**Text Instructions: Module 8**

GitHub Link: <https://github.com/Apollo-Level2-Web-Dev/Level2-Batch4-PH-University-Server/tree/mastering-mongoose>

Installation: <https://blog.logrocket.com/linting-typescript-eslint-prettier>

**8-1 Introduction to mongoose**

Create folder : first-project > cmd > code . > npm init -y

Google > express js > getting started > npm install express >

typescript (download install typescript)> npm install typescript --save-dev

mongoose > getting started > npm install mongoose --save

cors npm > npm i cors

dotenv > npm i dotenv

tsc –init

NB :

**Adjust Execution Policy in PowerShell**

1. **Open PowerShell as Administrator:**
   * Search for **PowerShell** in the Start menu.
   * Right-click on it and select **Run as Administrator**.
2. **Change the Execution Policy:** Run the following command to allow scripts to run:

powershell

command:

Set-ExecutionPolicy -Scope CurrentUser -ExecutionPolicy RemoteSigned

* + **Explanation:**
    - CurrentUser: Changes the policy for the current user only.
    - RemoteSigned: Allows locally created scripts to run, but requires downloaded scripts to be signed.

1. **Confirm the Change:** If prompted, press **Y** and then **Enter**.

.env :

PORT=5000

DATABASE\_URL=mongodb+srv://amin-um:admin12345@cluster0.uuibjb3.mongodb.net/first-project?retryWrites=true&w=majority&appName=Cluster0

Tsconfig > modify “rootdir”, ”outdir”

Google > express js > getting started > hello world > Copy the code (first)

package.json > Debug > “build”: “tsc”,

terminal > npm run build [create ”dist” folder]

node ./dist/app.js

npm i --save-dev @types/node

ইন্ডাস্ট্রি তে এখনো .eslintrc.json এবং .eslintignore এই প্যাটার্ন ব্যবহার হতেই দেখা যায়, তবে .eslint.config.mjs তুলনামূলক নতুন যা সামনে ইন্ডাস্ট্রিতে এডাপ্ট হতে পারে   
  
ব্লগঃ  
  
<https://dev.to/shafayat/-express-typescript-eslint-prettiersetup-5fhg>

ভিডিওঃ <https://www.facebook.com/100004778526351/vide>

**8-3 Installing eslint, refactor code, fix errors using command**

npm i --save-dev @types/express

npm i --save-dev @types/cors

google > typescript eslint prettier setup > tsconfig.json > copy two lines :

"include": ["src"], // which files to compile

"exclude": ["node\_modules"], // which files to skip

goto vscode > tsconfig.json > paste them

now again go to blog-doc > eslint > copy the code :

npm install eslint @typescript-eslint/parser @typescript-eslint/eslint-plugin --save-dev

terminal :

npx eslint --init

docs [ for setup ]:<https://dev.to/shafayat/-express-typescript-eslint-prettiersetup-5fhg>

**8-4 Install prettier,ts-node-dev,fix formatting issues**

Install : npm install --save-dev eslint-config-prettier

npm run prettier fix

mongodb atlas > network access > set > confirm

terminal : node ./dist/server.js

**8-5 Software design pattern , mvc vs modular, create an interface**