PRACTICAL-4

<u>AIM:</u> Basic Login System using mongodb as a database and express,body-Parser,cookie and session

CODE:

Model/User.js

```
const mongoose = require('mongoose')
const bcrpyt = require('bcrypt')
mongoose.connect("mongodb://localhost:27017/LoginDemo",{
    useNewUrlParser:true,
    useUnifiedTopology:true,
    useCreateIndex:true
const userSchema=mongoose.Schema({
    username:{
        type:String,
        unique:true,
        required:true
    email:{
        type:String,
        unique:true,
        required:true
    password:{
        type:String,
        required:true
userSchema.pre("save",function(next){
    if(!this.isModified("password")){
        return next();
    this.password=bcrpyt.hashSync(this.password,12)
    next()
userSchema.methods.comparePassword=function(plaintext,callback){
    return callback(null,bcrpyt.compareSync(plaintext,this.password))
const userModel=mongoose.model("LoginUSer", userSchema) //name of collections
module.exports=userModel
```

• App.js

```
const express = require('express')
const bodyParse = require('body-parser')
const cookieParser = require('cookie-parser')
const session = require('express-session')

// database
var User=require("./Model/User")
var app = express();

app.set('port',5555);

// For lower version
// app.use(bodyParser.urlencoded({
```

```
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("/dashboard")
       next()
app.get('/',sessionChecker,(req,res)=>{
   res.redirect("/login")
app.route("/login")
.get(sessionChecker,(req,res)=>{
    res.sendFile(__dirname+"/public/login.html")
.post(async(req,res)=>{
    var username = req.body.username,
    password = req.body.password
        var user=await User.findOne({username:username}).exec(); //Select username where loginuser='Nikita'
        if(!user){
            res.send("User doesn't exist")
            res.redirect("/login")
            user.comparePassword(password,(error,match)=>{
                    res.send("User exists but password doesn't matched");
                    res.redirect("/login")
                res.send("Login Successfully");
            req.session.use=user;
            res.redirect("/dashboard")
    } catch(error){
       console.log(error);
app.route("/signup")
.get(sessionChecker,(req,res)=>{
    res.sendFile(__dirname+"/public/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(err);
            res.redirect("/signup")
            req.session.user=doc
            res.redirect("/dashboard")
app.get("/dashboard",(req,res)=>{
    if(req.session.user && req.cookies.user_id){
        res.sendFile(__dirname+"/public/dashboard.html")
        res.redirect("/login")
})
app.get("/logout",(req,res)=>{
    if(req.session.user && req.cookies.user_id){
       res.clearCookie("user_id")
       res.redirect("/")
        res.redirect("/login")
app.use(function(req,res,next){
    res.status(404).send("Sorry can't found the resources you want")
app.listen(app.get('port'),()=>
    console.log(`Login Demo running on port no: ${app.get('port')}`)
```

dashboard.html

```
DOCTYPE html>
<html lang="en">
  <meta charset="UTF-8">
   <meta http-equiv="X-UA-Compatible" content="IE=edge">
   <meta name="viewport" content="width=device-width, initial-scale=1.0">
   <title>Login Here</title>
  <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/css/bootstrap.min.css">
  <div class="page-header">
      <h1>Basic Login System</h1>
   <nav class="navbar navbar-default">
          <div class="collapse navbar-collapse" id="bs-example-navbar-collapse-1">
                 <a href="/">Home</a>
                 <a href="/signup">Sign Up</a>
                 <a href="/dashboard">Dashboard</a>
             <a href="/login">Log In</a>
                 <a href="/logout">Log Out</a>
div class="container row">
```

```
<h1>Hi,Welcome to your Dashboard</h1>
</div>
</body>
</html>
```

Login.html

```
!DOCTYPE html>
<html lang="en">
   <meta charset="UTF-8">
   <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
   <title>Login Here</title>
   <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/css/bootstrap.min.css">
   <div class="page-header">
      <h1>Basic Login System</h1>
          <div class="collapse navbar-collapse" id="bs-example-navbar-collapse-1">
             <a href="/">Home</a>
                 <a href="/signup">Sign Up</a>
                 <a href="/dashboard">Dashboard</a>
              <a href="/login">Log In</a>
                 <a href="/logout">Log Out</a>
   <div class="container row">
      <div class="jumbotron col-sm-4 pull-center">
          <form action="/login" method="POST">
                 <label>Username:</label>
                 <input class="form-control" required type="text" name="username"/>
             <div class="form-group">
                 <label>Password:</label>
                 <input class="form-control" required type="password" name="password"/>
              <div class="form-group">
                 <input class="btn btn-primary" type="submit" value="Log In"/>
```

• Signup.html

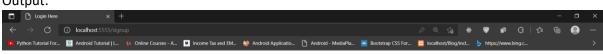
```
<title>Login Here</title>
  <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/css/bootstrap.min.css">
body class="container">
  <div class="page-header">
      <h1>Basic Login System</h1>
      <div class="container-fluid">
          <div class="collapse navbar-collapse" id="bs-example-navbar-collapse-1">
             <a href="/">Home</a>
                 <a href="/signup">Sign Up</a>
                 <a href="/dashboard">Dashboard</a>
             <a href="/login">Log In</a>
                 <a href="/logout">Log Out</a>
  <div class="container row">
      <div class="jumbotron col-sm-4 pull-center">
         <form action="/signup" method="POST">
             <div class="form-group"</pre>
                 <label>Username:</label>
                 <input class="form-control" required type="text" name="username"/>
             <div class="form-group">
                 <label>Email:</label>
                 <input class="form-control" required type="email" name="email"/>
             <div class="form-group">
                 <label>Password:</label>
                 <input class="form-control" required type="password" name="password"/>
             <div class="form-group">
                 <input class="btn btn-primary" type="submit" value="Signup"/>
```

• Package.json

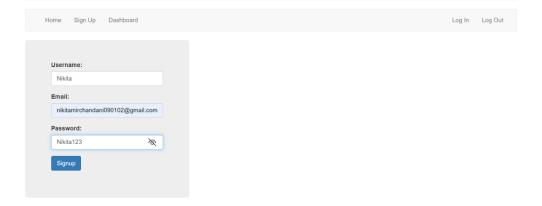
```
{
  "name": "LoginSignupDemo",
  "version": "1.0.0",
  "description": "",
  "main": "index.js",
  "scripts": {
      "start": "nodemon app.js"
  },
  "keywords": [],
  "author": "",
  "license": "ISC",
  "dependencies": {
      "bcrypt": "^5.0.1",
      "body-parser": "^1.19.0",
      "cookie-parser": "^1.4.5",
      "express": "^4.17.1",
      "express-session": "^1.17.2",
      "mongoose": "^5.13.7",
      "nodemon": "^2.0.12"
  }
}
```

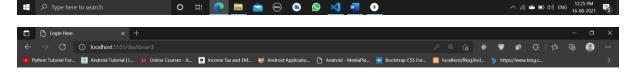
[19CE076] CE377: AWT

Output:

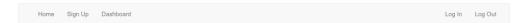


Basic Login System





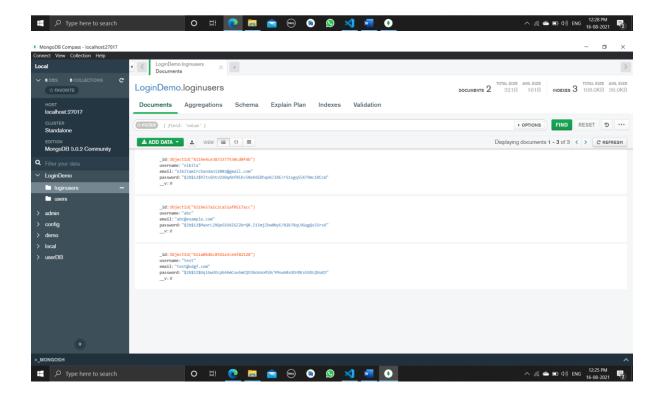
Basic Login System



Hi, Welcome to your Dashboard

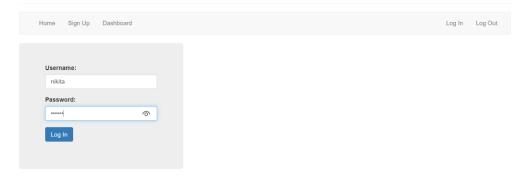


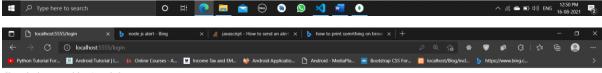






Basic Login System





User exists but password doesn't matched



