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Roll No:-62

Subject :- Application Development Using Full Stack(701)

Assignment - 2

Q1.

Upload.html:-

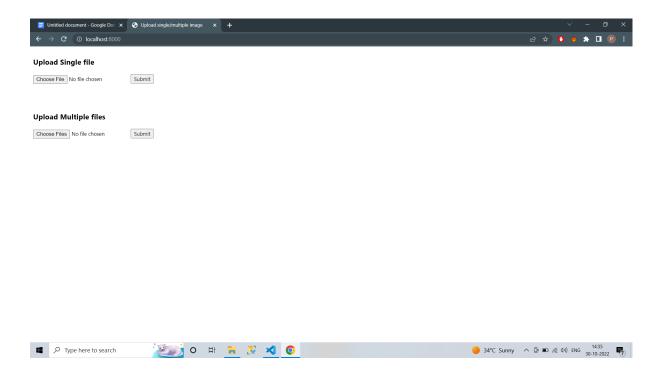
```
Chtml lang="en">
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
initial-scale=1.0">
    <title>Upload single/multiple image</title>
            font-family: 'Segoe UI', Tahoma, Geneva, Verdana,
sans-serif
            display: flex;
            flex-direction: column;
            justify-content: space-between;
            height: 30vh;
        <div class="single-upload">
                <h3>Upload Single file</h3>
            <form action="/upload single" method="post"</pre>
enctype="multipart/form-data">
                <input type="file" name="userFile" id="">
```

Index.Js

```
filename: (req, file, callback) => {
        callback (null,
 ${file.fieldname} ${Date.now()}${path.extname(file.originalname)}`)
})
const acceptedTypes = ["image/jpeg", "image/jpg", "image/png",
"image/svg", "image/gif"]
var upload = multer({
   storage: Storage, fileFilter: (req, file, callback) => {
        if (acceptedTypes.includes(file.mimetype)) {
            callback(null, true)
            return callback(`only ${acceptedTypes.toString(',')} format
allowed`)
})
app.post('/upload single', upload.single('userFile'), (req, res) => {
})
app.post('/upload multiple', upload.array('userFiles', 4), (req, res)
   return res.send('files uploaded successfully.');
app.get('/', (req, res) => {
   return res.sendFile( dirname + '/views/upload.html');
app.use(function (err, req, res, next) {
   if (err instanceof multer.MulterError) {
       console.log("ERRRR");
       res.status(500).send("file upload err " + err.message);
       next(err);
```

```
app.listen(PORT, () => {
   console.log(`app listening on http://localhost:${PORT}`)
});
```

OutPut:-







Q2.

Home.html

Login.html

```
<html lang="en">
   <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
initial-scale=1.0">
    <title>Log In Page</title>
           margin-bottom: 2rem;
           margin-top: 2rem;
        .flex-center {
           display: flex;
            justify-content: center;
            flex-direction: column;
            align-items: center;
            font-size: 1.2rem;
   <div class="container flex-center">
       <div class="header">
            <h3>Log In</h3>
        <div class="form-container mt-2 ">
            <form class="flex-center" action="/login" method="post">
                <div class="username mb-2">
                    <input type="text" placeholder="enter username"</pre>
name="username" required>
```

Session-data:-

```
{"cookie":{"originalMaxAge":null,"expires":null,"httpOnly":true,"path":
"/"},"loggedIn":true,"username":"Harsh","__lastAccess":1667027601569}

{"cookie":{"originalMaxAge":null,"expires":null,"httpOnly":true,"path":
"/"},"loggedIn":true,"username":"harsh","__lastAccess":1666194736363}
```

Index.js

```
const express = require('express')
const app = express()
const session = require('express-session')
const path = require('path')
const FileStore = require('session-file-store')(session)

const PORT = 8000
app.use(express.static('public'))
app.use(express.urlencoded({ extended: false }))

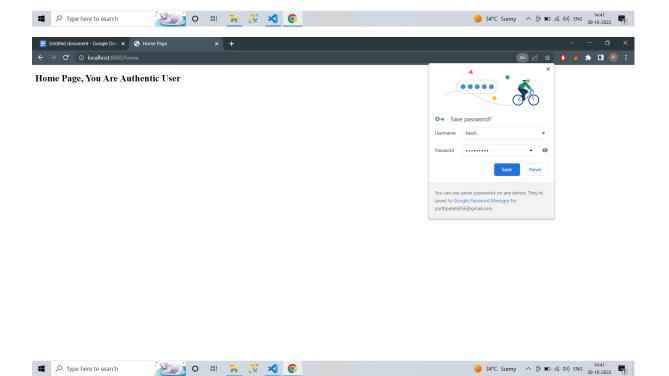
app.use(session({
    secret: 'secret',
    resave: false,
    saveUninitialized: false,
    store: new FileStore({ path: './session-data' })
}))

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

```
res.sendFile( dirname + '/public/login.html')
})
app.post('/login', (req, res) => {
    var username = req.body.username;
    var password = req.body.password;
    if (username && password) {
we store data in session
       req.session.loggedIn = true;
        req.session.username = username
        console.log(req.body)
        return res.redirect('/home')
        return res.send('Please Enter Username And Password!')
})
app.get('/home', (req, res) => {
    if (req.session.loggedIn) {
        console.log('logged in')
        res.sendFile( dirname + '/public/home.html')
        console.log('not logged in')
        res.sendFile( dirname + '/public/login.html')
app.listen(PORT, () => {
    console.log(`server listening on http://localhost:${PORT}`)
```

OutPut:-





Q4.

Index.js

```
const express = require('express')
const app = express()
const PORT = 8000
const database = require('./db/database')
const student = require('./routes/student')
require('dotenv').config()
```

```
const jwt = require('jsonwebtoken')
const cookieParser = require('cookie-parser')
const accessTokenSecret = process.env.TOKEN SECRET;
const studentModel = require('./models/student')
const verifyToken = require('./middleware/token')
app.use(cookieParser())
app.set('view engine', 'ejs')
app.use(express.json())
app.use(express.urlencoded({ extended: true }))
app.use(express.static( dirname + '/public'));
app.use('/student', student)
app.get('/', (req, res) => {
   const token = req.cookies.token
       if (jwt.verify(token, process.env.TOKEN SECRET)) {
            return res.redirect('/student')
            return res.status(401).end('Unauthorized access');
       return res.render('login')
app.post('/login', async (req, res) => {
   let { username, password } = req.body
   if (username && password) {
            let result = await studentModel.find({ name: username,
password: password })
            if (result.length === 1) {
                const accessToken = jwt.sign({ name: username,
password: password }, accessTokenSecret)
                res.cookie('token', accessToken, { httpOnly: true });
```

Database.js

```
var mongoose = require('mongoose');

//database config
const server = "127.0.0.1:27017"
const Database = "studentDB"

class database {
    constructor() {
        this._connect()
    }
    async _connect() {
        try {
            await mongoose.connect(`mongodb://${server}/${Database}`)
            console.log(`database connection successfull`)
        } catch (error) {
            console.error('Database connection error: ' + error);
```

```
}
}
module.exports = new database()
```

Token.js

Student.js(Model)

```
const mongoose = require('mongoose')

const studentSchema = new mongoose.Schema({
   name: String,
   email: String,
   password: String,
   age: Number,
   gender: String,
```

```
city: String
})

module.exports = new mongoose.model('student', studentSchema,
'students')
```

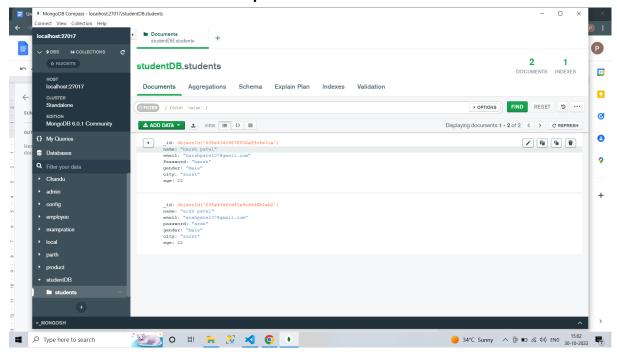
Student.js(Router)

```
const express = require('express');
const { verifyToken } = require('../middleware/token');
const student = express.Router();
const studentModel = require('../models/student')
student.use(verifyToken)
student.get('/add', (req, res) => {
    res.render('add');
student.post('/', async (req, res) => {
       const newStudent = req.body;
       const student = new studentModel({
            ...newStudent
        await student.save()
        res.redirect('/')
        res.send('There was problem creating students')
student.get('/:id', async (req, res) => {
        const student = await studentModel.findById(req.params.id)
        student ? res.render('view', { data: student }) :
res.render('index', { noDataError: 'No students found' })
        res.send('There was problem getting student')
student.get('/', async (req, res) => {
```

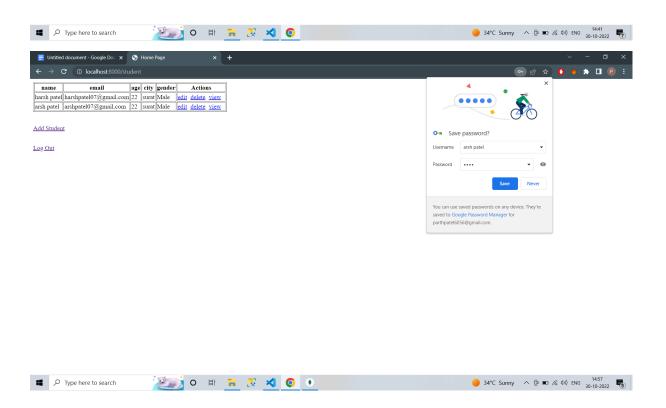
```
const students = await studentModel.find()
        students ? res.render('index', { data: students }) :
res.render('index', { noDataError: 'No students found' })
    } catch (error) {
        res.send('There was problem getting students')
student.get('/edit/:id', async (req, res) => {
        const student = await studentModel.findById(req.params.id)
        student ? res.render('update', { data: student }) :
res.render('index', { noDataError: 'student not found' })
    } catch (error) {
        res.send('There was problem getting student')
student.post('/edit/:id', async (req, res) => {
   console.log('student post /:id')
        const updatedStudent = req.body;
        const id = req.params.id;
       console.log('updated student: ', updatedStudent)
       delete updatedStudent[' id']
        await studentModel.findOneAndUpdate({ id: id: id },
updatedStudent)
        return res.redirect('/')
        return res.send('There was problem updating students')
student.get('/delete/:id', async (req, res) => {
        const student = await studentModel.findById(req.params.id)
        student ? res.render('delete', { data: student }) :
res.render('index', { noDataError: 'student not found' })
   } catch (error) {
```

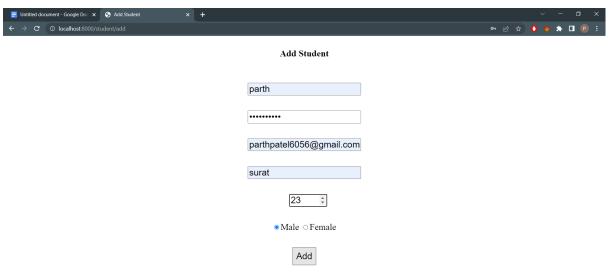
```
}
})
student.post('/delete', async (req, res) => {
   console.log('delete student request')
   try {
      const id = req.body._id
      console.log("id: ", id)
      await studentModel.findOneAndDelete({ _id: id })
      res.redirect('/')
   } catch (error) {
      console.log('Error: ', error)
      res.send('There was problem deleting students')
   }
})
module.exports = student
```

Output:-

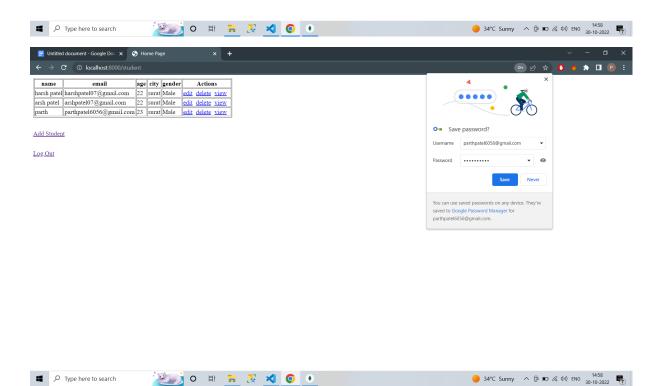








Log Out



Q5.

Index.js

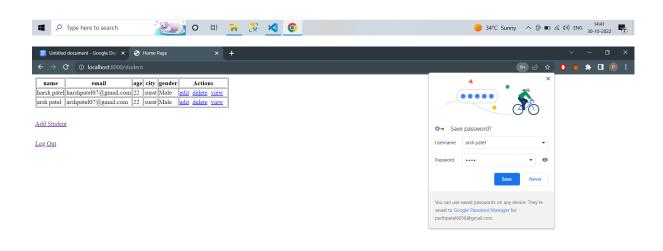
```
const express = require('express')
const app = express()
const cors = require('cors')
const { sign, verify } = require('./auth/authenticate')
require('dotenv').config()
```

```
require('./db/database')
const studentRouter = require('./routes/studentRoute')
const student = require('./models/studentModel')
const PORT = process.env.PORT
app.use(cors())
app.use(express.json())
app.use(express.urlencoded({ extended: true }))
app.get('/', (req, res) => {
    console.log('default response')
    res.send('DEFAULT RESPONSE FROM SERVER')
})
app.post('/login', async (req, res) => {
   let { username, password } = req.body
   username = username
   password = password
    if (username && password) {
        let response = await student.find({ name: username, password:
password });
        if (response.length === 1) {
            return res.json(sign({ username }))
            return res.status(401).json('Invalid username or password')
        return res.status(401).json('Please provide username and
password')
```

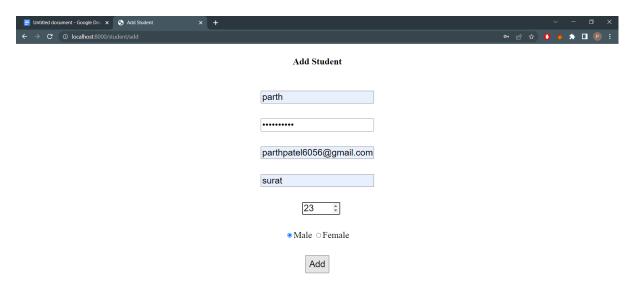
```
app.use('/get-token', sign)
app.use('/student', [verify], studentRouter)
app.listen(PORT, () => {
    console.log(`app listening on http://localhost:${PORT}`);
})
```

Output:-









Log Out

