

## Lab-6 Working with MongoDB

### 1. Create login and registration using MongoDB and Express.

#### Mongo DB Connection

##### db.JS

```
const mongoose = require("mongoose");

mongoose.connect("mongodb://localhost:27017/MyDB", {
  useNewUrlParser: true,
  useUnifiedTopology: true
},(err)=>{

  if(!err)
  {
    console.log("Connection Successful")

  }
  else
  {
    console.log("connection not OK")
  }
})

const sch = {
  name : String,
  lname: String
};

const monmodel = mongoose.model("userdata", sch);

module.exports= monmodel;
```

# Index.js

```
const express = require('express');
const ejs = require('ejs');
//const Joi = require('joi'); //used for validation
var bodyParser = require('body-parser');
var path = require('path');
//const obj=require('./obj.js')
const cur = require("./db.js");
const { response } = require('express');
//const monmodel = require('./db.js');
const app = express();
app.use(express.json());
app.use(bodyParser.json());
app.use(bodyParser.urlencoded({ extended: true }));
app.set('view engine', 'ejs');
const books = [
  {title: 'Harry Potter', id: 1},
  {title: 'Twilight', id: 2},
  {title: 'Lorien Legacies', id: 3}
]

//READ Request Handlers
app.get('/', (req, res) => {
  res.send('Welcome to REST API with Node.js Tutorial!!');
});

app.get('/api/books', (req,res)=> {
  res.send(books);
});
app.get('/reg', (req,res)=> {
  res.sendFile(path.join(__dirname,"/form.html"));
});
app.get('/query', (req,res)=> {
  res.send(req.query);
});

app.get('/ejs', (req,res)=> {
  res.render('index.ejs', {firstName: "Geeks,",
    lastName: "A Computer Science Portal"});
});
```

## //Insert record in database using Post query

```
app.post('/data', (req,res)=> {
  //res.send(req.body.nm);
  sname=req.body.nm;
  roll=req.body.rl;
  const obj1 = new cur({
    name:sname,
    lname: roll
  });
  obj1.save()
  res.render('index.ejs',{firstName:sname,lastName:roll });
});
```

```
app.get('/gdata', (req,res)=> {
  //res.send(obj);
  const query = cur.find({}, function(err,data){
    res.render('home.ejs',{data:data});
  });
});
```

```
app.get('/login', (req,res)=> {
  res.sendFile(path.join(__dirname,"/login.html"));
});
```

## //Login verification from database

```
app.post('/loginv', (req,res)=> {
  sname=req.body.nms;
  roll=req.body.rls;
  const obj2={
    name: sname,
    roll: roll
  };
  const query1 = cur.find({name:obj2.name}, function(err,data){
    var user = data;
    console.log(data.length)
    if(data.length<1)
    {
      res.render('nr.ejs',{firstName:obj2.name,lastName:obj2.roll});
    }
    else {
      res.render('logv.ejs',{firstName:obj2.name,lastName:obj2.roll});
    }
  })
});
```

```
});

app.get('/fdata', (req,res)=> {
  res.sendFile(path.join(__dirname,"/fun.html"));
});
app.get('/rdata', (req,res)=> {
  res.send(req.query);
});
app.get('/fdata', (req,res)=> {
  res.render(contact.ejs);
});
```

## //Delete record from collection

```
app.get('/del', (req,res)=> {
  console.log(req.query.nm)
  cur.deleteOne({name:req.query.nm},function (err) {
    if(err) console.log(err);
    const query = cur.find({}, function(err,data){
      res.render('home.ejs',{data:data});
    });
  });

});

app.listen(3000)
```

## //Embedded Java script Templates/View Engines

### Home.ejs

```
<!DOCTYPE html>
<html>

<body style="text-align: center">
  <section></section>
  <h1 style="color: green"> Registered users </h1>

  <% data.forEach((data)=> { %>
    <ol>
      <h2>
```

```

        <li> <%= data.name %> <%= data.roll %></li>
    </h2>
</ol>

    <% }) %>
</section>
<section>
    <form action="/del" method="GET">
        <h3 style="color: red;">Delete Record <input type="text" name="nm"></h3>
        <input type="submit">
    </form>
</section>
<section>
    <form action="/insert" method="GET">
        <h3 style="color: red;">Insert Record <input type="text" name="nm"></h3>
        <input type="submit">
    </form>
</section>

</body>
</html>

```

## Logv.ejs

```

<!DOCTYPE html>
<html>

<body style="text-align: center">
    <h1 style="color: green;"> Registration successful </h1>
    <h3>
        Login Successful
        <%= firstName %>
        <%= lastName %>

    </h3>
</body>
</html>

```

## index.ejs

```
<!DOCTYPE html>
<html>

<body style="text-align: center">
  <h1 style="color: green"> Registration successful </h1>
  <h3>
    Welcome
    <%= firstName %>
    <%= lastName %>
    <form action="/gdata" method="GET">

      <input type="submit" value="getdata">
    </h3>
</body>
</html>
```