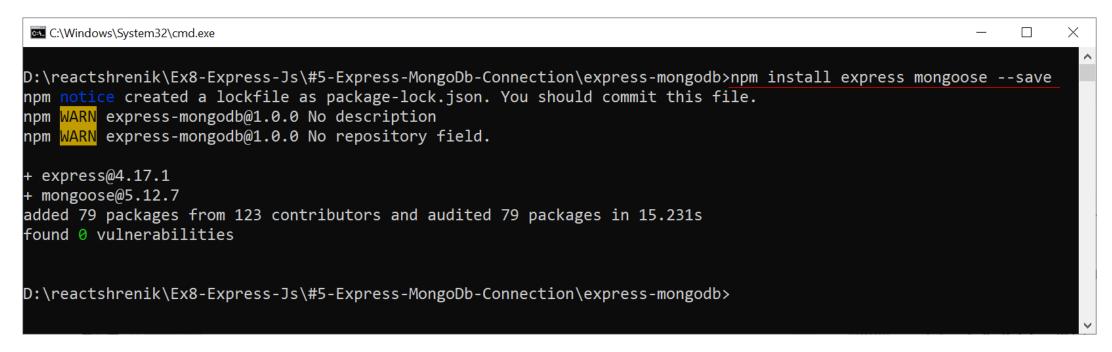
How to connect Mongo DB in Express Js?

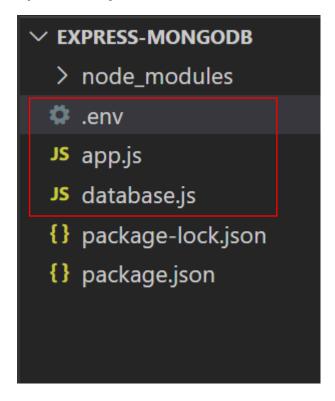
Create new Project

```
C:\Windows\System32\cmd.exe
D:\reactshrenik\Ex8-Express-Js\#5-Express-MongoDb-Connection>mkdir express-mongodb
D:\reactshrenik\Ex8-Express-Js\#5-Express-MongoDb-Connection>cd express-mongodb
D:\reactshrenik\Ex8-Express-Js\#5-Express-MongoDb-Connection\express-mongodb>npm init --yes
Wrote to D:\reactshrenik\Ex8-Express-Js\#5-Express-MongoDb-Connection\express-mongodb\package.json:
  "name": "express-mongodb",
  "version": "1.0.0",
  "description": "",
  "main": "index.js",
  "scripts": {
    "test": "echo \"Error: no test specified\" && exit 1"
  },
  "keywords": [],
  "author": "",
  "license": "ISC"
D:\reactshrenik\Ex8-Express-Js\#5-Express-MongoDb-Connection\express-mongodb>
```

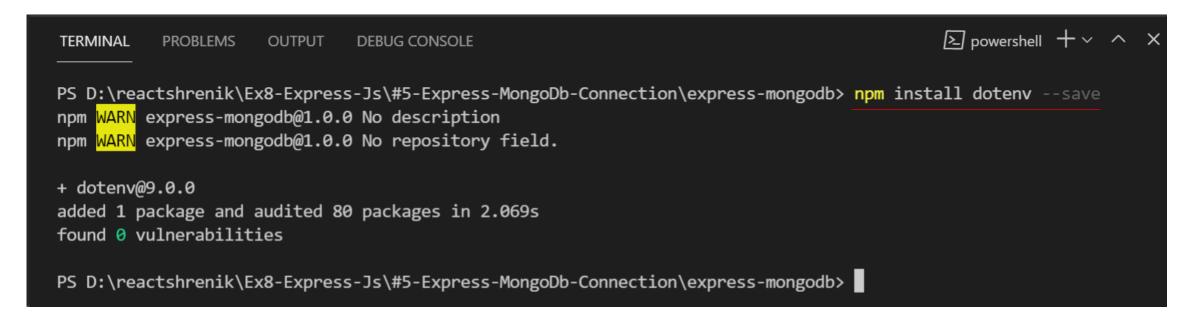
Install "express" and "mongoose"



Open Project and create ".env", "app.js" and "database.js" file



Install "dotenv" module to read environmental settings

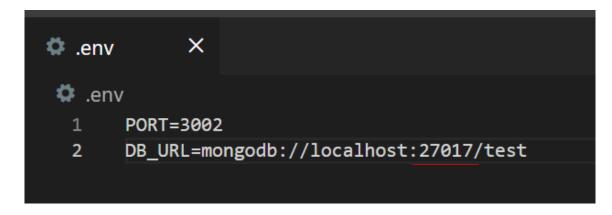


Start mongodb Server

```
TERMINAL PROBLEMS OUTPUT DEBUG CONSOLE

PS D:\reactshrenik\Ex8-Express-Js\#5-Express-MongoDb-Connection\express-mongodb> mongod
2021-05-08T09:09:28.368+0530 I CONTROL [main] Automatically disabling TLS 1.0, to force-enable TLS 1.0 specif
y --sslDisabledProtocols 'none'
2021-05-08T09:09:28.372+0530 I CONTROL [initandlisten] MongoDB starting : pid=2976 port=27017 dbpath=D:\data\
db\ 64-bit host=ExamServer
```

Open Project and create ".env", "app.js" and "database.js" file



Initialize default functions in app.js

```
×
JS app.js
JS app.js > ...
       const express = require("express");
       require("dotenv").config();
  2
  4
       const app=express();
       const port=process.env.PORT;
  6
       app.all("/",function(request, response){
           return response.json({status:true, message:"Express Js Up and Running..."});
  8
       });
  9
 10
       app.listen(port, ()=>{console.log(`Server running on port number ${port}`)});
 11
 12
 13
```

Run Project and check browser output

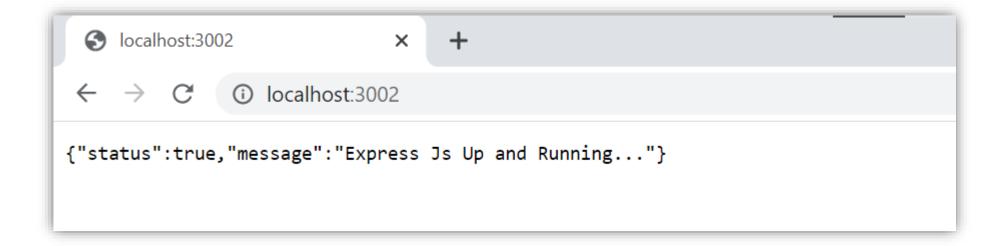
```
TERMINAL PROBLEMS OUTPUT DEBUG CONSOLE

PS D:\reactshrenik\Ex8-Express-Js\#5-Express-MongoDb-Connection\express-mongodb> nodemon app.js

[nodemon] 2.0.7

[nodemon] to restart at any time, enter `rs`

[nodemon] watching path(s): *.*
```



Write Connection Function in "database.js" file

```
JS database.js •
JS database.js > ...
       const mongoose = require('mongoose');
       const assert = require("assert");
       const db_url = process.env.DB_URL;
    v mongoose.connect(db_url,{
           useNewUrlParser:true,
  6
           useUnifiedTopology:true,
           useCreateIndex:true},
  8
  9
           (error,link)=>{
 10 🗸
               assert.equal(error, null, 'Database Connection Failed');
 11
               console.log("Database Connection Done.");
 12
               console.log(link);
 13
 14
 15
       );
 16
```

Import "database.js" file to connect database

```
JS app.js X

JS app.js > ...

1    const express = require("express");
2    require("dotenv").config();
3    const database = require("./database");
4
```

Implement "database.js" to connect mongodb database using "mongoose" module

```
JS database.js X
JS database.js > ...
       const mongoose = require('mongoose');
       const db url = process.env.DB URL;
       console.log(mongoose.connection.readyState);
       let connectMongoDb = () => {
           return new Promise((resolve, reject)=>{
                   mongoose.connect(db url, {useNewUrlParser:true,useUnifiedTopology: true});
 11
                   mongoose.connection
                       .once("open", () => {
 12
                           console.log("Connected");
 13
                           const conn status = mongoose.connection.readyState;
 14
                           resolve(conn status);
 15
                       .on("error", (error) => {
 17
                           console.log("Error :" + error);
                           reject("Mongo Db Connection Failed");
 19
                       });
           });
 21
 22
 23
 24
 25
       module.exports.connectMongoDb = connectMongoDb;
```

Write route in "app.js" to call connect mongodb database. Handle and show Error

```
app.get("/mongoconnect",function (request, response){
15
          console.log("You are in mongoconnect");
          response.setHeader('Content-Type', 'application/json');
17
18
          database.connectMongoDb().then((arg)=>{
19 🗸
              console.log('Connection Status : ' + arg);
20
21
22
23
              response.end(JSON.stringify({"status":arg},null,3));
24
25 🗸
          }).catch((error)=>{
              console.log(error.arg);
              response.end(JSON.stringify({"status":error},null,3));
27
          });
28
29
30
31
      })
32
     app.listen(port, ()=>{console.log(`Server running on port number ${port}`)});
```