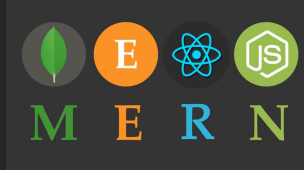




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MERN Stack Application

VM Training

Software Requirements

- **Visual Studio Code Editor**
➤ <https://code.visualstudio.com/download>
- **NodeJS 14+**
➤ <https://nodejs.org/en/download/>
- **MongoDB Atlas OR MLab (Cloud Databases)**
➤ <https://www.mongodb.com/cloud/atlas>
➤ <https://mlab.com/>
- OR
- **MongoDB Community Edition (Local Database)**
➤ <https://docs.mongodb.com/manual/tutorial/install-mongodb-on-windows/>



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MongoDB Installation

- Follow the below link:
- <https://docs.mongodb.com/manual/installation/>
- 1.Download MongoDB for Windows :
- https://www.mongodb.com/try/download/community?tck=docs_server
- 2.Install MongoDB
- 3.Create database directory
- 4.Start/Stop MongoDB Server
- 5.Connect to MongoDB



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Project Setup Backend

- **Backend: (MongoDB)**
- **Create a new nodejs project:**
- Create a folder (**mern-stack-app**) and **cd mern-stack-app** and **npm init -y**
- **npm i express, cors, nodemon**
- **Create an express server**
- **Database setup and connect to nodejs**
- **Create REST APIs and Authentication with JWT**
- **Setup Email Service and Email Templates**



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Database Setup



- Create mongodb cluster/database.

Database: **mern-stack-database**

Collections/Schemas:

1) **users** – name, **email**, **password**, **profilepic**, **role**, **verified**, **refreshToken**, **expireToken**, **activestatus**

2) **blacklist** – **token**, **email**

3) **courses** – **coursename**, **description**, **technologies**

mongo DB

Note: createdAt and updatedAt are common for any table.



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MongoDB Connection in NodeJS

- **npm install mongoose**
- Import mongoose and connect.
- ```
mongoose.connect('connection_path',(err)=>{
 if(!error) connection success
 else connection failed
})
```



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## Routing

- Create REST APIs:
- /signup (POST)
- /signin (POST)
- /forgetpassword (POST)
- /resetpassword (PUT)
- /changepassword (PUT)
- /getUser/:id (GET)
- /editUser/:id (PUT)
- /deleteUser/:id (PUT)
- /logout (POST)



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## Thank You



Check out other courses



<https://vmtraining.netlify.app>



VWatch



IMplement



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VM Online Training