



ONLINE MEDICAL STORE

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Github link-: <https://github.com/shub22mishra/onlinemedicalstore>

SUBMITTED TO
NEHA SHARMA MA'AM

Objective

The objective of this project is to provide 24 * 7 medical service to all the people. I have done this project using Node, Express & MongoDB. In this project I have provided some features like Upload Prescription, User Registration, Login, Medicine category and so on.

This is the User Interface of the project



Technology used

- I have used **Node.js** For backend such as for routing.
- **Express.js**:- Node.js Web framework.
- **MongoDB**:- For database
- **Nodemon**:- To do Automatic Refresh. With a small change in code it will refresh our server
- **Joi**:- For Validation
- **EJS**:- Embedded JavaScript Templating. It is a view engine
- **Chai/Mocha**:- to perform basic testing using chai, mocha and chai-http, we will add a script that will invoke our test and we will see pass when tests will pass.

SEVER is Running at localhost:4000

```
index.js > ...
1  const express = require("express");
2  const session = require("express-session");
3  const bodyParser = require("body-parser");
4  require("./utils/db.config");
5  const MongoStore = require("connect-mongo")(session);
6  const mongoDbConnection = require("./utils/db.config");
7  const passport = require("passport");
8  require("./utils/authStrategies/localStrategy");
9
10 const authRoutes = require("./routes/authRoutes");
11 const app = express();
12 app.use(express.static("public"));
13
14 app.use(bodyParser.urlencoded({ extended: false }));
15 app.set("view engine", "ejs");
16 // app.set('trust proxy', 1)
17 app.use(
18   session({
19     secret: "788a154e2a8d07c4cafdee4a7d6dff2d90ab2586",
20     resave: false,
21     saveUninitialized: true,
22     cookie: { secure: false },
23     store: new MongoStore({ mongooseConnection: mongoDbConnection }),
24   })
25 );
26 app.use(passport.initialize());
```

```
app.use(passport.session());

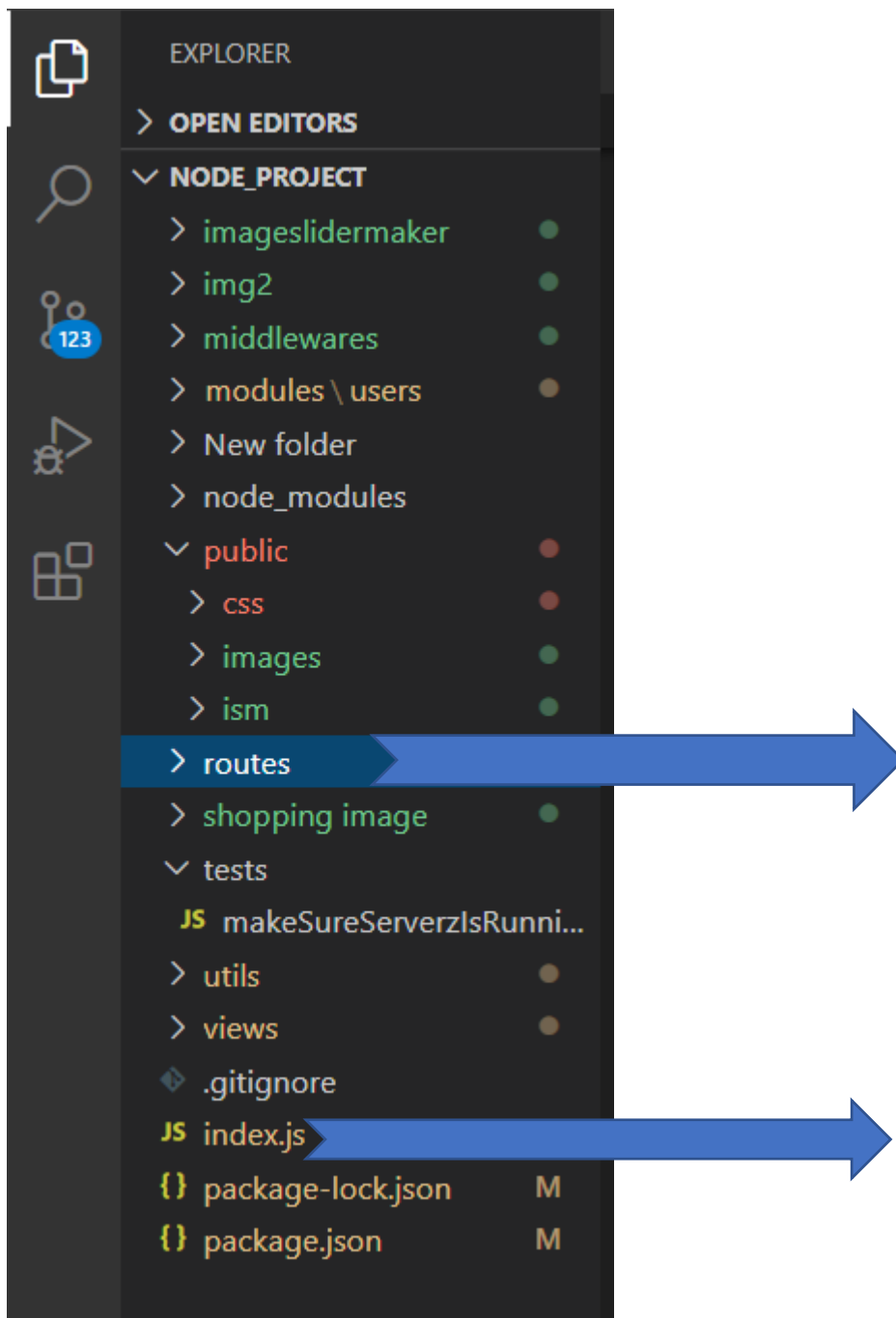
app.use("/", authRoutes);

app.get("/", (req, res) => {
  req.session.views = (req.session.views || 0) + 1;
  console.log("User:", req.user);
  return res.render("index");
});

app.listen(4000, () => {
  console.log("Server running at port 4000");
});

module.exports = app;
```

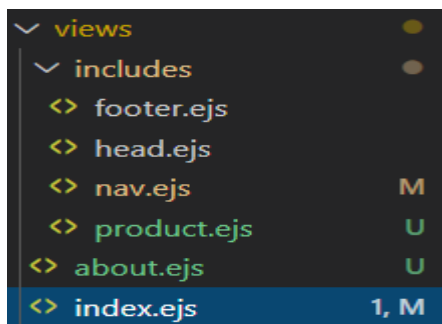
Project file structure



Home page code and screenshots.

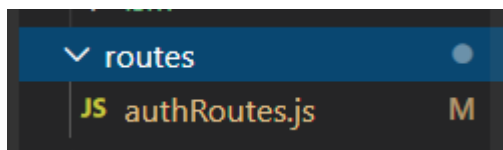


Here I create a view using EJS name as **index.ejs** inside **view** folder.



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6
7 <link rel="stylesheet" type="text/css" href="/css/medical.css" ></link>
8 <meta http-equiv="Content-Type" content="text/html; charset=iso-8859-1" />
9 <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/4.7.0/css/font-awesome.min.css"></head>
10 <link rel="stylesheet" href="/ism/css/my-slider.css"/>
11
12 <script src="/ism/js/ism-2.2.min.js"></script>
13
14
15 <title>Medical Shop</title>
16 </head>
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18 <body>
19 <div class="page">
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22 <div class="header">
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26 </div>
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29 <div class="links">
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32 <div class="rightmenu" align="center">
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```

Now inside route Folder I have done the routing



```
const express = require("express");
const router = express.Router();
const { addUser } = require("../modules/users/service/userService");
const {
  registerSchema,
} = require("../modules/users/validations/authValidation");
const {
  JoiErrorFormatter,
  mongooseErrorFormatter,
} = require("../utils/validationFormatter");
const passport = require("passport");

/**
 * Shows page for user registration
 */
router.get("/register", (req, res) => {
  return res.render("register", { message: {}, formData: {}, errors: {} });
});

/**
 * Handles user registration
 */
router.post("/register", async (req, res) => {
  try {
    const validationResult = registerSchema.validate(req.body, {
      abortEarly: false,
    });
  }
});
```


I have performed automated testing using chai/mocha

```
tests > JS makeSureServerIsRunning.js > ...
1  const chai = require("chai");
2  const chaiHttp = require("chai-http");
3  const app = require("../index");
4
5  // Configure chai
6  chai.use(chaiHttp);
7  chai.should();
8
9  describe("Make sure that status is 200", () => {
10    it("should return 200", (done) => {
11      chai
12        .request(app)
13        .get("/")
14        .end((err, res) => {
15          res.should.have.status(200);
16          res.body.should.be.a("object");
17          done();
18        });
19    });
20  });
21
22  describe("Make sure register fails on no data", () => {
23    it("should return 400", (done) => {
24      chai
25        .request(app)
26        .post("/register")
27        .end((err, res) => {
```

PROBLEMS 25 OUTPUT TERMINAL DEBUG CONSOLE

Connected to MongoDB
(node:14536) DeprecationWarning: collection.ensureIndex is deprecated. Use createIndexes instead.
User: undefined
[nodemon] restarting due to changes...
[nodemon] starting 'node index.js'
Server running at port 4000
Connected to MongoDB
(node:12684) DeprecationWarning: collection.ensureIndex is deprecated. Use createIndexes instead.
User: undefined
[]

There's a

This code states that the return status should be 200. If it return other than 200 . It will throw an error.



2nd Module Registration page

REGISTRATION PAGE

A registration form with the title "Registration" in a large, bold, grey font. Below the title are four input fields: "Name", "Email address", "Password", and "Repeat Password". Each field has a light grey border and a small "x" icon on the right. Below the "Email address" field is a small line of text: "We'll never share your email with anyone else". Below the "Password" field is a checkbox labeled "Check me out". At the bottom is a blue "Submit" button with white text.

I have created this page using EJS. In this page I have performed Validation using JOI(which is a express middleware for validation).

I have also store all the user detail in Database. I have use MONGODB for the database purpose.

I have also performed password ENCRYPTION for more security purpose. This encrypted password is going to store in database. **For encryption I use node.bcrypt.js**

```
npm install bcrypt
```

password: "\$2b\$10\$5cXC8JFg3l1aZwcMZUt30.DcU5EB/OMAdGTepmY2NxZv5h9famrjK"

Here password get encrypted

code and screenshot

```
<div class="form-group">
  <label for="password">Password<sup class="text-danger">*</sup></label>
  <input
    type="password"
    name="password"
    class="form-control <%= errors.password ? 'is-invalid' : '' %>"
    id="password"
    required
  />
  <% if (errors.password) { %>
    <div class="invalid-feedback"><%= errors.password[0] %></div>
  <% } %>
</div>

<div class="form-group">
  <label for="repeat_password"
    >Repeat Password<sup class="text-danger">*</sup></label>
  >
  <input
    type="password"
    name="repeat_password"
    class="form-control"
    id="repeat_password"
    required
  />
</div>
```

```
<body>
  <%- include('includes/nav'); %>
  <div class="container mt=5">
    <h1>Registration</h1>
    <% if (message.type) { %>
      <div
        class="alert alert-<%= message.type === 'success' ? 'success' : 'danger' %>"
        role="alert"
      >
        <%= message.body %>
      </div>
    <% } %>
    <form method="POST" action="/register">
      <div class="form-group">
        <label for="name">Name<sup class="text-danger">*</sup></label>
        <input
          type="text"
          class="form-control <%= errors.name ? 'is-invalid' : '' %>"
          id="name"
          name="name"
          value="<%= formData.name %>"
          maxlength="64"
          minlength="2"
          required
        />
      </div>
    </form>
  </div>
</body>
```

```

    <% if (errors.name) { %>
    <div class="invalid-feedback"><%= errors.name[0] %></div>
    <% } %>
  </div>

  <div class="form-group">
    <label for="email"
    >Email address<sup class="text-danger">*</sup></label>
    >
    <input
    type="email"
    class="form-control <%= errors.email ? 'is-invalid' : '' %>"
    id="email"
    name="email"
    aria-describedby="emailHelp"
    value="<%= formData.email %>"
    maxlength="128"
    required
    />
    <% if (errors.email) { %>
    <div class="invalid-feedback"><%= errors.email[0] %></div>
    <% } %>
    <small id="emailHelp" class="form-text text-muted"
    >We'll never share your email with anyone else.</small>
    >
  </div>

```

FOR VALIDATION

```

modules > users > validations > .js authValidation.js > [e] registerSchema
1  const Joi = require("@hapi/joi");
2
3  const registerSchema = Joi.object({
4    name: Joi.string().replace(/[0-9]/g, "").min(2).max(64).required(),
5
6    password: Joi.string().required(),
7
8    repeat_password: Joi.ref("password"),
9
10   email: Joi.string()
11     .trim()
12     .lowercase()
13     .email({ minDomainSegments: 2, tlds: { allow: ["com", "net", "in"] } }),
14   }).with("password", "repeat_password");
15
16   module.exports = { registerSchema };
17

```

With the help of this code I validate name as well as password.

If user password is not matched with confirm password it will throw error

Registration

Validation Errors :

Name*

Shubham Mishra

Email address*

shubhammishra221298@gmail.com

We'll never share your email with anyone else.

Password*

Repeat Password*

☐ Check me out

Submit

If the detail entered by user is correct

Registration

Registration success

Name*

Shubham Mishra

Email address*

shubhammishra221298@gmail.com

We'll never share your email with anyone else.

Password*

Repeat Password*

☐ Check me out

Submit

DATA CONNECTIVITY(MONGODB)

```
utils > JS db.config.js > ...
1  const mongoose = require("mongoose");
2  mongoose.connect("mongodb://localhost:27017/x-store", {
3    useNewUrlParser: true,
4    useUnifiedTopology: true,
5  });
6
7  mongoose.connection.once("open", () => {
8    console.log("Connected to MongoDB");
9  });
10 module.exports = mongoose.connection;
11
```

Data entered by the user is stored in the database named as x-store;

The image shows two screenshots of the MongoDB Compass interface. The top screenshot displays the 'Databases' tab, and the bottom screenshot displays the 'Collections' tab.

Databases Tab:

Database Name	Storage Size	Collections	Indexes
admin	20.0KB	0	1
config	12.0KB	0	2
local	36.0KB	1	1
x-store	72.0KB	2	4

Collections Tab:

Collection Name	Documents	Avg. Document Size	Total Document Size	Num. Indexes	Total Index Size	Properties
sessions	10	188.5 B	1.8 KB	2	72.0 KB	
users	10	209.8 B	3.7 KB	2	72.0 KB	

Once the user is successful registered .it will redirected to **Login Page**

Login

Email address*

Password*

Submit







Now there is a product page where user can buy medicine




Code screenshot

```
<div class="card1">
  
  <h3>MASK</h3>
  <p class="price">Rs.450.00</p>
  <p></p>
  <p>
    <button onclick="window.location.href = '/checkout'">Buy Now</button>
  </p>
</div>
<div class="card2">
  
  <h3>HORLICKS</h3>
  <p class="price">Rs.170.00</p>
  <p></p>
  <p>
    <button onclick="window.location.href = '/checkout'">Buy Now</button>
  </p>
</div>
```


After click on buy now it will be redirected to **Checkout form**

Billing Address		Payment	
 Full Name		Accepted Cards	
<input type="text"/>		  	
<input checked="" type="checkbox"/> Email		Name on Card	<input type="text"/>
<input type="text"/>		Credit card number	<input type="text"/>
 Address		Exp Month	<input type="text"/>
<input type="text"/>		Exp Year	<input type="text"/>
 Mobile No		CVV	<input type="text"/>
<input type="text"/>			
State	Zip		
<input type="text"/>	<input type="text"/>		
<input checked="" type="checkbox"/> Shipping address same as billing			
Continue to checkout			

Cart  1

Product	RS.150.00
Delivery Charge	RS 30.00
Total	Rs 180.00

```
<div class="col-25">
  <div class="container">
    <h4>Cart <span class="price" style="color: black"><i class="fa fa-shopping-cart"></i> <h>1</b></span></h4>
    <p><a href="#">Product </a> <span class="price"> RS.150.00</span></p>
    <p><a href="#">Delivery Charge</a> <span class="price">RS 30.00</span></p>
    <hr>
    <p>Total <span class="price" style="color: black"><h>Rs 180.00</b></span></p>
  </div>
</div>
</div>
```

After final checkout it will redirect to

 **Med Cure** *Precaution is better than cure*

HOME REGISTER ABOUT UPLOAD PRESCRIPTION LOGIN MEDICINE LIFE-STYLE TREATMENTS

Thanks for shopping with us

You will receive your medicine as soon as possible.

Stay safe stay healthy

About us page



Upload Prescription Page



-----End-----

