**P4: Login System using Session and Cookie**

**login.html**

<html>

    <head>

        <title>Login Here</title>

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

    </head>

    <body class="container">

        <div class="page-header">

            <h1>Login System using Session and Cookie</h1>

        </div>

        <nav class="navbar navbar-default">

            <div class="container-fluid">

                <!-- Collect the nav links, forms, and other content for toggling -->

                <div class="collapse navbar-collapse" id="bs-example-navbar-collapse-1">

                    <ul class="nav navbar-nav">

                        <li><a href="/">Home</a></li>

                        <li><a href="/signup">Sign Up</a></li>

                        <li><a href="/dashboard">Dashboard</a></li>

                    </ul>

                    <ul class="nav navbar-nav navbar-right">

                        <li><a href="/login">Log In</a></li>

                        <li><a href="/logout">Log Out</a></li>

                    </ul>

                </div><!-- /.navbar-collapse -->

            </div><!-- /.container-fluid -->

        </nav>

        <div class="container row">

            <div class="jumbotron col-sm-4 pull-center">

                <form action="/login" method="post">

                    <div>

                        <label>Username:</label>

                        <input type="text" name="username"/>

                    </div>

                    <div>

                        <label>Password:</label>

                        <input type="password" name="password"/>

                    </div>

                    <div>

                        <input class="btn btn-primary" type="submit" value="Log In"/>

                    </div>

                </form>

            </div>

        </div>

    </body>

</html>

**signup.html**

<html>

    <head>

        <title>Login Here</title>

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

    </head>

    <body class="container">

        <div class="page-header">

            <h1>Login System using Session and Cookie</h1>

        </div>

        <nav class="navbar navbar-default">

            <div class="container-fluid">

                <!-- Collect the nav links, forms, and other content for toggling -->

                <div class="collapse navbar-collapse" id="bs-example-navbar-collapse-1">

                    <ul class="nav navbar-nav">

                        <li><a href="/">Home</a></li>

                        <li><a href="/signup">Sign Up</a></li>

                        <li><a href="/dashboard">Dashboard</a></li>

                    </ul>

                    <ul class="nav navbar-nav navbar-right">

                        <li><a href="/login">Log In</a></li>

                        <li><a href="/logout">Log Out</a></li>

                    </ul>

                </div><!-- /.navbar-collapse -->

            </div><!-- /.container-fluid -->

        </nav>

        <div class="container row">

            <div class="jumbotron col-sm-4 pull-center">

                <form action="/signup" method="post">

                    <div>

                        <label>Username:</label>

                        <input type="text" name="username"/>

                    </div>

                    <div>

                        <label>Email:</label>

                        <input type="text" name="email"/>

                    </div>

                    <div>

                        <label>Password:</label>

                        <input type="password" name="password"/>

                    </div>

                    <div>

                        <input class="btn btn-primary" type="submit" value="Sign Up"/>

                    </div>

                </form>

            </div>

        </div>

    </body>

</html>

**Dashboard.html**

<html>

    <head>

        <title>Login Here</title>

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

    </head>

    <body class="container">

        <div class="page-header">

            <h1>Login System using Session and Cookie</h1>

        </div>

        <nav class="navbar navbar-default">

            <div class="container-fluid">

                <!-- Collect the nav links, forms, and other content for toggling -->

                <div class="collapse navbar-collapse" id="bs-example-navbar-collapse-1">

                    <ul class="nav navbar-nav">

                        <li><a href="/">Home</a></li>

                        <li><a href="/signup">Sign Up</a></li>

                        <li><a href="/dashboard">Dashboard</a></li>

                    </ul>

                    <ul class="nav navbar-nav navbar-right">

                        <li><a href="/login">Log In</a></li>

                        <li><a href="/logout">Log Out</a></li>

                    </ul>

                </div><!-- /.navbar-collapse -->

            </div><!-- /.container-fluid -->

        </nav>

        <div class="container row">

           <h1>Hi, Welcome to your Dashboard</h1>

        </div>

    </body>

</html>

**Index.js**

const express = require('express');

const bodyParse = require('body-parser');

const cookieParser = require('cookie-parser');

const session = require('express-session');

var User = require("./model/user")

const bcrypt =require('bcryptjs')

var app = express();

app.set('port',5555)

// app.use(bodyParse.urlencoded({

//     extended:true

// }))

app.use(express.urlencoded({

    extended:true

}))

app.use(cookieParser())

app.use(session({

    key:"user\_id",

    secret:"RandomSecretKey",

    resave:false,

    saveUninitialized:false,

    cookie:{

        expires:600000,

    },

}))

var sessionChecker=(req,res,next)=>{

    if(req.session.user && req.cookies.user\_id)

    {

        res.redirect("/dashbord")

    }else{

        next()

    }

}

app.get('/',sessionChecker,(req,res)=>{

    res.redirect("/login")

})

app.route("/login")

.get(sessionChecker,(req,res)=>{

    res.sendFile(\_\_dirname+"/html/login.html")

})

.post(async(req,res)=>{

    var username=req.body.username,

    password=req.body.password

    try{

       var user =await User.findOne({username:username}).exec();

       if(!user)

       {

           console.log("user dose not matched")

           res.redirect("/login")

       }

        console.log("user matched")

       user.comparePassword(password,(error,match)=>{

            if(!match){

                console.log("password dose not matched")

                res.redirect("/login")

            }

            console.log("password matched")

       });

       req.session.user=user;

       res.redirect("/dashboard")

    }catch(error){

        console.log(error)

        console.log("Error")

    }

})

app.route("/signup")

.get(sessionChecker,(req,res)=>{

    res.sendFile(\_\_dirname+"/html/signup.html")

})

.post((req,res)=>{

    var user =new User({

        username:req.body.username,

        email:req.body.email,

        password:req.body.password

    })

    user.save((err,doc)=>{

        if(err)

        {

            console.log("not matched")

            res.redirect("/signup")

        }else{

            req.session.user=doc

            console.log("matched")

            res.redirect("/dashboard")

        }

    })

})

app.get("/dashboard",(req,res)=>{

    if(req.session.user && req.cookies.user\_id){

        res.sendFile(\_\_dirname+"/html/dashboard.html")

    }else{

        res.redirect("/login")

    }

})

app.use(function(req,res,next){

    res.sendFile(\_\_dirname+"/html/login.html")

})

app.get("/logout",(req,res)=>{

    if(req.session.user && req.cookies.user\_id){

        res.clearCookie("user\_id")

        res.redirect("/")

    }else{

        res.redirect("/login")

    }

})

app.listen(app.get('port'),()=>

console.log(`Application running on port no: ${app.get('port')}`));

**User.js**

const mongoose=require('mongoose');

const bcrypt=require('bcrypt');

// const passport =require('passport');

mongoose.connect("mongodb://127.0.0.1:27017/loginDemo",{

    useNewUrlParser:true,

    useUnifiedTopology:true,

    useCreateIndex:true

})

const userSchema = mongoose.Schema({

   username:String,

   email:String,

   password:String

})

userSchema.pre("save",function(next){

    if(!this.isModified("password")){

        return next();

    }

    this.password=bcrypt.hashSync(this.password,12)

    next()

})

userSchema.methods.comparePassword = async function(plaintext,callback){

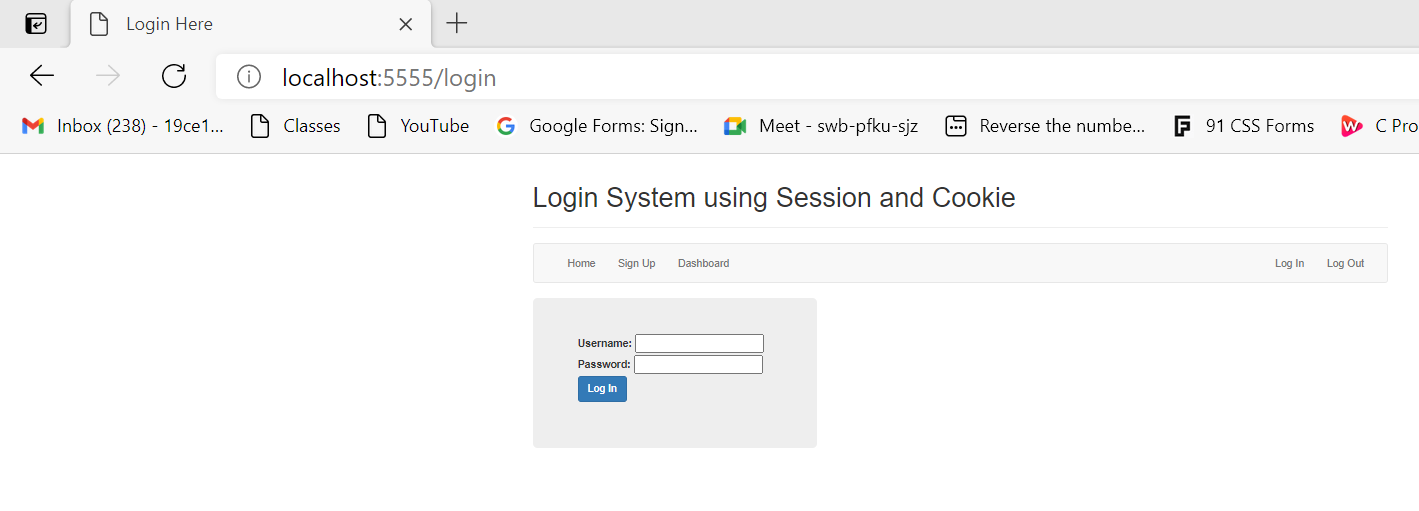
    return await bcrypt.compare(plaintext, this.password);

}

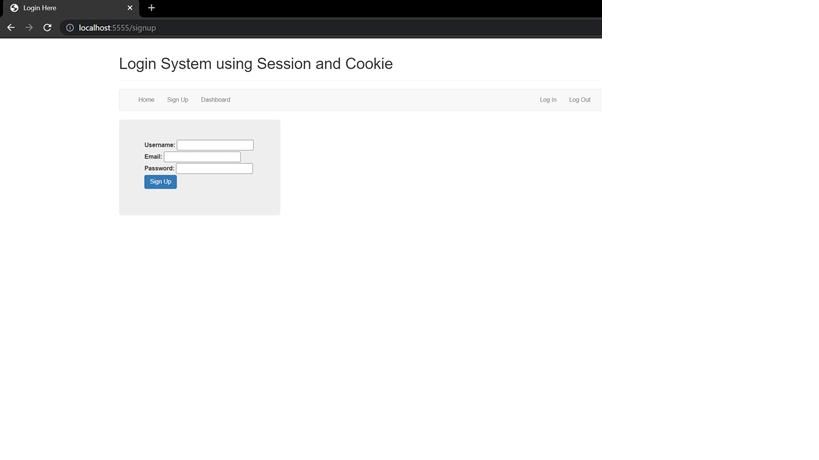
const userModel = mongoose.model("signin",userSchema)

module.exports=userModel

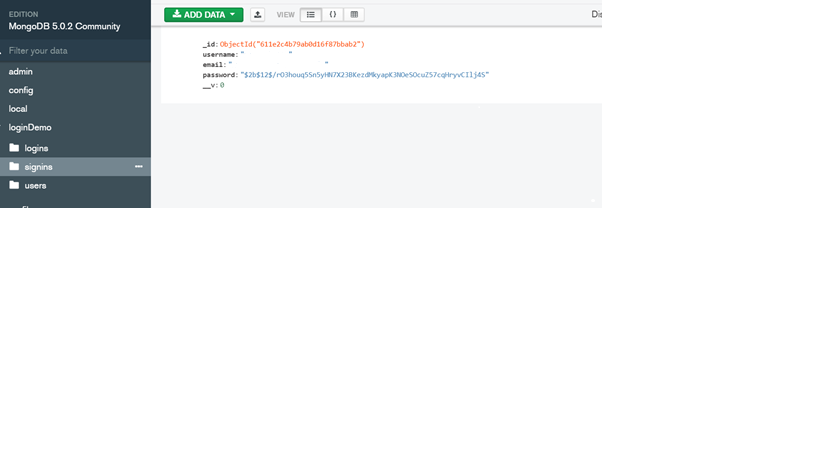
**login page:**

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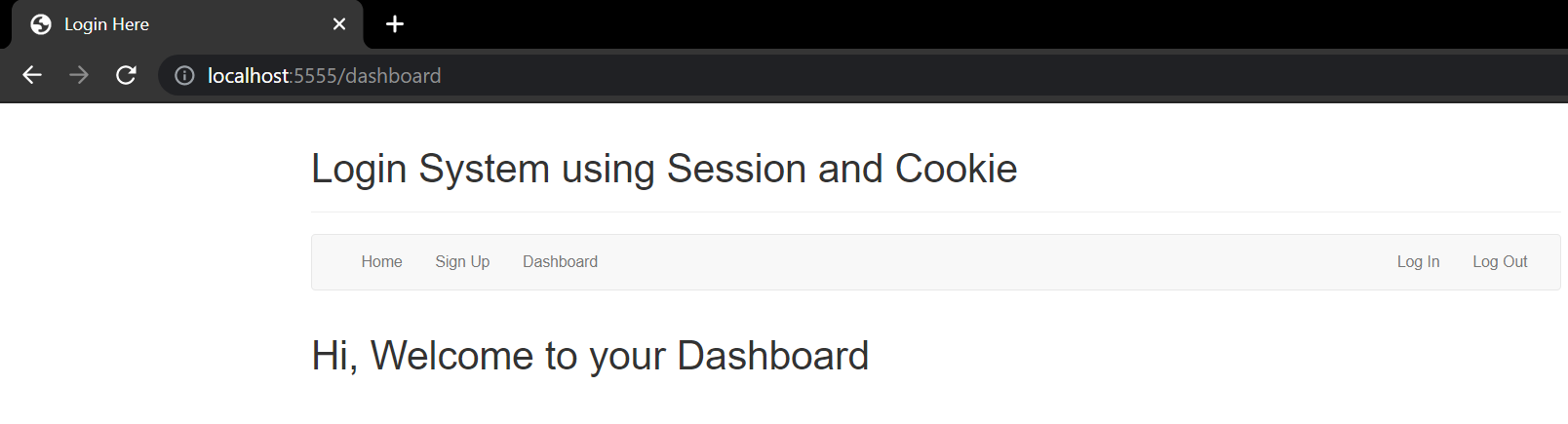
**Signup page:**

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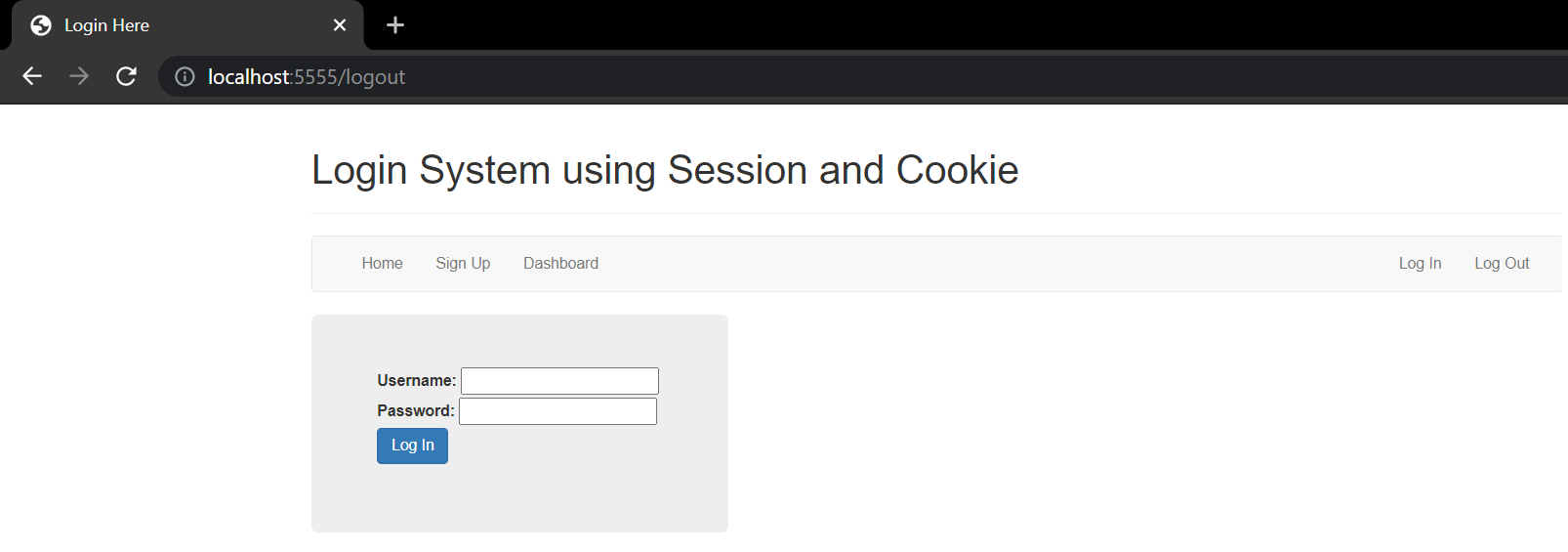
**Data store in MongoDB:-**

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**After dashboard page:-**

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**Logout**

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