Patel Anjali Jayeshbhai

7th Semester

Roll no: 17

Node.JS Practical (705)

Practical Assignment-2

Que-1

→Code:

Server.js

```
JS server.js CRUD - GetStart 🗘 view.html JS server.js Que1 X JS studentData.js JS studentRol 🐫 🛄 ...
   11 destination: function(req,res,cb){
12 cb(null,"uploads")
13 },
      {} package-lock.json
     {} package.json
                     14
15 | filename: function(req,res,cb){|
16 | cb(null,res.fieldname+ "-" + Date.now() + ".jpg")
                            cb(null,res.fieldname+ "-
      JS server.is
     {} package-lock.json
                     21 var upload = multer({
22 storage: storage
                     PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE
                                                                         1: powershell
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                     PS F:\anjali\Node.js\Assignment-2\Que1> node server.js
್ಟ್ > outline
   > TIMELINE
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    Type here to search
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```

```
const express = require('express');
const path = require('path');
const multer = require('multer');
const app = express();
const ejs = require('ejs');

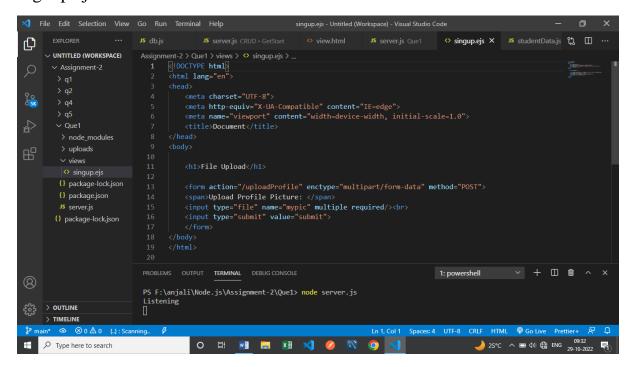
app.set("views",path.join(__dirname,"views"));
app.set("view engine","ejs");

var storage = multer.diskStorage({
    destination: function(req,res,cb){
```

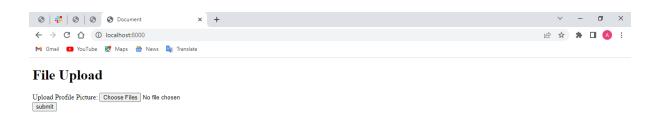
```
cb(null,"uploads")
  },
  filename: function(req,res,cb){
    cb(null,res.fieldname+ "-" + Date.now() + ".jpg")
});
const maxsize = 1;
                      //For 1kb
var upload = multer({
  storage: storage,
  limts: {
     fileSize: maxsize
  fileFilter: function(req,res,cb){
     var filetypes = /jpeg|jpg|png/;
     var mimetype = filetypes.test(res.mimetype);
     var extname = filetypes.test(path.extname(res.originalname).toLocaleLowe
rCase());
    if(mimetype && extname)
       return cb(null,true);
     cb("Error");
}).array("mypic",10);
app.get("/",function(req,res){
  res.render("singup");
})
app.post("/uploadProfile",function(req,res,next){
  upload(req,res,function(err){
    if(err){
      return res.send(err);
     else{
       res.send("Success")
```

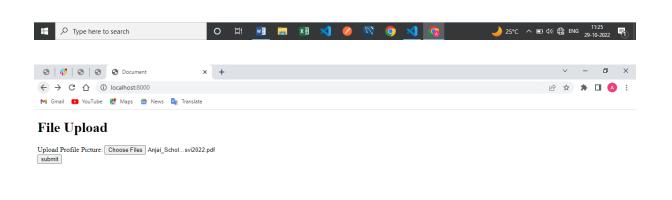
```
app.listen(8000,function(err){
  if(err)
  throw err
  console.log("Listening");
})
```

Signup.ejs

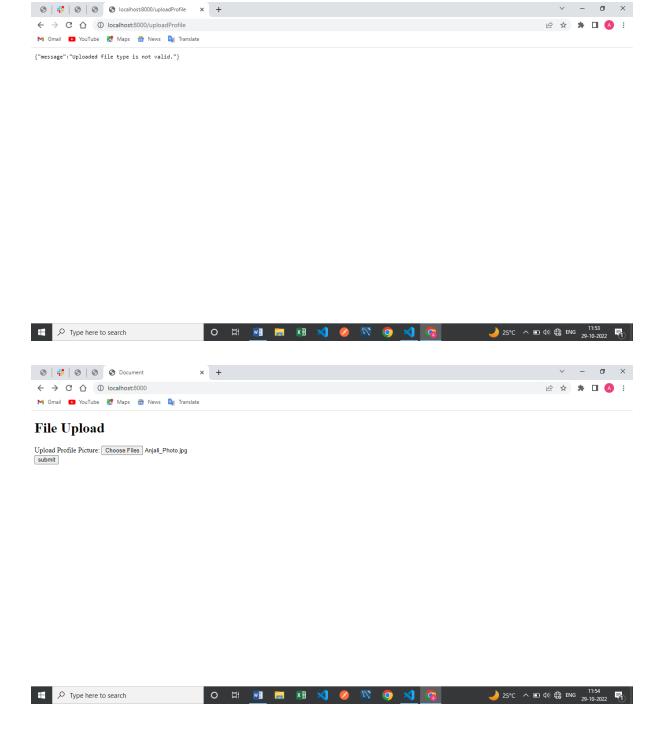


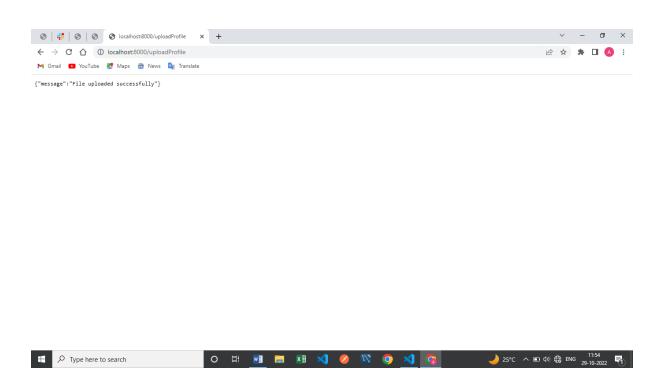
→ Output:











→ Code:

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) {
     //credential validation logic here, if credential matches than we store data i
n session
     req.session.loggedIn = true;
     req.session.username = username
     console.log(req.body)
     return res.redirect('/home')
   } else {
     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')
  } else {
     console.log('not logged in')
     res.sendFile(__dirname + '/public/login.html')
})
app.listen(PORT, () => \{
  console.log(`server listening`)
})
```

Login.html

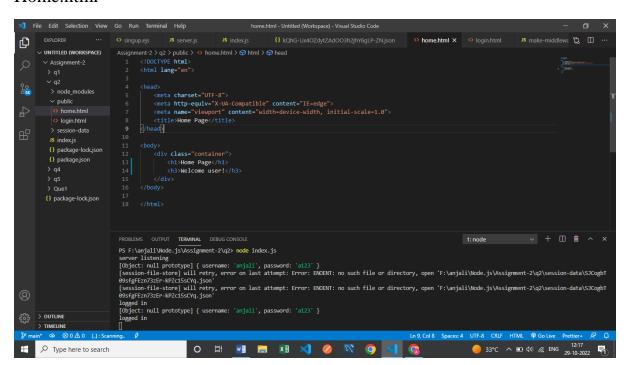
```
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→ Assignment-2

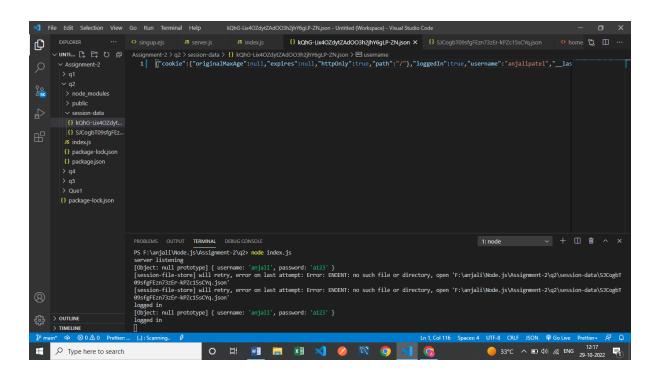
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◆ home.html
           > session-data
                                                             {} package-lock.json
          {} package-lock.json
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                                      PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE
                                                                                                                                                                           1: node
                                      PS F:\aniali\Node.is\Assignment-2\q2> node index.is
                                      PS F: vanjali Noce: js vassigment-2/q2> node inoex.js server listering [Object: null prototype] { username: 'anjali', password: 'a123' } [Gobject: null prototype] { username: 'anjali', password: 'a123' } [session-file-store] will retry, error on last attempt: Error: EMDENT: no such file or directory, open 'F:\anjali\Node.js\Assignment-2\q2\session-data\SJCogbT @95fgEzn73zF-kPZc15sCvq.json' [session-file-store] will retry, error on last attempt: Error: EMDENT: no such file or directory, open 'F:\anjali\Node.js\Assignment-2\q2\session-data\SJCogbT @95fgEzn73zF-kPZc15sCvq.json'
                                       logged in
[Object: null prototype] { username: 'anjali', password: 'a123' }
      > TIMELINE
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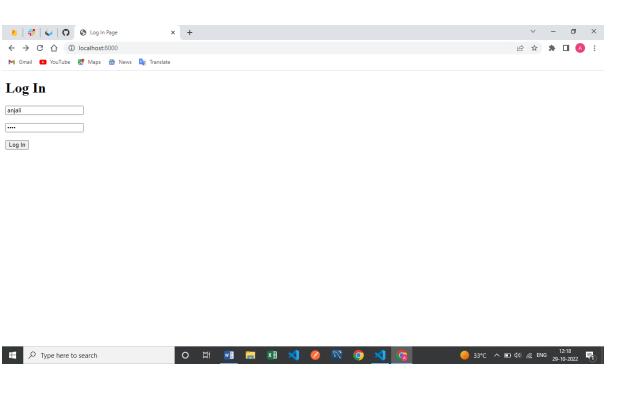
Home.html



→ Session Data:



→ Output:





Welcome user!



Que-4

→ Code:

Index.js

```
| File | Edit | Selection | New | Go | Run | Terminal | Help | Indexpir-United (Workspace) - Visual Studio Code | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
```

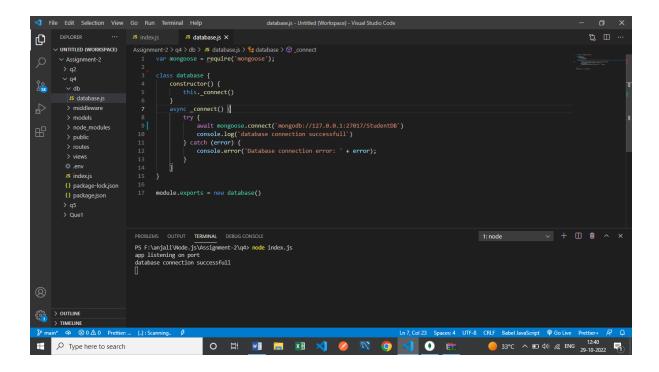
```
const express = require('express')
const app = express()
const PORT = 8000
const database = require('./db/database')
const student = require('./routes/student')
require('doteny').config()
const jwt = require('jsonwebtoken')
const cookieParser = require('cookie-parser')
const accessTokenSecret = process.env.TOKEN_SECRET;
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 (token) {
    //verify token
     if (jwt.verify(token, process.env.TOKEN_SECRET)) {
       return res.redirect('/student')
     } else {
       return res.status(401).end('Unauthorized access');
  else {
     //redirect to login
     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: passw
ord })
       if (result.length ===1) {
          const accessToken = jwt.sign({ name: username, password: password
}, accessTokenSecret)
          res.cookie('token', accessToken, { httpOnly: true });
          return res.redirect('/student')
          res.render('login', { errors: { validationError: 'Enter Valid Username
Or Password' } })
     } catch (error) {
       res.render('login', { errors: { validationError: 'There Was Problem While
Log In.' } })
   } else {
     res.render('login', { errors: { AllFieldsError: 'Please Enter Username And P
assword' } })
})
app.get('/logout', (req, res) => {
```

```
res.clearCookie('token')
res.render('login')
})

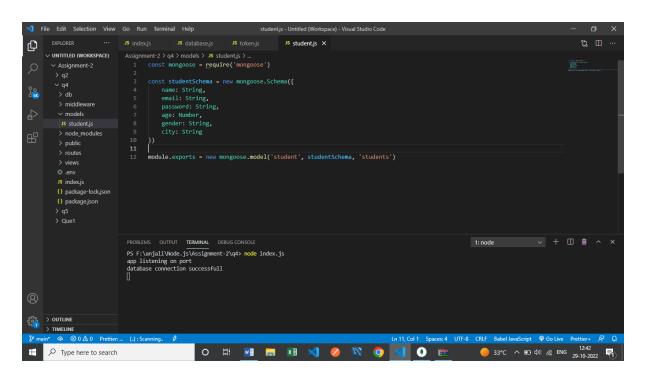
app.listen(PORT, () => {
   console.log(`app listening on port`)
})
```

Database.js



Token.js

Student.js (Model)

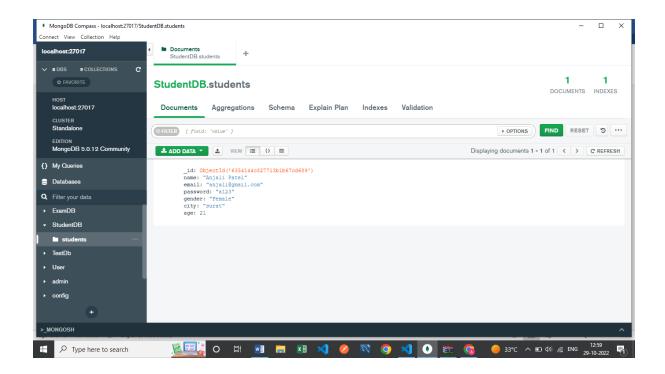


Student.js (Router)

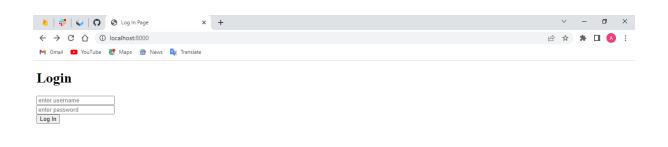
```
const express = require('express');
const { verifyToken } = require('../middleware/token');
const student = express.Router();
const studentModel = require('../models/student')
student.use(verifyToken)
//create
student.get('/add', (req, res) => {
  res.render('add');
})
student.post('/', async (req, res) => {
  try {
     const newStudent = req.body;
     const student = new studentModel({
       ...newStudent
     })
     await student.save()
     res.redirect('/')
   } catch (error) {
     res.send('There was problem creating students')
```

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

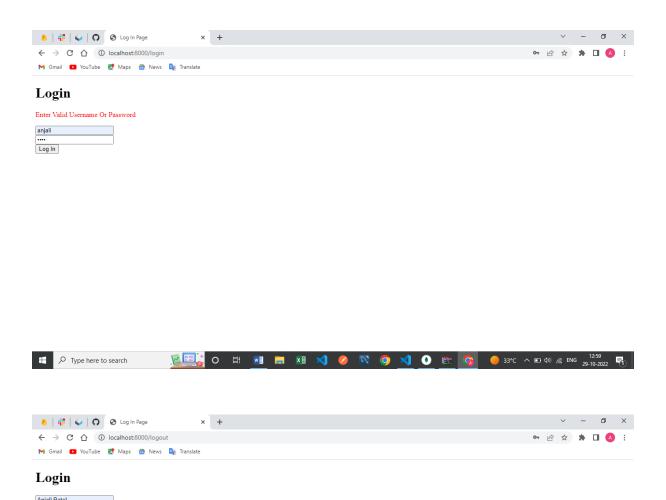
```
} catch (error) {
     return res.send('There was problem updating students')
})
student.get('/delete/:id', async (req, res) => {
     const student = await studentModel.findById(req.params.id)
     student ? res.render('delete', { data: student }) : res.render('index', { noData
Error: 'student not found' })
  } catch (error) {
     res.send('There was problem getting student')
})
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
```



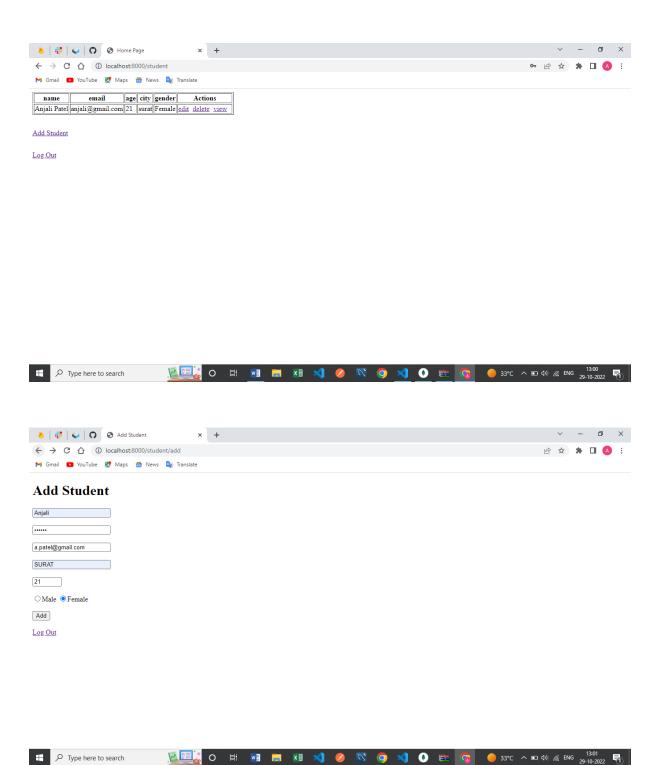
→ Output:

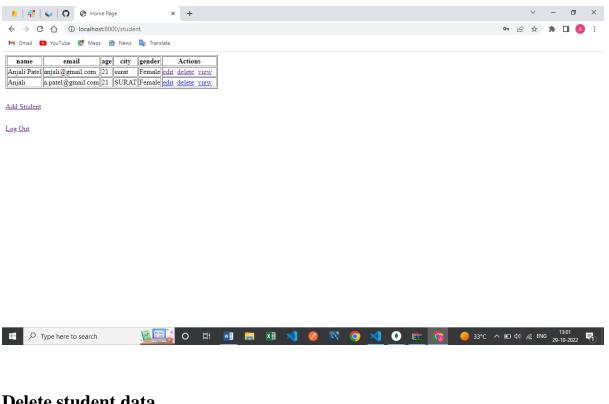




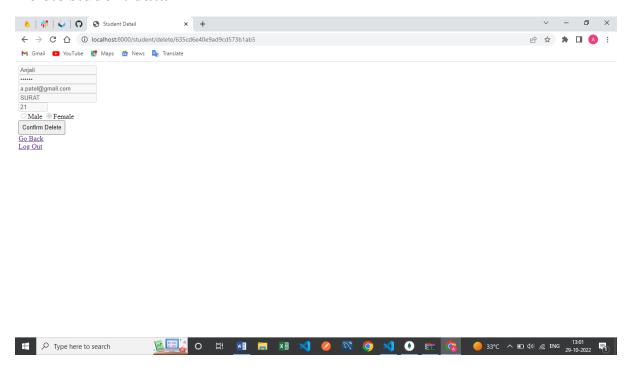




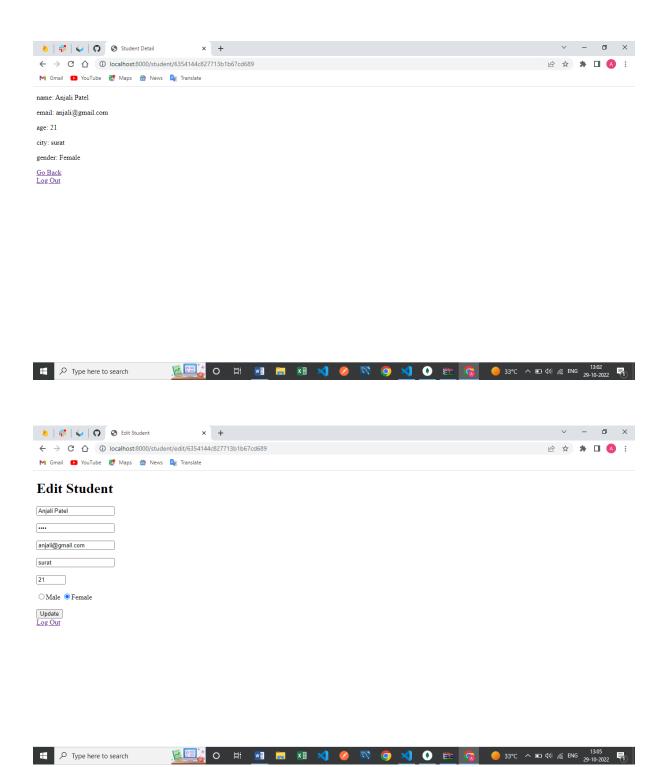


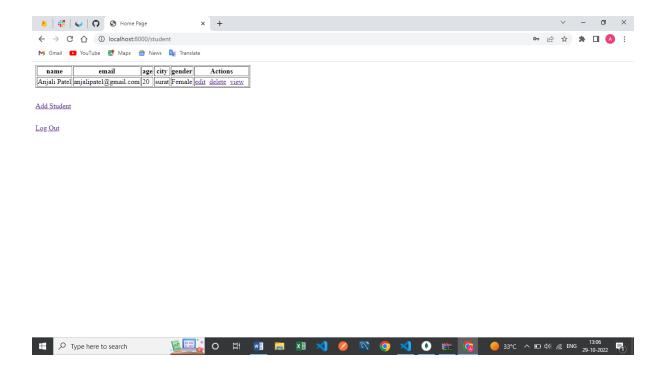


Delete student data



Display Student data





Que-5

→ Code:

Index.js

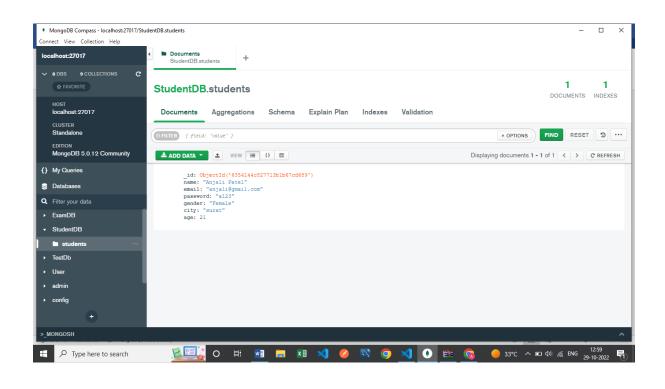
```
const express = require('express')
const app = express()
const cors = require('cors')
const { sign, verify } = require('./auth/authenticate')
require('dotenv').config()
//database
require('./db/database')

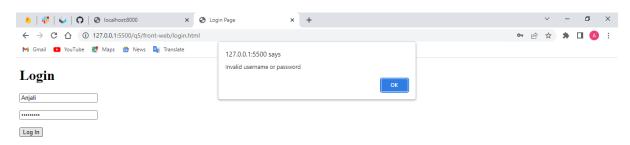
//router
const studentRouter = require('./routes/studentRoute')

//model
const student = require('./models/studentModel')

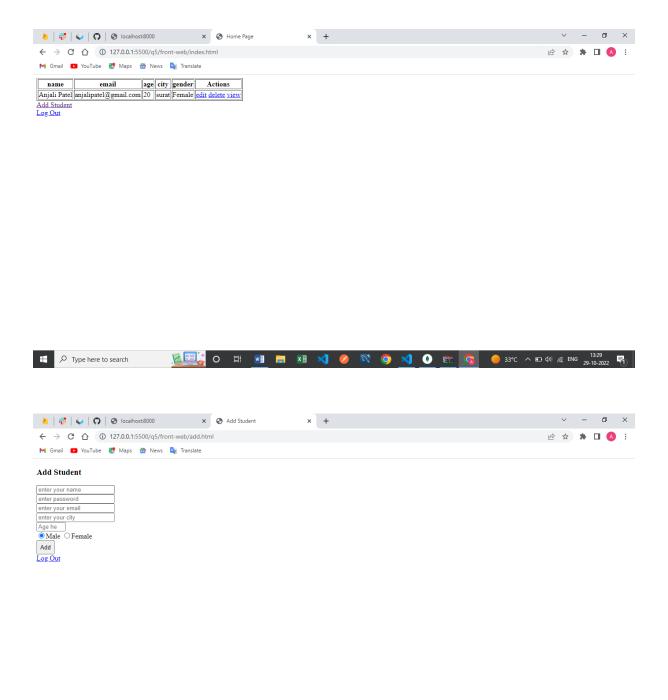
//config
```

```
const PORT = process.env.PORT
//cors
app.use(cors())
//body-parser and json for sending json and reading body
app.use(express.json())
app.use(express.urlencoded({ extended: true }))
app.get('/', (req, res) => \{
  console.log('default response')
  res.send('DEFAULT RESPONSE FROM SERVER')
})
//login request
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 }))
     } else {
       return res.status(401).json('Invalid username or password')
  } else {
     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 port`);
```









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