MAJOR PROJECT

Project Name: MongoDB with Nodejs June Major Project

Project Description: Insert Data using form to MongoDB Database. Create a Database in MongoDB with collection to insert data using form._Prepare a form using EJS for inserting data to MongoDB

Form Fields includes,

1.Student name

2.Email ID

3.Course

4.Age

5.Submit button

Content

Chapter 1

Procedure:

Step1: Create a folder with any name

Step2: inside of directory enter the command **npm init** using terminal, it creates package.json file and rename **"main" as "app.js".**

Step3: create file called **app.js** and produce code into this file.

Step4: we node_modules for this file for that we have to install expressjs. On this directory enter this command **npm install express body-parser mongoose nodemon**. We also need mongoose for connecting database and nodemon for development.

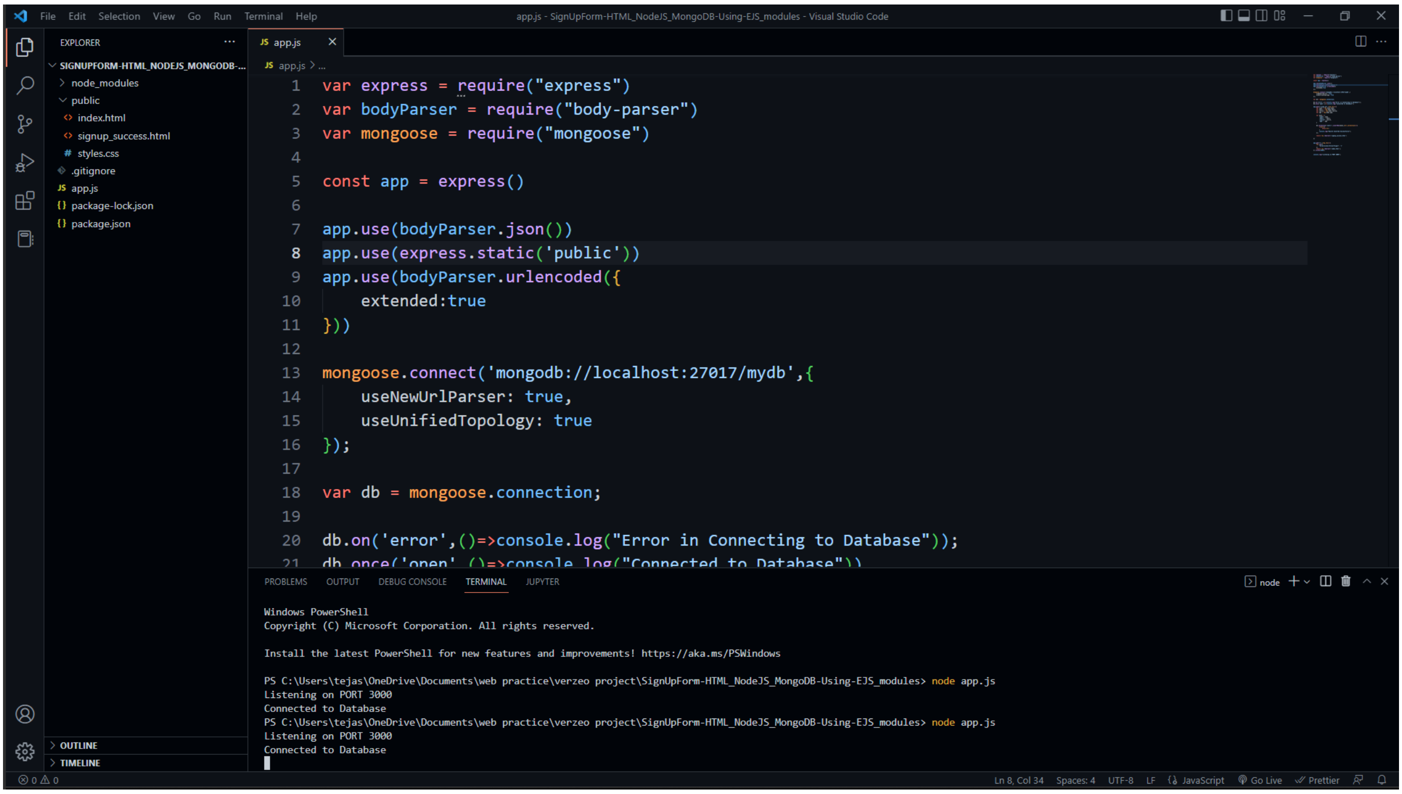
Step5: create new folder and create HTML file inside of this directory called as **public/index.html** and produce html code.

Step6: create new two file as **signup_success.html** and **styles.css** and produce html and css code.

Chapter 2

Ouputs Commands:

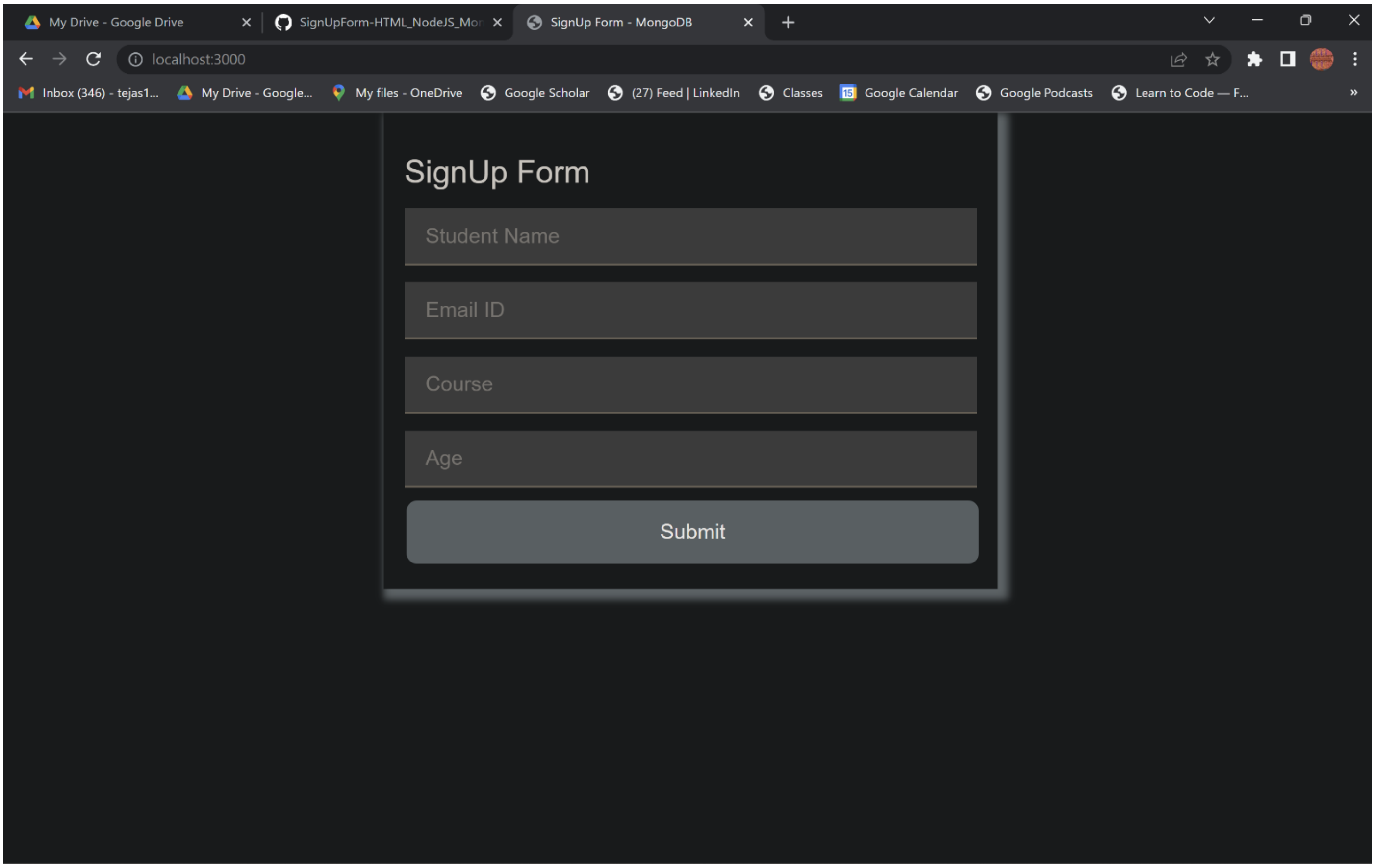
1)node app.js


File Edit Selection View Go Run Terminal Help
app.js - SignUpForm-HTML_NodeJS_MongoDB-Using-EJS_modules - Visual Studio Code
EXPLORER
SIGNUPFORM-HTML_NODEJS_MONGODB-...
node_modules
public
index.html
signup_success.html
styles.css
.gitignore
app.js
package-lock.json
package.json
OUTLINE
TIMELINE
PROBLEMS
OUTPUT
DEBUG CONSOLE
TERMINAL
JUPYTER
node
Ln 8, Col 34 Spaces: 4 UTF-8 LF JavaScript Go Live Prettier

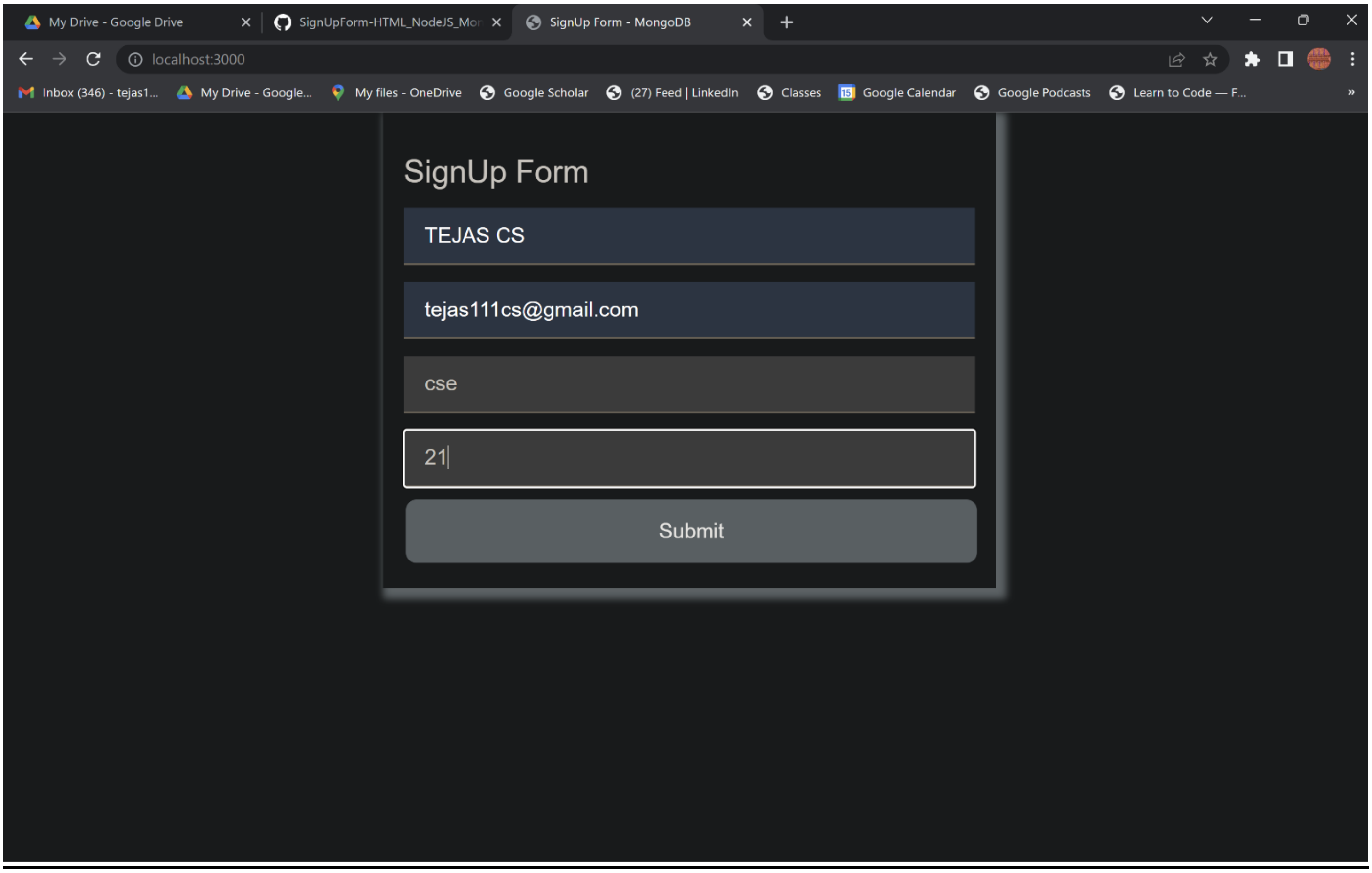
```javascript
var express = require("express")
var bodyParser = require("body-parser")
var mongoose = require("mongoose")

const app = express()

app.use(bodyParser.json())
app.use(express.static('public'))
app.use(bodyParser.urlencoded({
    extended:true
}))

mongoose.connect('mongodb://localhost:27017/mydb',{
    useNewUrlParser: true,
    useUnifiedTopology: true
});

var db = mongoose.connection;

db.on('error',()=>console.log("Error in Connecting to Database"));
db.once('open',()=>console.log("Connected to Database"))
```

```
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS C:\Users\tejas\OneDrive\Documents\web practice\verzeo project\SignUpForm-HTML_NodeJS_MongoDB-Using-EJS_modules> node app.js
Listening on PORT 3000
Connected to Database
PS C:\Users\tejas\OneDrive\Documents\web practice\verzeo project\SignUpForm-HTML_NodeJS_MongoDB-Using-EJS_modules> node app.js
Listening on PORT 3000
Connected to Database
```

2) localhost:3000



3)Fill forms with data



localhost:3000

SignUp Form

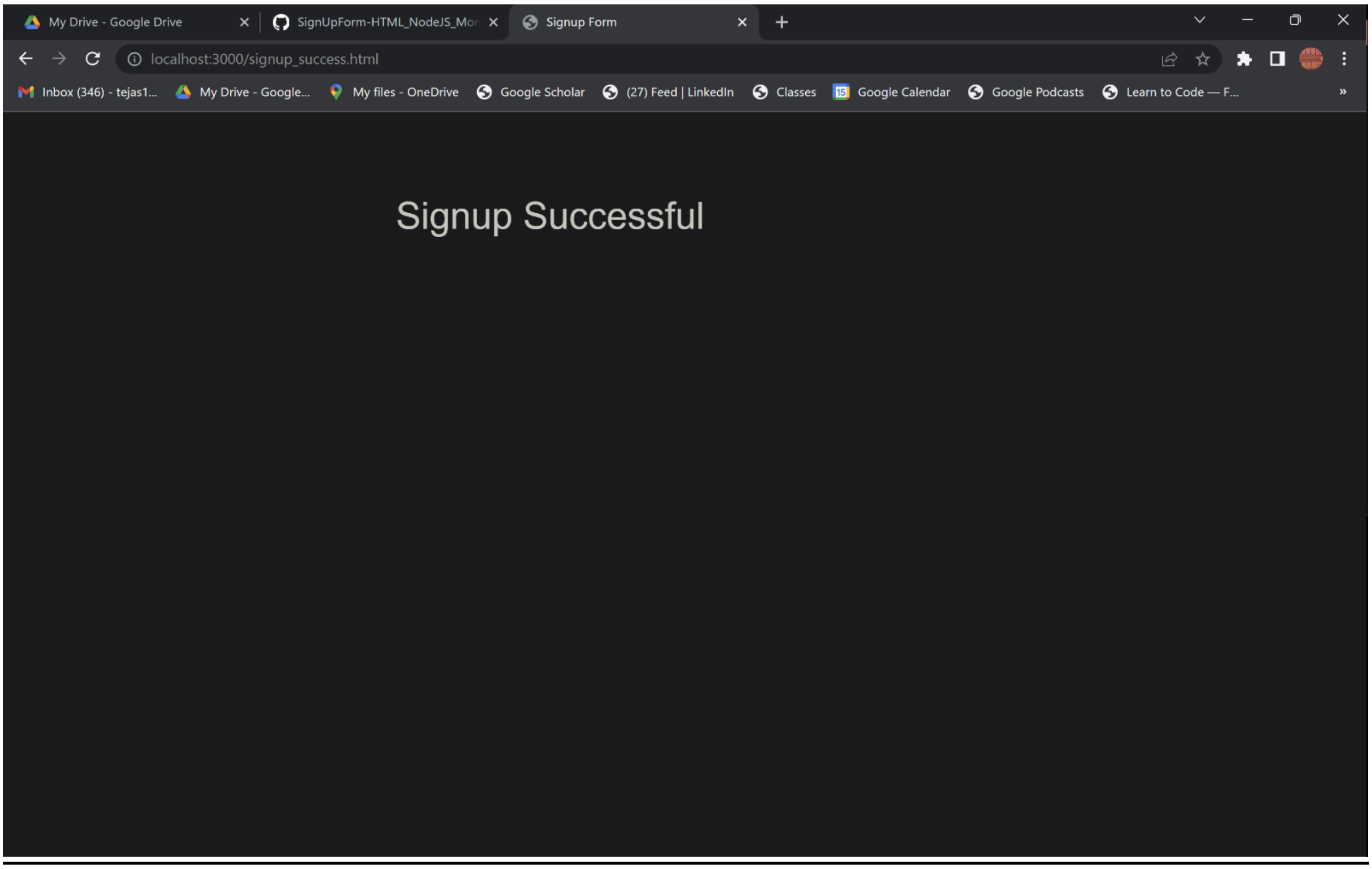
TEJAS CS

tejas111cs@gmail.com

cse

21

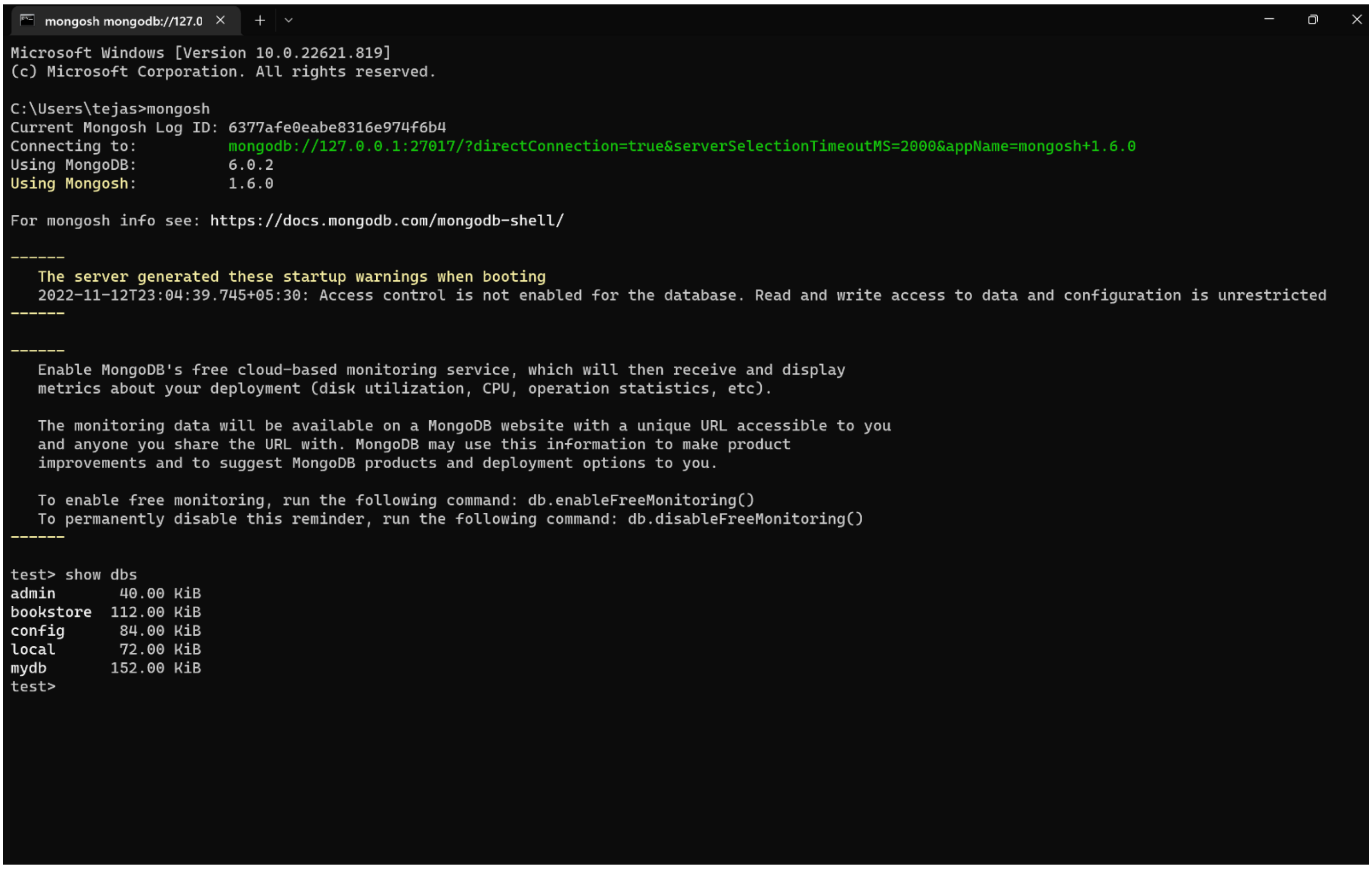
4)localhost:3000/signup_success.html



localhost:3000/signup_success.html

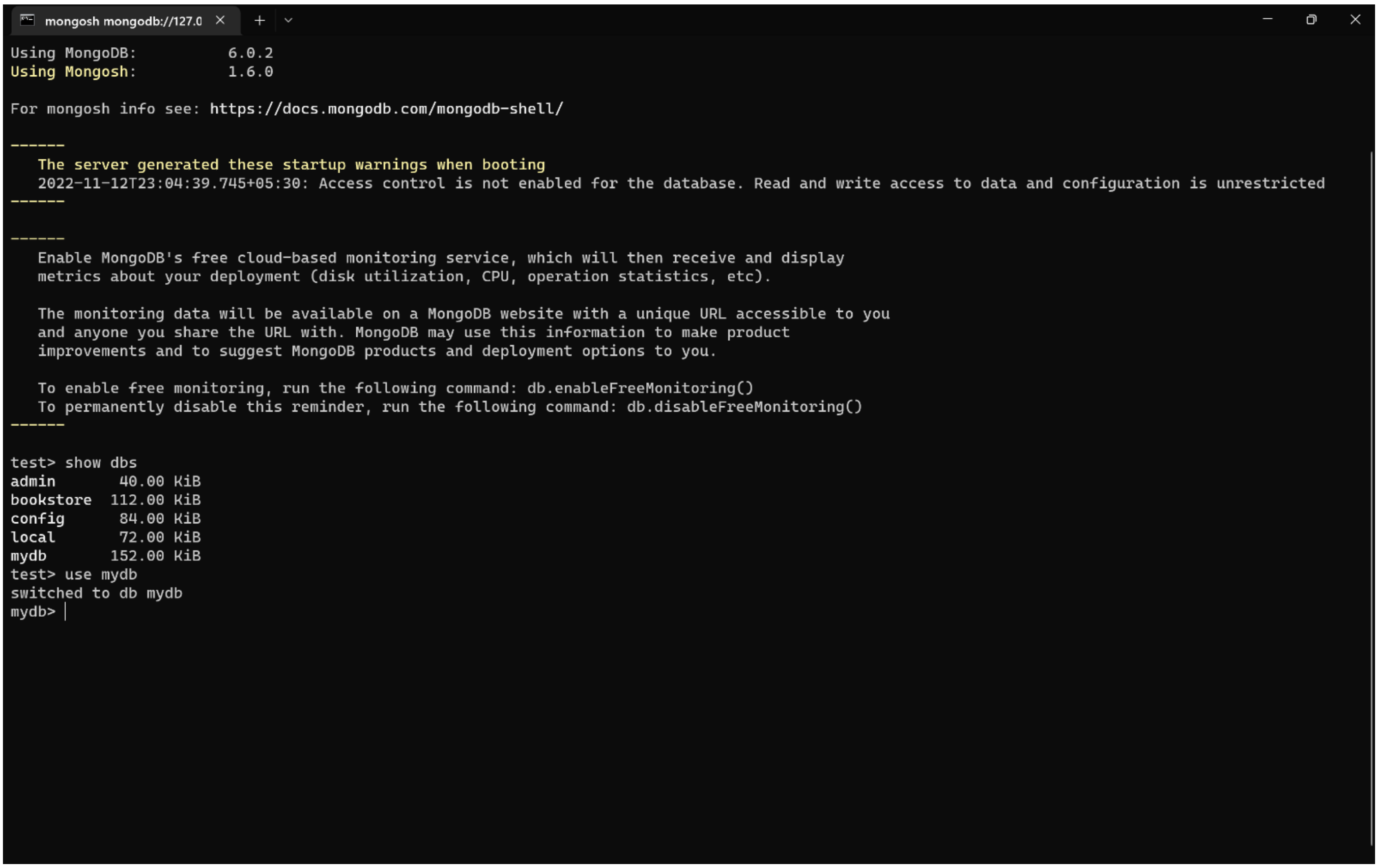
Signup Successful

5) Mongosh on Terminal and enter show dbs command



```
Microsoft Windows [Version 10.0.22621.819]
(c) Microsoft Corporation. All rights reserved.

C:\Users\tejas>mongosh
Current Mongosh Log ID: 6377afe0eabe8316e974f6b4
Connecting to:          mongodb://127.0.0.1:27017/?directConnection=true&serverSelectionTimeoutMS=2000&appName=mongosh+1.6.0
Using MongoDB:          6.0.2
Using Mongosh:          1.6.0

For mongosh info see: https://docs.mongodb.com/mongodb-shell/

------
   The server generated these startup warnings when booting
   2022-11-12T23:04:39.745+05:30: Access control is not enabled for the database. Read and write access to data and configuration is unrestricted
------

------
   Enable MongoDB's free cloud-based monitoring service, which will then receive and display
   metrics about your deployment (disk utilization, CPU, operation statistics, etc).

   The monitoring data will be available on a MongoDB website with a unique URL accessible to you
   and anyone you share the URL with. MongoDB may use this information to make product
   improvements and to suggest MongoDB products and deployment options to you.

   To enable free monitoring, run the following command: db.enableFreeMonitoring()
   To permanently disable this reminder, run the following command: db.disableFreeMonitoring()
------

test> show dbs
admin       40.00 KiB
bookstore  112.00 KiB
config      84.00 KiB
local       72.00 KiB
mydb       152.00 KiB
test>
```

6)use mydb



```
Using MongoDB:          6.0.2
Using Mongosh:          1.6.0

For mongosh info see: https://docs.mongodb.com/mongodb-shell/

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------

test> show dbs
admin       40.00 KiB
bookstore  112.00 KiB
config      84.00 KiB
local       72.00 KiB
mydb       152.00 KiB
test> use mydb
switched to db mydb
mydb>
```
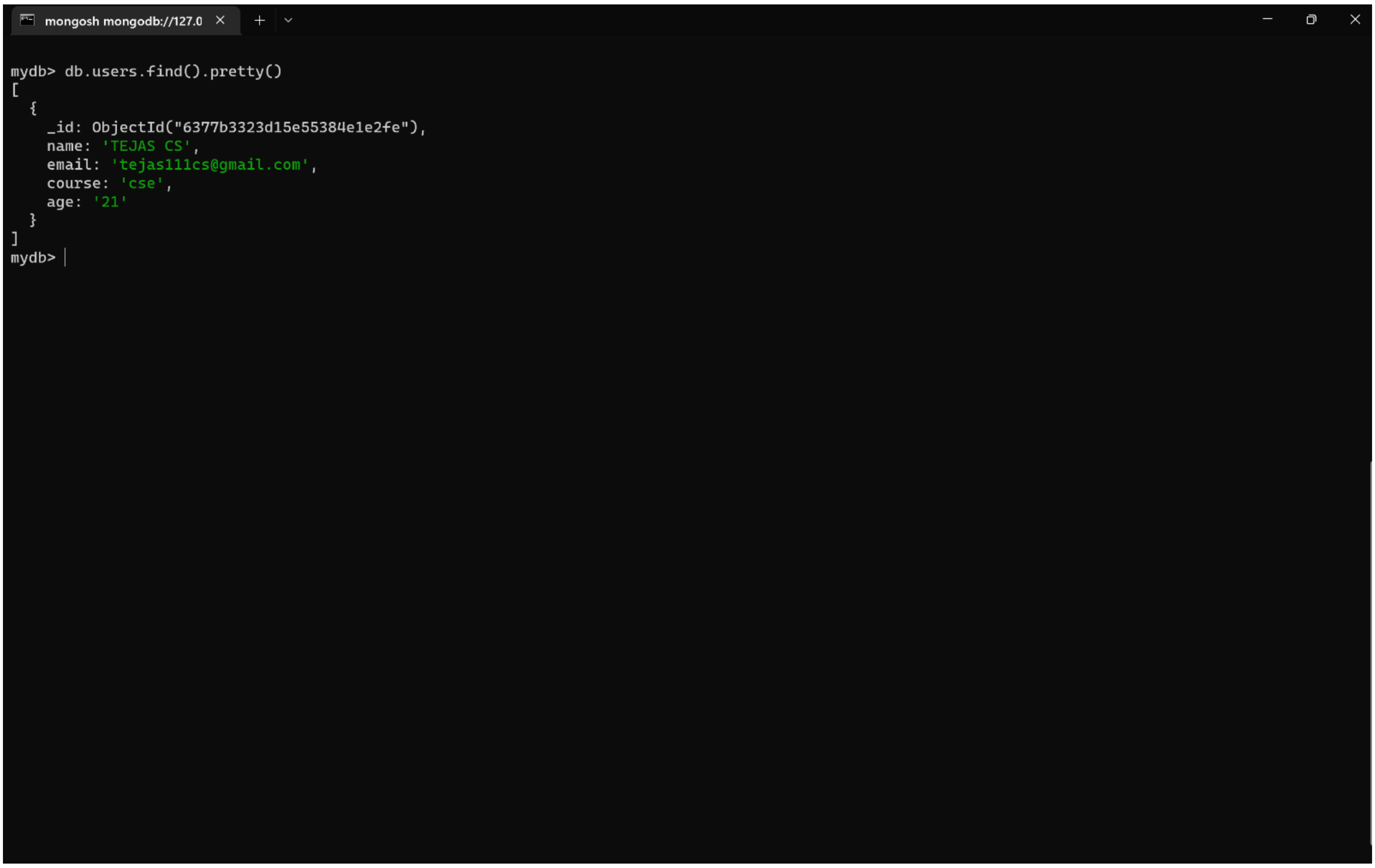

7)db.users.find()



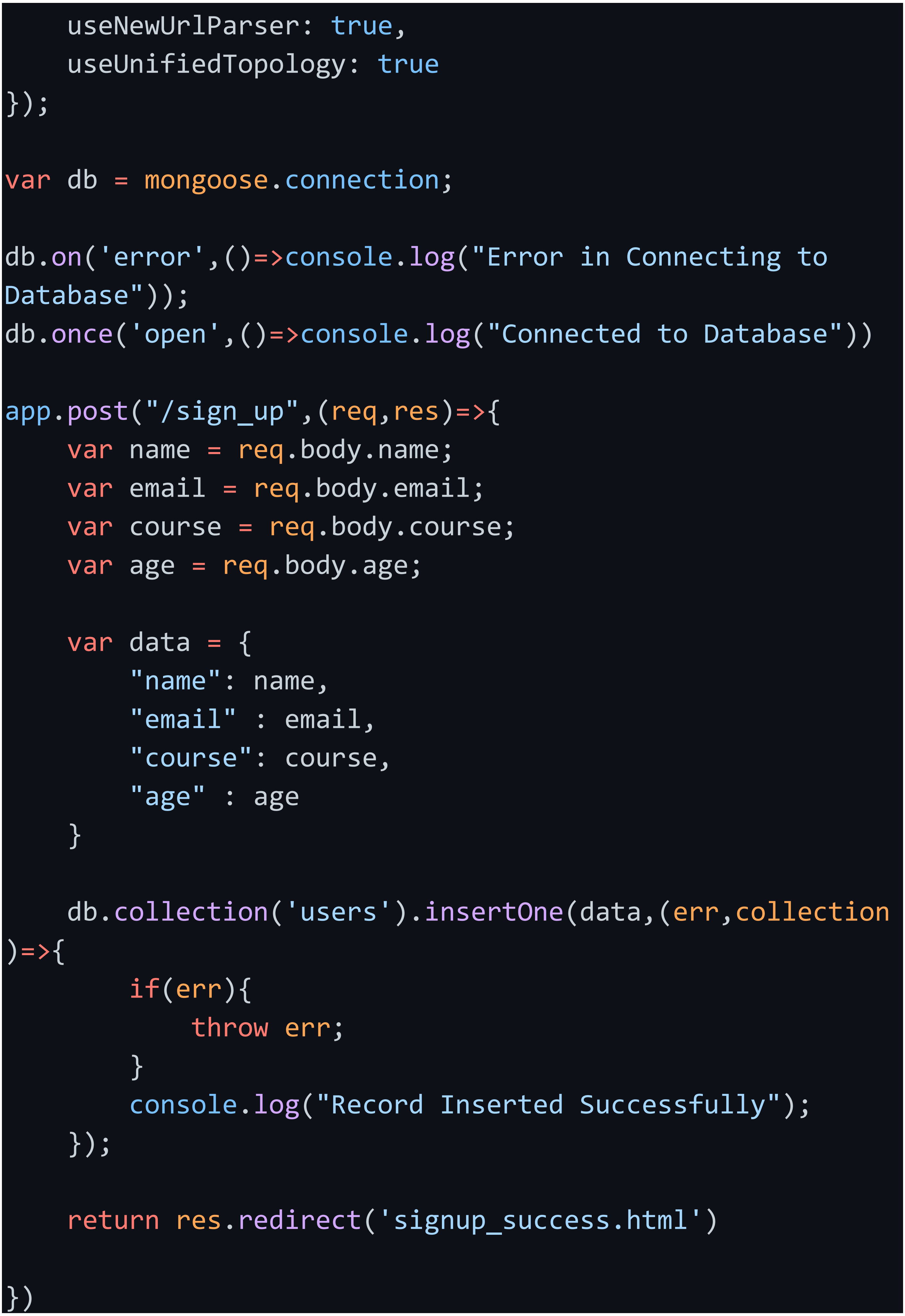
```
mydb> db.users.find().pretty()
[
  {
    _id: ObjectId("6377b3323d15e55384e1e2fe"),
    name: 'TEJAS CS',
    email: 'tejas111cs@gmail.com',
    course: 'cse',
    age: '21'
  }
]
mydb>
```

Chapter 3

Source code:

app.js

```
var express = require("express")
var bodyParser = require("body-parser")
var mongoose = require("mongoose")

const app = express()

app.use(bodyParser.json())
app.use(express.static('public'))
app.use(bodyParser.urlencoded({
    extended:true
}))

mongoose.connect('mongodb://localhost:27017/mydb',{
```



```
    useNewUrlParser: true,
    useUnifiedTopology: true
});

var db = mongoose.connection;

db.on('error',()=>console.log("Error in Connecting to
Database"));
db.once('open',()=>console.log("Connected to Database"))

app.post("/sign_up",(req,res)=>{
    var name = req.body.name;
    var email = req.body.email;
    var course = req.body.course;
    var age = req.body.age;

    var data = {
        "name": name,
        "email" : email,
        "course": course,
        "age" : age
    }

    db.collection('users').insertOne(data,(err,collection
)=>{
        if(err){
            throw err;
        }
        console.log("Record Inserted Successfully");
    });

    return res.redirect('signup_success.html')

})
```

```
app.get("/",(req,res)=>{
    res.set({
        "Allow-access-Allow-Origin": '*'
    })
    return res.redirect('index.html');
}).listen(3000);


console.log("Listening on PORT 3000");
```

index.html

```
<!DOCTYPE html>
<html lang="en">

<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>SignUp Form - MongoDB</title>

    <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/css/bootstrap.min.css" integrity="sha384-BVYiiSIFeK1dGmJRAkycuHAHRg32OmUcww7on3RYdg4Va+PmSTsz/K68vbdEjh4u" crossorigin="anonymous">

    <link rel="stylesheet" type="text/css" href="styles.css">
</head>

<body>
```

```html
    <div class="container">
        <div class="row">
            <div class="col-md-3">

            </div>
            <div class="col-md-6 main">
                <form action="/sign_up" method="POST">
                    <h2>SignUp Form</h2>
                    <input type="text" class="box"
id="name" name="name" placeholder="Student Name" required
/>
                    <br>
                    <input type="text" class="box"
id="email" name="email" placeholder="Email ID" required
/>
                    <br>
                    <input type="text" class="box"
id="course" name="course" placeholder="Course" required
/>
                    <br>
                    <input type="text" class="box"
id="age" name="age" placeholder="Age" required />
                    <br>
                    <input type="submit" value="Submit"
id="submit" />
                </form>
            </div>
            <div class="col-md-3">
            </div>
        </div>
    </div>

</body>
```

```
</html>
```

singup_success.html

```
<!DOCTYPE html>
<html>

<head>
    <title> Signup Form</title>
    <link rel="stylesheet"
href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/css
/bootstrap.min.css" integrity="sha384-
BVYiiSIFeK1dGmJRAkycuHAHRg32OmUcww7on3RYdg4Va+PmSTsz/K68v
bdEjh4u" crossorigin="anonymous">

    <link rel="stylesheet" type="text/css"
href="style.css">
</head>

<body>
    <br>
    <br>
    <br>
    <div class="container">
        <div class="row">
            <div class="col-md-3">
            </div>

            <div class="col-md-6 main">

                <h1> Signup Successful</h1>

            </div>

            <div class="col-md-3">
            </div>

        </div>
    </div>
</body>

</html>
```

styles.css

```
.main {
    padding: 20px;
    font-family: 'Helvetica', serif;
    box-shadow: 5px 5px 7px 5px #888888;
}

.main h1 {
    font-size: 40px;
    text-align: center;
    font-family: 'Helvetica', serif;
}

input {
    font-family: 'Helvetica', serif;
    width: 100%;
    font-size: 20px;
    padding: 12px 20px;
    margin: 8px 0;
    border: none;
    border-bottom: 2px solid #767474;
}
```

```
input[type=submit] {
    font-family: 'Helvetica', serif;
    width: 100%;
    background-color: #767474;
    border: none;
    color: white;
    padding: 16px 32px;
    margin: 4px 2px;
    border-radius: 10px;
}
```