right path, and keep clicking next til the end, then you will see the imported data base



* 1. insert, select, delete, joins

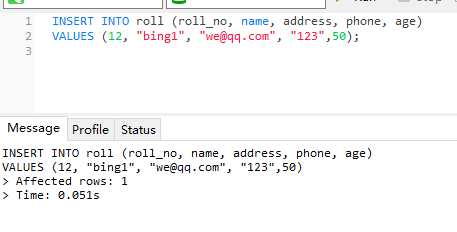
Select

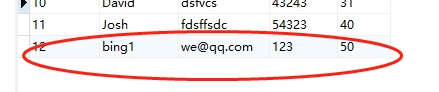


- \* means display all fields in the selected table

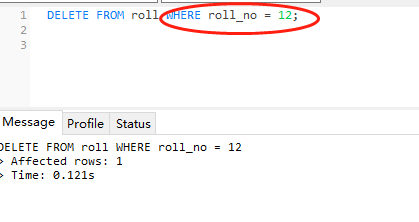
- “Where” is the condition to filter the records

Insert

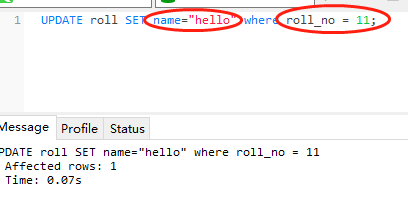


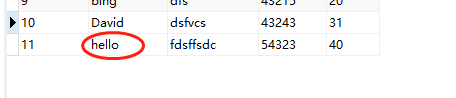


Delete

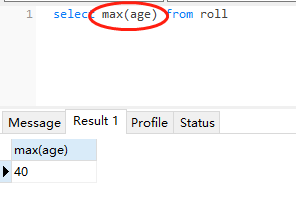


Update

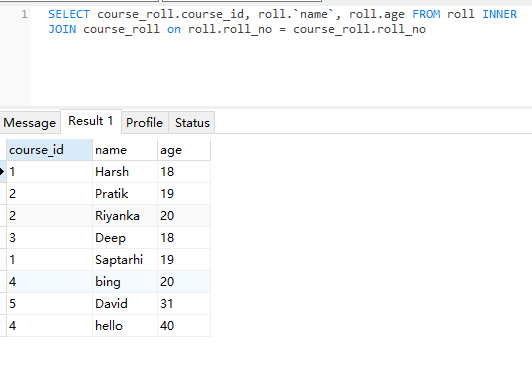




Max



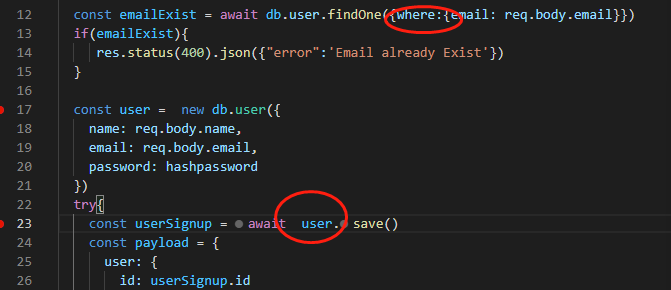
Inner join



# Node & Express

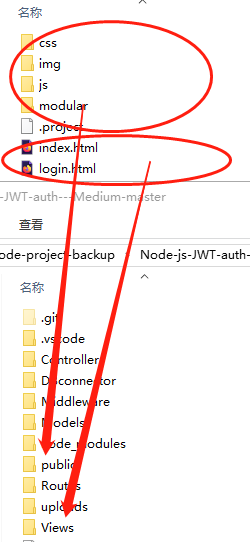
Code: <https://github.com/onebit256/batch2-lab4-node-without-views>

## 2.1 Controller’s Problems

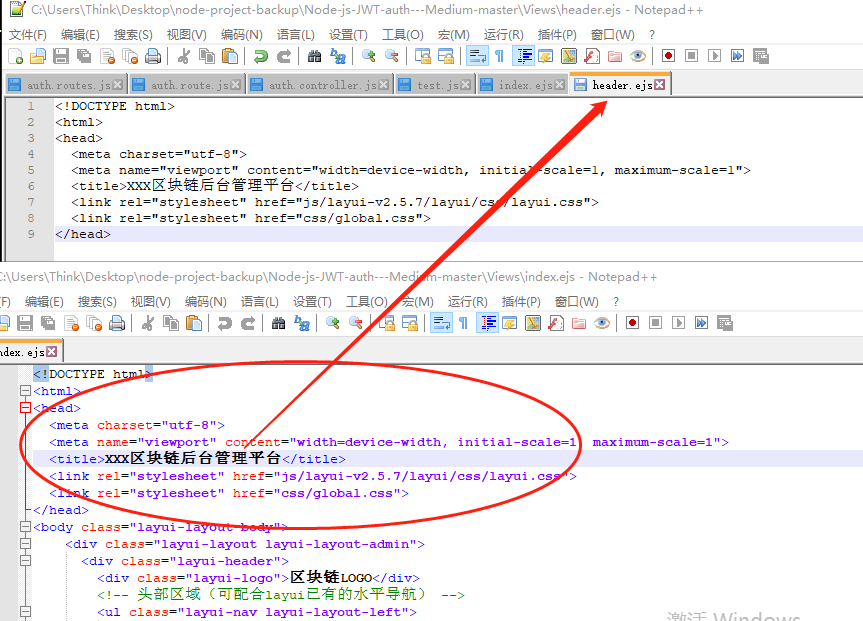


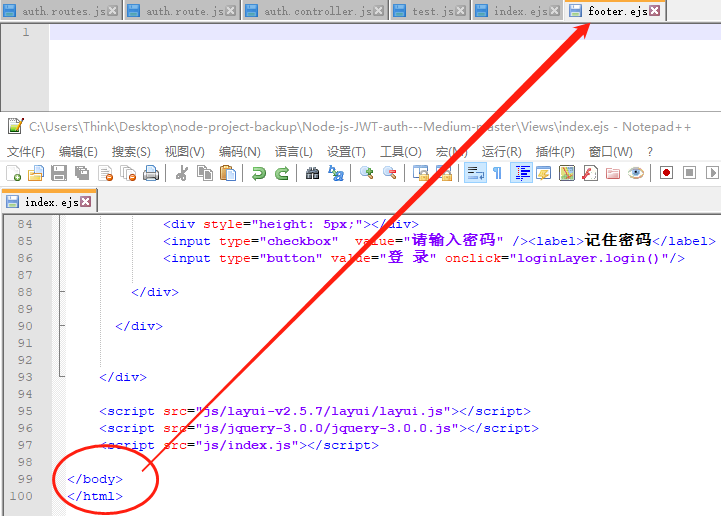
## 2.2 Add Viewer

1. Move css js to public folder, and change html to ejs and move them to the folder

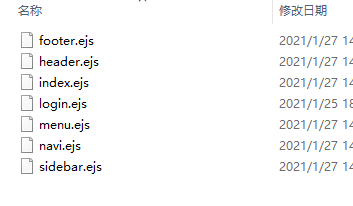


2 split html into parts

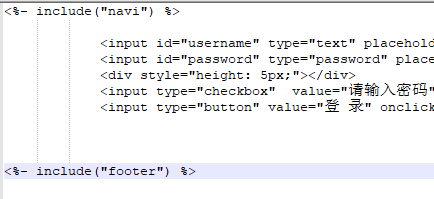




Eventually:



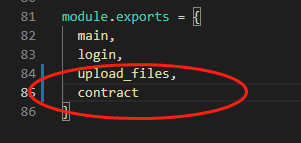
Index.ejs

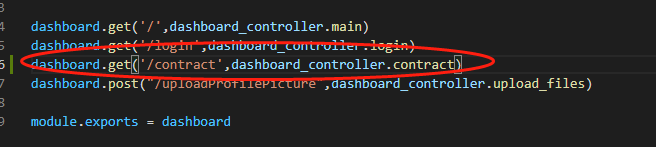


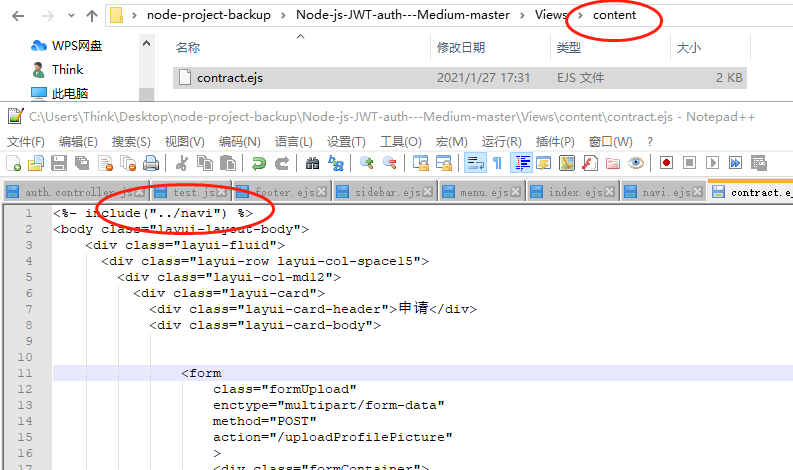
## 2.3 link views to controller

1. Add controller to apply\_for

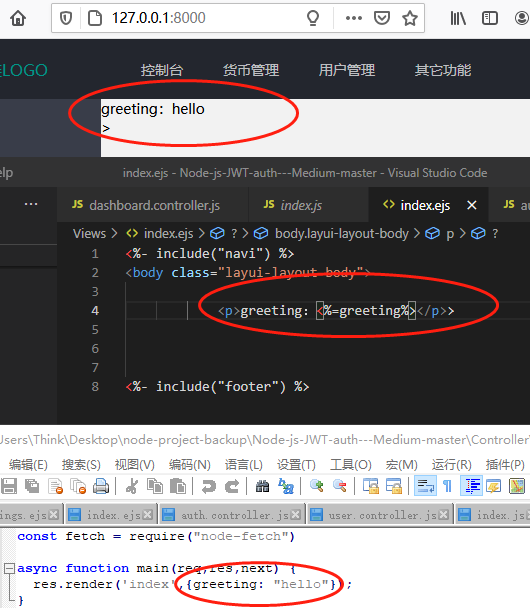






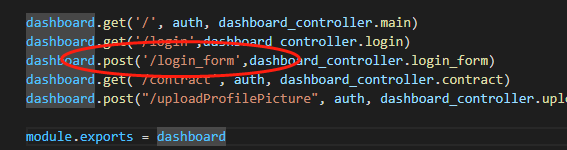


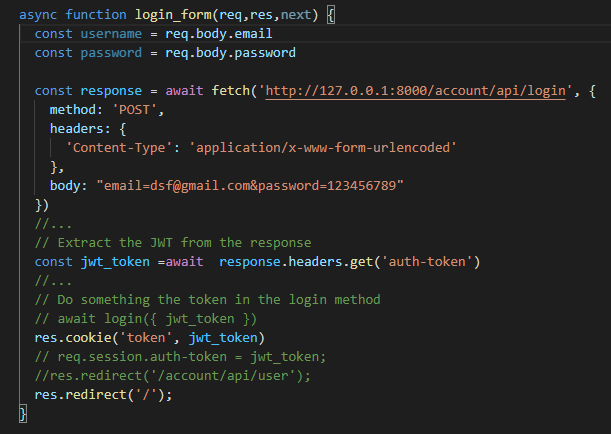
2 pass data from controller to the views



## 2.4 test form data from the login page

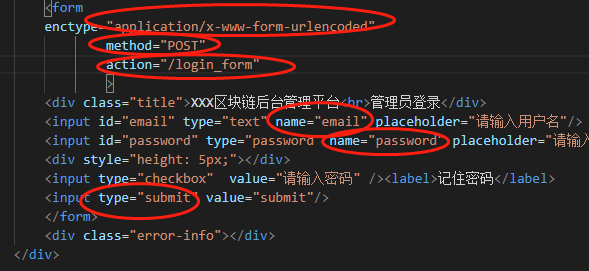
1 create a route to handle the form data, and create its corresponding controller



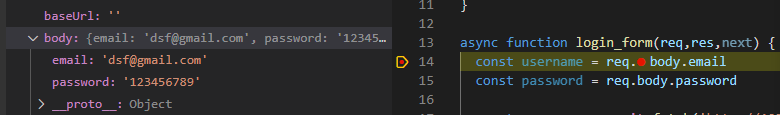


1. Create form

Set form data to www-form-urlencode, set names and set type to be submit, set action to be the route

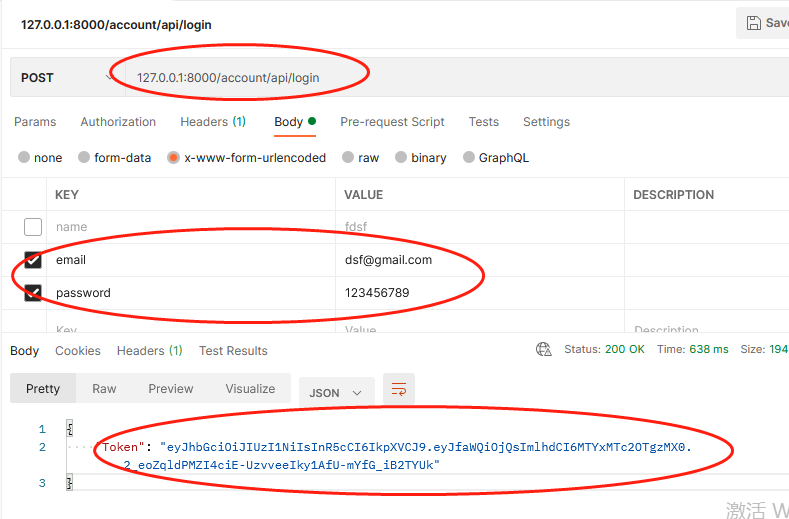


1. Test

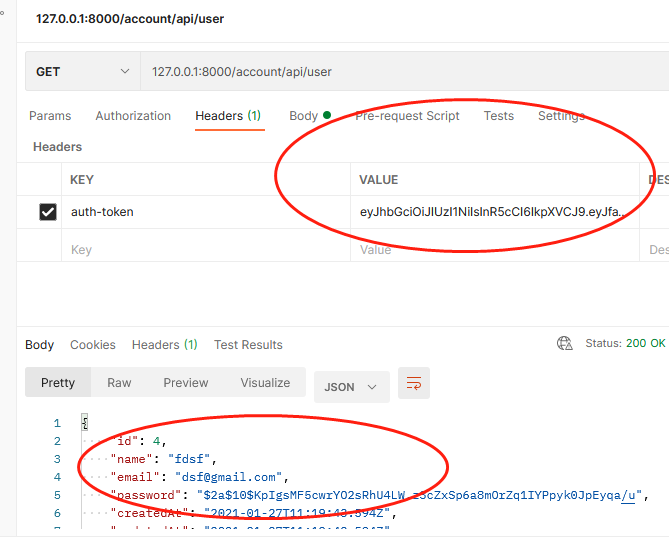


## 2.5 test JWT token with postman

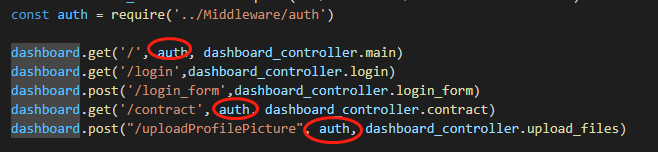
1. Get token



1. Add this token to get header

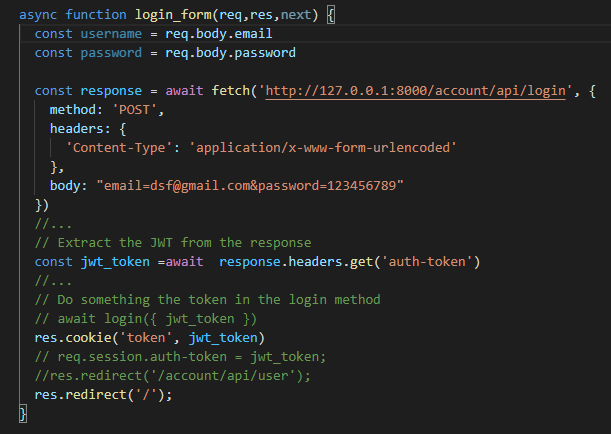


## 2.6 add auth to all routes except login page



## 2.7 connect login frontpage with api

1 add login logic



2 use cookie to store token



1. Test

It will return user info in json format on the browser

## 2.8 add fileupload function: routes and controller

## 2.9 Node upload to IPFS