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ROLL NO. : 18

SEM : 7th

SUBJECT : FULL STACK – 705

ASSIGNMENT : 2

1) - Develop a user registration form and store its data in any database using Express. Form should also contain file upload (single, multiple) with validations.
- In a page list all the uploaded files and allow the user to download that file using Express. Develop route for file download.

User.js

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


const userSchema = new mongoose.Schema({
  username: { type: String, required: true },
  email: { type: String, required: true },
  files: [{ type: String }]
});


module.exports = mongoose.model('User', userSchema);
```

app.js

```
const express = require('express');
const mongoose = require('mongoose');
const multer = require('multer');
const path = require('path');


const app = express();
const PORT = process.env.PORT || 3000;
```

```
// Update this with your actual connection string
const mongoURI = 'mongodb://localhost:27017/upload';

mongoose.connect(mongoURI, { useNewUrlParser: true, useUnifiedTopology: true })
  .then(() => console.log('MongoDB connected!'))
  .catch(err => console.error('MongoDB connection error:', err));

// Middleware
app.use(express.urlencoded({ extended: true }));
app.use('/uploads', express.static('uploads')); // Serve uploaded files
app.set('view engine', 'ejs');

app.listen(PORT, () => {
  console.log(`Server is running on http://localhost:${PORT}`);
});
const storage = multer.diskStorage({
  destination: (req, file, cb) => {
    cb(null, 'uploads/');
  },
  filename: (req, file, cb) => {
    cb(null, Date.now() + path.extname(file.originalname)); // Appending extension
  }
});

const upload = multer({
  storage: storage,
  limits: { fileSize: 1 * 1024 * 1024 }, // Limit file size to 1MB
  fileFilter: (req, file, cb) => {
    const filetypes = /jpeg|jpg|png|gif|pdf/;
```

```
        const mimetype = filetypes.test(file.mimetype);
        const extname = filetypes.test(path.extname(file.originalname).toLowerCase());
        if (mimetype && extname) {
            return cb(null, true);
        }
        cb("Error: File type not supported");
    }
});
const User = require('./User');

// Render registration form
app.get('/register', (req, res) => {
    res.render('register');
});

// Handle user registration
app.post('/register', upload.array('files'), async (req, res) => {
    const { username, email } = req.body;
    const files = req.files.map(file => file.filename);

    const user = new User({ username, email, files });
    await user.save();
    res.redirect('/files');
});

// List uploaded files
app.get('/files', async (req, res) => {
    const users = await User.find();
    res.render('files', { users });
```

```
});

// Download file
app.get('/files/download/:filename', (req, res) => {
  const file = path.join(__dirname, 'uploads', req.params.filename);
  res.download(file);
});
```

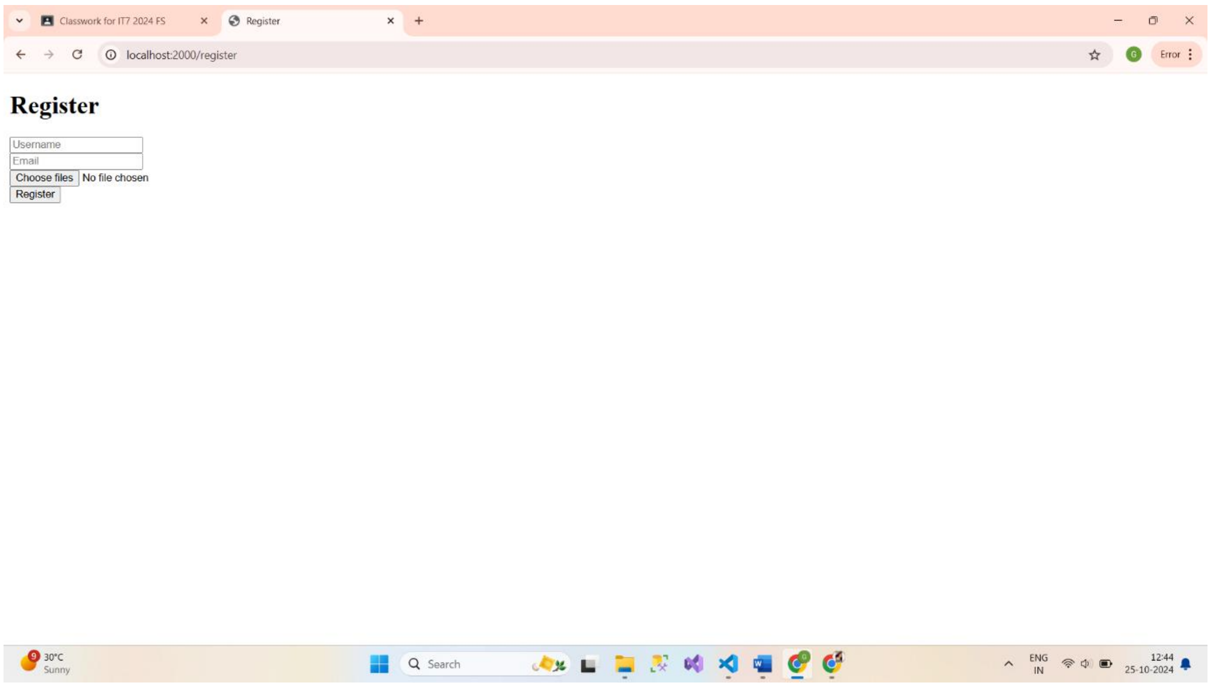
files.ejs

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <title>Uploaded Files</title>
</head>
<body>
  <h1>Uploaded Files</h1>
  <ul>
    <% users.forEach(user => { %>
      <li><strong><%= user.username %></strong> (<%= user.email %>):
        <% user.files.forEach(file => { %>
          <a href="/files/download/<%= file %>"><%= file %></a>
        <% }) %>
      </li>
    <% }) %>
  </ul>
</body>
</html>
```

Register.ejs

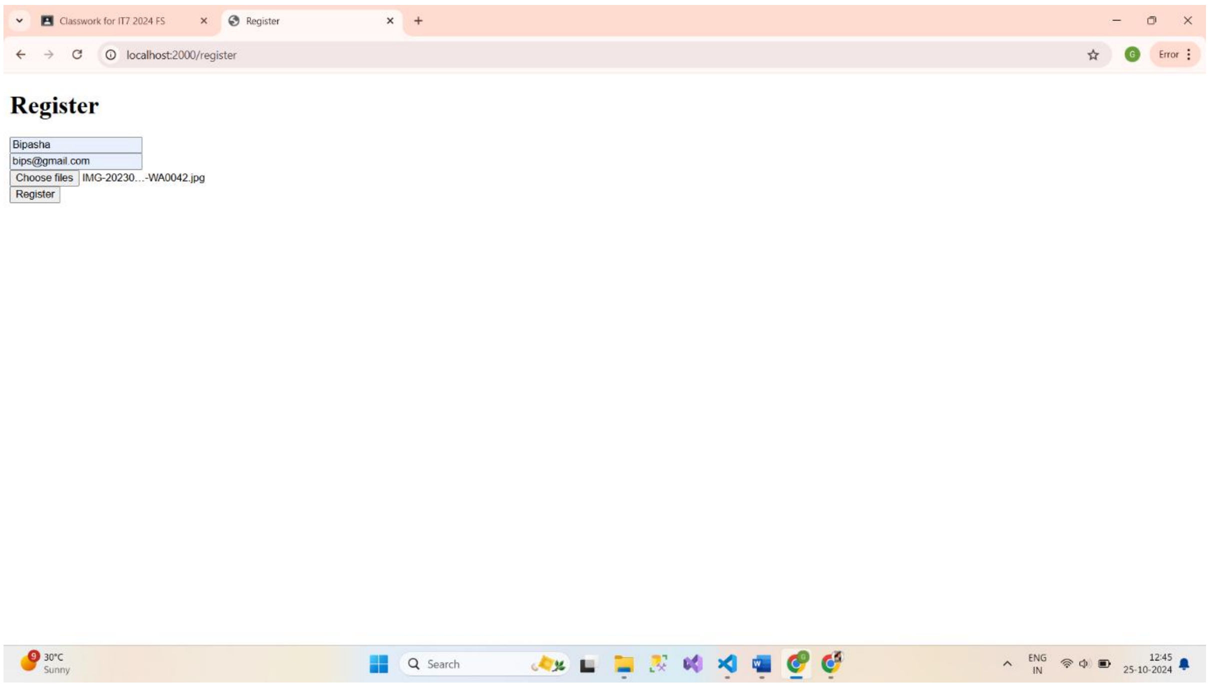
```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <title>Register</title>
</head>
<body>
  <h1>Register</h1>
  <form action="/register" method="POST" enctype="multipart/form-data">
    <input type="text" name="username" placeholder="Username" required><br>
    <input type="email" name="email" placeholder="Email" required><br>
    <input type="file" name="files" multiple required><br>
    <button type="submit">Register</button>
  </form>
</body>
</html>
```

Output :-



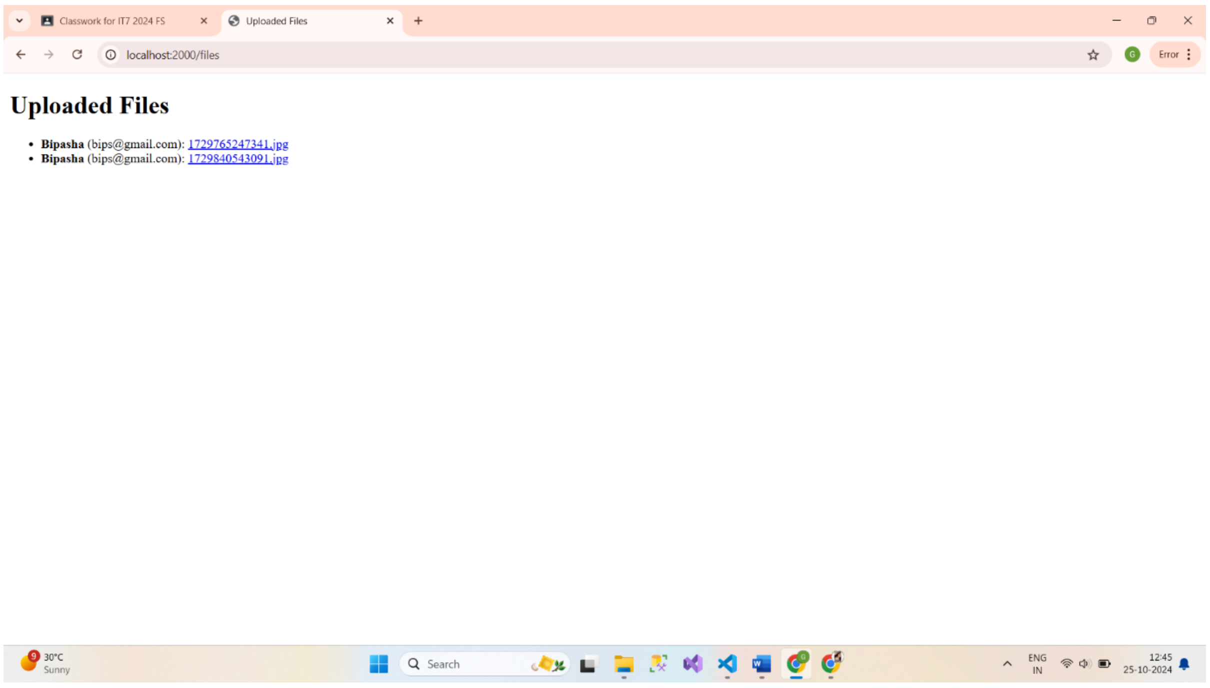
Register

Username
Email
Choose files No file chosen
Register



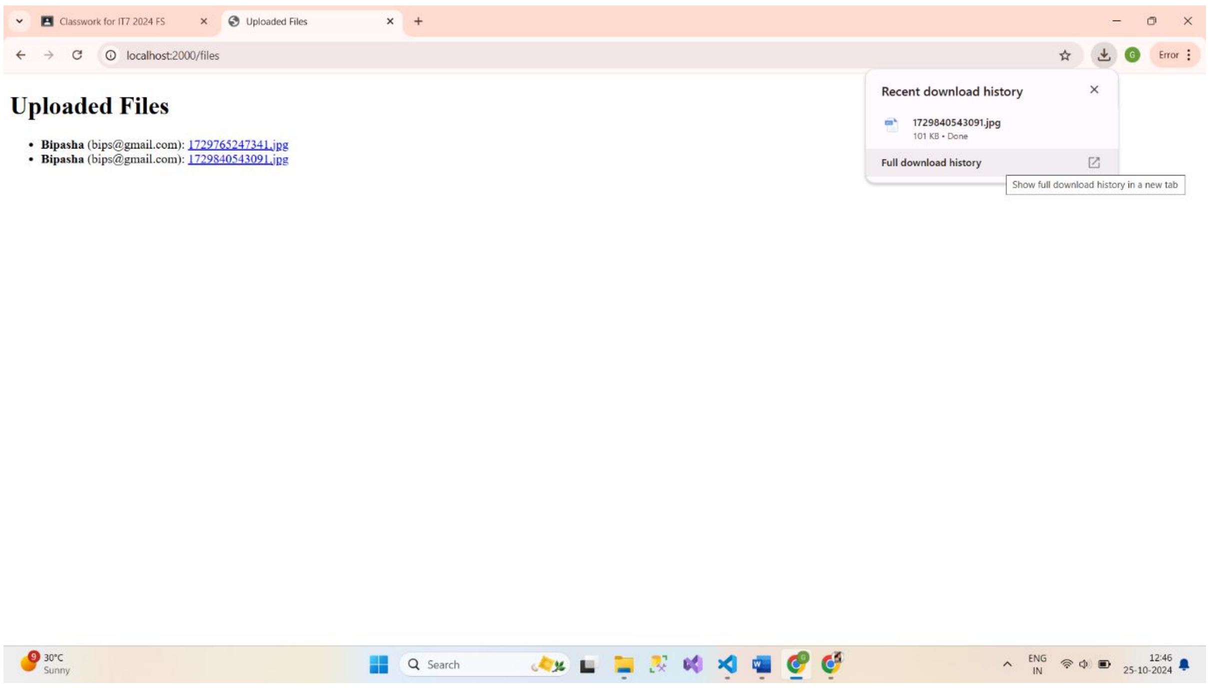
Register

Bipasha
bips@gmail.com
Choose files IMG-20230...-WA0042.jpg
Register


Classwork for IT7 2024 FS
Uploaded Files
localhost:2000/files

Uploaded Files

- **Bipasha** (bips@gmail.com): 1729765247341.jpg
- **Bipasha** (bips@gmail.com): 1729840543091.jpg


Classwork for IT7 2024 FS
Uploaded Files
localhost:2000/files

Uploaded Files

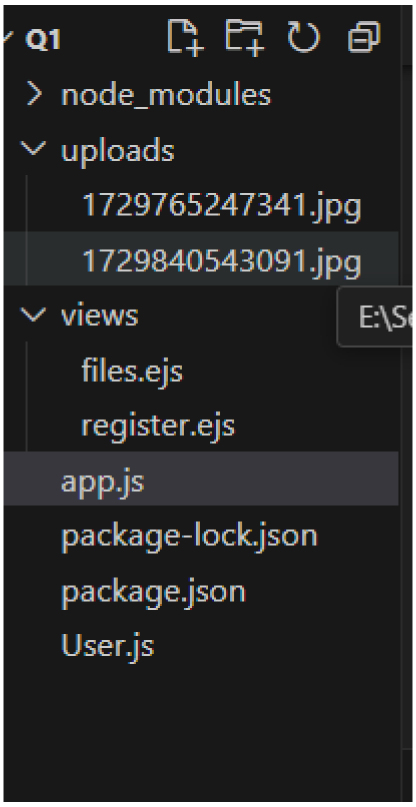
- **Bipasha** (bips@gmail.com): 1729765247341.jpg
- **Bipasha** (bips@gmail.com): 1729840543091.jpg

Recent download history

1729840543091.jpg
101 KB • Done

Full download history

Show full download history in a new tab



```
Q1
> node_modules
v uploads
    1729765247341.jpg
    1729840543091.jpg
v views
    files.ejs
    register.ejs
  app.js
  package-lock.json
  package.json
  User.js
```

2) Express Login application with file session store.

app.js

```
const express = require('express');

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

const flash = require('connect-flash');

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

const path = require('path');


const app = express();

const PORT = process.env.PORT || 3000;


// Simple in-memory user store for demonstration purposes

const users = [{ username: 'Bipasha', password: 'BIPS' }];


// Setup session

app.use(session({

   secret: 'secret_key', // Replace with a strong secret in production

   resave: false,

   saveUninitialized: true,

   cookie: { maxAge: 60000 } // 1 minute

}));


// Flash messages middleware

app.use(flash());


// Middleware

app.use(bodyParser.urlencoded({ extended: true }));
app.set('view engine', 'ejs');
app.use(express.static(path.join(__dirname, 'public'))); // Serve static files

// Render login form
app.get('/login', (req, res) => {
  res.render('login', { messages: req.flash('error') });
});

// Handle login
app.post('/login', (req, res) => {
  const { username, password } = req.body;

  // Check user credentials
  const user = users.find(u => u.username === username && u.password === password);
  if (user) {
    req.session.user = user;
    req.flash('success', 'Logged in successfully!');
    return res.redirect('/dashboard');
  }

  req.flash('error', 'Invalid username or password');
  res.redirect('/login');
});

// Render dashboard
app.get('/dashboard', (req, res) => {
  if (!req.session.user) {
    req.flash('error', 'Please log in first');
    return res.redirect('/login');
    }
    res.render('dashboard', { user: req.session.user });
});

// Logout
// Logout
app.get('/logout', (req, res) => {
    req.flash('success', 'Logged out successfully'); // Set flash message before destroying
session
    req.session.destroy(err => {
        if (err) {
            return res.redirect('/dashboard'); // Handle session destruction error
        }
        res.redirect('/login'); // Redirect to login after session is destroyed
    });
});

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

dashboard.ejs

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <title>Dashboard</title>
</head>
```

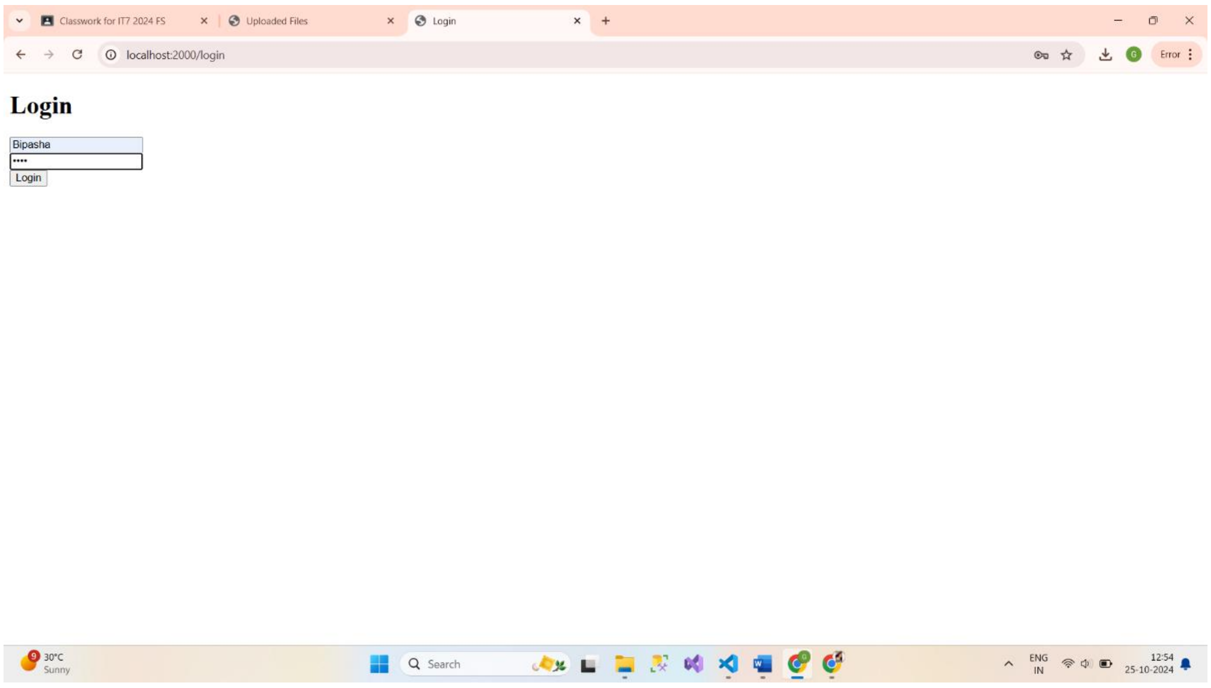
```
<body>
   <h1>Welcome, <%= user.username %></h1>
   <a href="/logout">Logout</a>
</body>
</html>
```

login.ejs

```
<!DOCTYPE html>
<html lang="en">
<head>
   <meta charset="UTF-8">
   <title>Login</title>
</head>
<body>
   <h1>Login</h1>
   <% if (messages.length) { %>
      <ul>
         <% messages.forEach(msg => { %>
            <li><%= msg %></li>
         <% }) %>
      </ul>
   <% } %>
   <form action="/login" method="POST">
      <input type="text" name="username" placeholder="Username" required><br>
      <input type="password" name="password" placeholder="Password" required><br>
      <button type="submit">Login</button>
   </form>
</body>
```

</html>

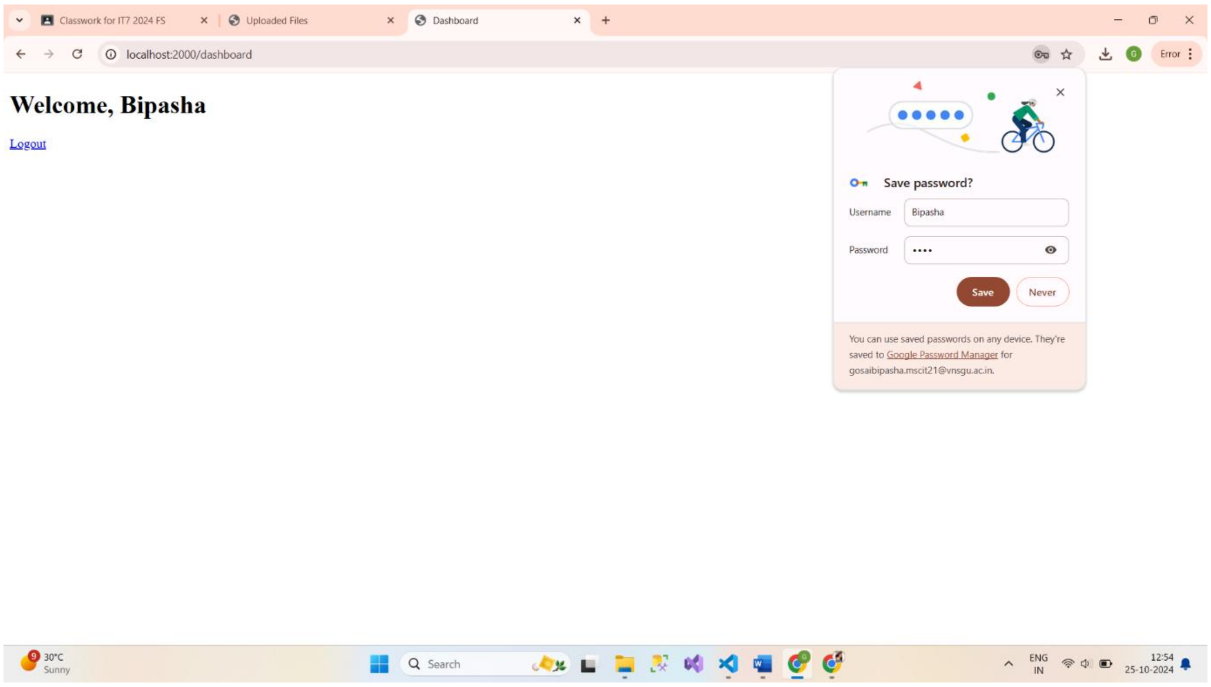
Output :-


Login

Bipasha

••••

Login


Welcome, Bipasha

Logout

Save password?

Username Bipasha

Password ••••

Save Never

You can use saved passwords on any device. They're saved to Google Password Manager for gosaibipasha.mscit21@vnsgu.ac.in.

3) Express Login application with redis session store.

app.js

```
const express = require('express');
const session = require('express-session');
const RedisStore = require('connect-redis').default; // Import Redis store
const flash = require('connect-flash');
const bodyParser = require('body-parser');
const redis = require('redis');
const path = require('path');

const app = express();
const PORT = process.env.PORT || 8000;

// Configure Redis client
// const redisClient = redis.createClient();
const redisClient = redis.createClient({
  host: '127.0.0.1', // Change if necessary
  port: 6379 // Change if necessary
});

redisClient.on('error', (err) => console.log('Redis Client Error', err));

// Simple in-memory user store for demonstration purposes
const users = [{ username: 'testuser', password: 'password123' }];

// Setup session with Redis store
app.use(session({
  store: new RedisStore({ client: redisClient }),
  secret: 'secret_key', // Replace with a strong secret in production
  resave: false,
  saveUninitialized: false,
  cookie: { maxAge: 60000 } // 1 minute
}));

// Flash messages middleware
app.use(flash());

// Middleware
app.use(bodyParser.urlencoded({ extended: true }));
app.set('view engine', 'ejs');
app.use(express.static(path.join(__dirname, 'public'))); // Serve static files

// Render login form
app.get('/login', (req, res) => {
  res.render('login', { messages: req.flash('error') });
});

// Handle login
app.post('/login', (req, res) => {
  const { username, password } = req.body;

  // Check user credentials
  const user = users.find(u => u.username === username && u.password === password);
  if (user) {
    req.session.user = user;
    req.flash('success', 'Logged in successfully!');
```

```
        return res.redirect('/dashboard');
    }

    req.flash('error', 'Invalid username or password');
    res.redirect('/login');
});

// Render dashboard
app.get('/dashboard', (req, res) => {
    if (!req.session.user) {
        req.flash('error', 'Please log in first');
        return res.redirect('/login');
    }
    res.render('dashboard', { user: req.session.user });
});

// Logout
app.get('/logout', (req, res) => {
    req.flash('success', 'Logged out successfully');
    req.session.destroy(err => {
        if (err) {
            return res.redirect('/dashboard');
        }
        res.redirect('/login');
    });
});

// Start the server
app.listen(PORT, () => {
  console.log(`Server is running on http://localhost:${PORT}`);
});

// Connect to Redis
(async () => {
  try {
    await redisClient.connect();
    console.log('Connected to Redis');
  } catch (err) {
    console.error('Redis Client Error', err);
  }
})();
```

dashboard.ejs

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <title>Dashboard</title>
</head>
<body>
  <h1>Welcome, <%= user.username %></h1>
  <a href="/logout">Logout</a>
</body>
</html>
```

login.ejs

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <title>Login</title>
</head>
<body>
  <h1>Login</h1>
  <% if (messages.length) { %>
    <ul>
      <% messages.forEach(msg => { %>
        <li><%= msg %></li>
      <% }) %>
    </ul>
  <% } %>
  <form action="/login" method="POST">
    <input type="text" name="username" placeholder="Username" required><br>
    <input type="password" name="password" placeholder="Password" required><br>
    <button type="submit">Login</button>
  </form>
</body>
</html>
```

4) Login with JWT, CRUD operations for students table with mongoose, express and any one
template engine, Logout.

server.js

```
const express = require('express');
const mongoose = require('mongoose');
const jwt = require('jsonwebtoken');
const bcrypt = require('bcryptjs');
const path = require('path');
const session = require('express-session');
const methodOverride = require('method-override');
const app = express();
const PORT = process.env.PORT || 3001;

// Middleware
app.use(express.json());
app.use(express.urlencoded({ extended: true }));
app.use(methodOverride('_method')); // For PUT and DELETE methods
app.set('view engine', 'ejs');

// Set views directory
app.set('views', path.join(__dirname, 'views'));
app.set('view engine', 'ejs');

// Session setup
app.use(session({
  secret: 'your_secret_key',
  resave: false,
    saveUninitialized: true,
}));

// Connect to MongoDB
mongoose.connect('mongodb://localhost:27017/studentDB', { useNewUrlParser: true,
useUnifiedTopology: true })
    .then(() => console.log('MongoDB connected'))
    .catch(err => console.error(err));

// Student Schema
const studentSchema = new mongoose.Schema({
    name: String,
    email: { type: String, unique: true },
    password: String
});

const Student = mongoose.model('Student', studentSchema);

// Middleware for JWT verification
const authenticateJWT = (req, res, next) => {
    const token = req.session.token;
    if (!token) return res.redirect('/'); // Redirect if not logged in

    jwt.verify(token, 'your_jwt_secret', (err, user) => {
        if (err) return res.redirect('/'); // Redirect if token is invalid
        req.user = user;
        next();
    });
};
```

```
// Routes
app.get('/', (req, res) => {
  res.render('index');
});

// Register
app.post('/register', async (req, res) => {
  const hashedPassword = await bcrypt.hash(req.body.password, 10);
  const newStudent = new Student({
    name: req.body.name,
    email: req.body.email,
    password: hashedPassword
  });

  try {
    await newStudent.save();
    res.status(201).send('Student registered');
  } catch (error) {
    res.status(400).send('Error registering student');
  }
});

// Login
app.post('/login', async (req, res) => {
  const student = await Student.findOne({ email: req.body.email });
  if (student && (await bcrypt.compare(req.body.password, student.password))) {
    const token = jwt.sign({ email: student.email }, 'your_jwt_secret', { expiresIn: '1h' });
    req.session.token = token;
    res.redirect('/students'); // Redirect to the students page
    } else {
        res.status(403).send('Invalid credentials');
    }
});

// Logout
app.post('/logout', (req, res) => {
    req.session.destroy(err => {
        if (err) return res.status(500).send('Could not log out');
        res.redirect('/');
    });
});

// View students
app.get('/students', authenticateJWT, async (req, res) => {
    try {
        const students = await Student.find();
        res.render('student', { students });  // Renders the student.ejs view
    } catch (error) {
        res.status(500).send('Error retrieving students');
    }
});
// Add student form
app.get('/students/new', authenticateJWT, (req, res) => {
    res.render('insert');
});

// Handle adding a new student
app.post('/students', authenticateJWT, async (req, res) => {
    const hashedPassword = await bcrypt.hash(req.body.password, 10);
    const newStudent = new Student({
        name: req.body.name,
        email: req.body.email,
        password: hashedPassword
    });

    try {
        await newStudent.save();
        res.redirect('/students');
    } catch (error) {
        res.status(400).send('Error creating student');
    }
});

// Update student form
app.get('/students/:id/edit', authenticateJWT, async (req, res) => {
    try {
        const student = await Student.findById(req.params.id);
        res.render('update', { student });
    } catch (error) {
        res.status(400).send('Error retrieving student');
    }
});

// Handle updating a student
app.put('/students/:id', authenticateJWT, async (req, res) => {
    const updateData = {
        name: req.body.name,
        email: req.body.email,
    };

    if (req.body.password) {
        updateData.password = await bcrypt.hash(req.body.password, 10);
    }

    try {
        await Student.findByIdAndUpdate(req.params.id, updateData);
        res.redirect('/students');
    } catch (error) {
        res.status(400).send('Error updating student');
    }
});

// Handle deleting a student
app.delete('/students/:id', authenticateJWT, async (req, res) => {
    try {
        await Student.findByIdAndDelete(req.params.id);
        res.redirect('/students');
    } catch (error) {
        res.status(400).send('Error deleting student');
    }
});

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

index.ejs

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Student Management System</title>
</head>
<body>
  <h1>Welcome to the Student Management System</h1>

  <!-- Login Form -->
  <h2>Login</h2>
  <form action="/login" method="POST">
    <label for="email">Email:</label>
    <input type="email" name="email" required>
    <label for="password">Password:</label>
    <input type="password" name="password" required>
    <button type="submit">Login</button>
  </form>

  <!-- Registration Form -->
  <h2>Register</h2>
  <form action="/register" method="POST">
    <label for="name">Name:</label>
    <input type="text" name="name" required>
    <label for="email">Email:</label>
    <input type="email" name="email" required>
```

```
        <label for="password">Password:</label>
        <input type="password" name="password" required>
        <button type="submit">Register</button>
    </form>
</body>
</html>
```

insert.ejs

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Add New Student</title>
</head>
<body>
    <h1>Add New Student</h1>
    <form action="/students" method="POST">
        <label for="name">Name:</label>
        <input type="text" name="name" required>
        <label for="email">Email:</label>
        <input type="email" name="email" required>
        <label for="password">Password:</label>
        <input type="password" name="password" required>
        <button type="submit">Add Student</button>
    </form>
    <a href="/students">Back to Students List</a>
```

```
</body>
</html>
```

student.ejs

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Student List</title>
</head>
<body>
  <h1>Student List</h1>
  <table border="1">
    <thead>
      <tr>
        <th>Name</th>
        <th>Email</th>
        <th>Actions</th>
      </tr>
    </thead>
    <tbody>
      <% students.forEach(student => { %>
        <tr>
          <td><%= student.name %></td>
          <td><%= student.email %></td>
          <td>
            <!-- Edit button -->
```

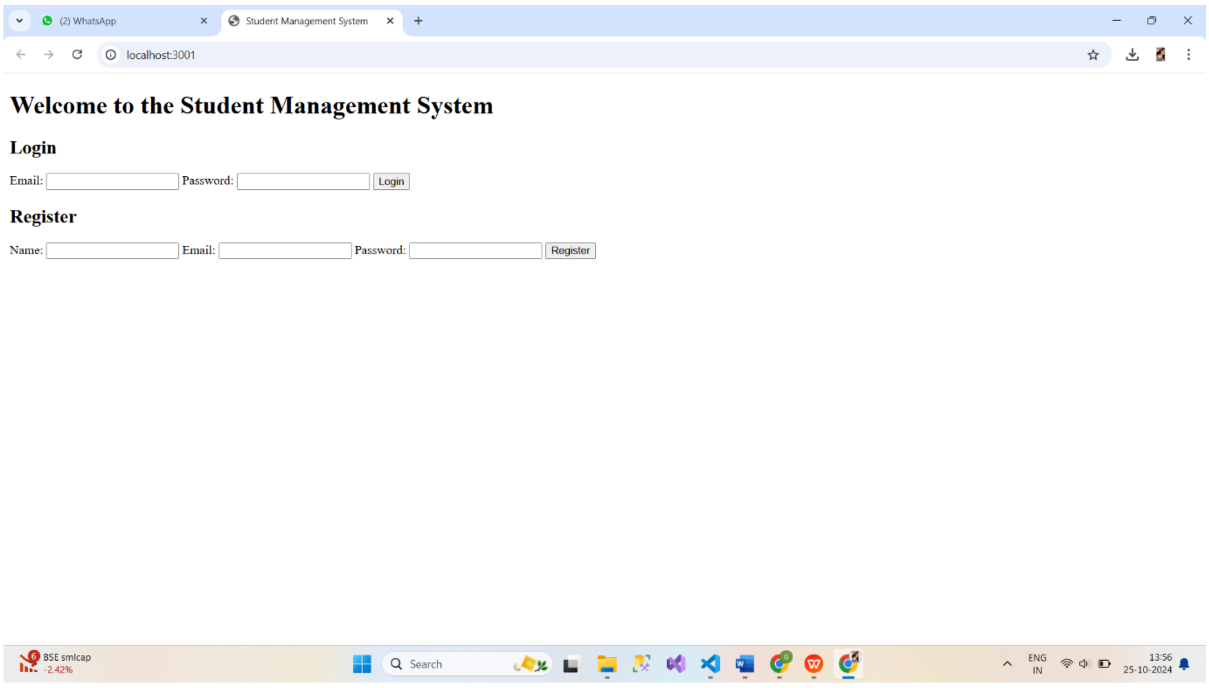
```
                    <a href="/students/<%= student._id %>/edit">Edit</a>

                    <!-- Delete button -->
                    <form action="/students/<%= student._id %>?_method=DELETE"
method="POST" style="display:inline;">
                        <button type="submit">Delete</button>
                    </form>
                </td>
            </tr>
        <% }) %>
      </tbody>
   </table>

   <!-- Add New Student Button -->
   <a href="/students/new">Add New Student</a>

   <!-- Logout Button -->
   <form action="/logout" method="POST">
      <button type="submit">Logout</button>
   </form>
</body>
</html>
```

update.ejs

```
<!DOCTYPE html>
<html lang="en">
<head>
   <meta charset="UTF-8">
```

```html
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Edit Student</title>
</head>
<body>
    <h1>Edit Student</h1>
    <form action="/students/<%= student._id %>?_method=PUT" method="POST">
        <label for="name">Name:</label>
        <input type="text" name="name" value="<%= student.name %>" required>
        <label for="email">Email:</label>
        <input type="email" name="email" value="<%= student.email %>" required>
        <label for="password">Password:</label>
        <input type="password" name="password" placeholder="Leave blank to keep current 
password">
        <button type="submit">Update Student</button>
    </form>
    <a href="/students">Back to Students List</a>
</body>
</html>
```

Output :-



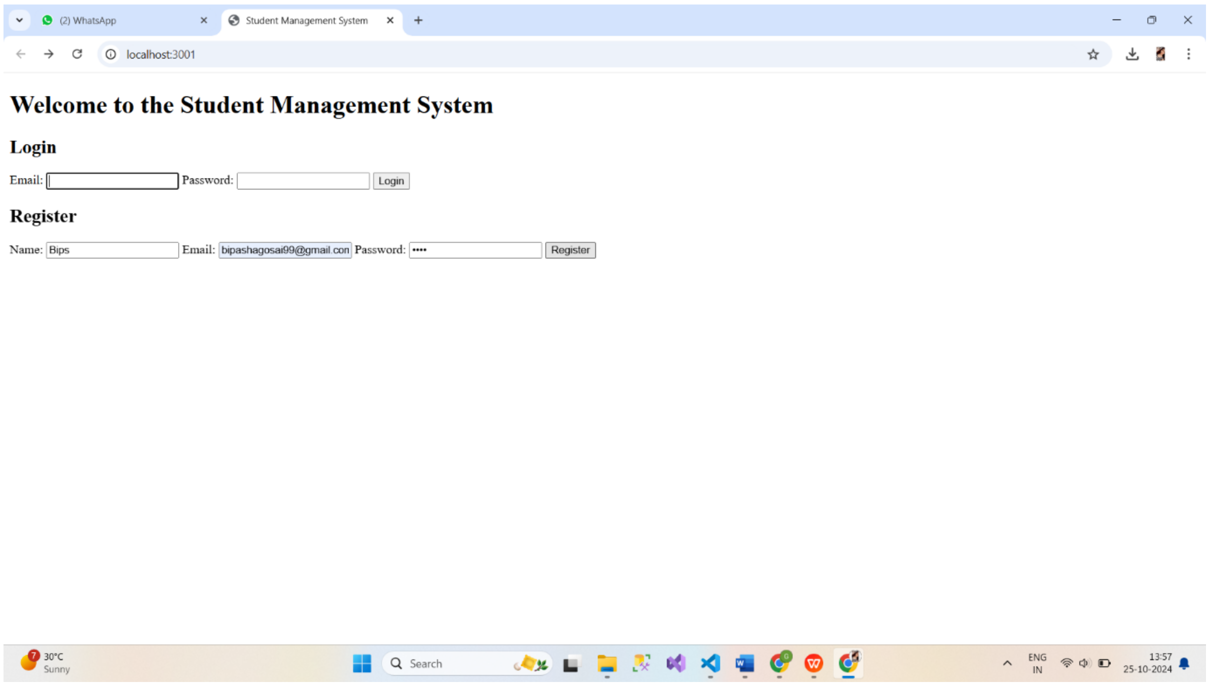
Welcome to the Student Management System

Login

Email: Password: Login

Register

Name: Email: Password: Register



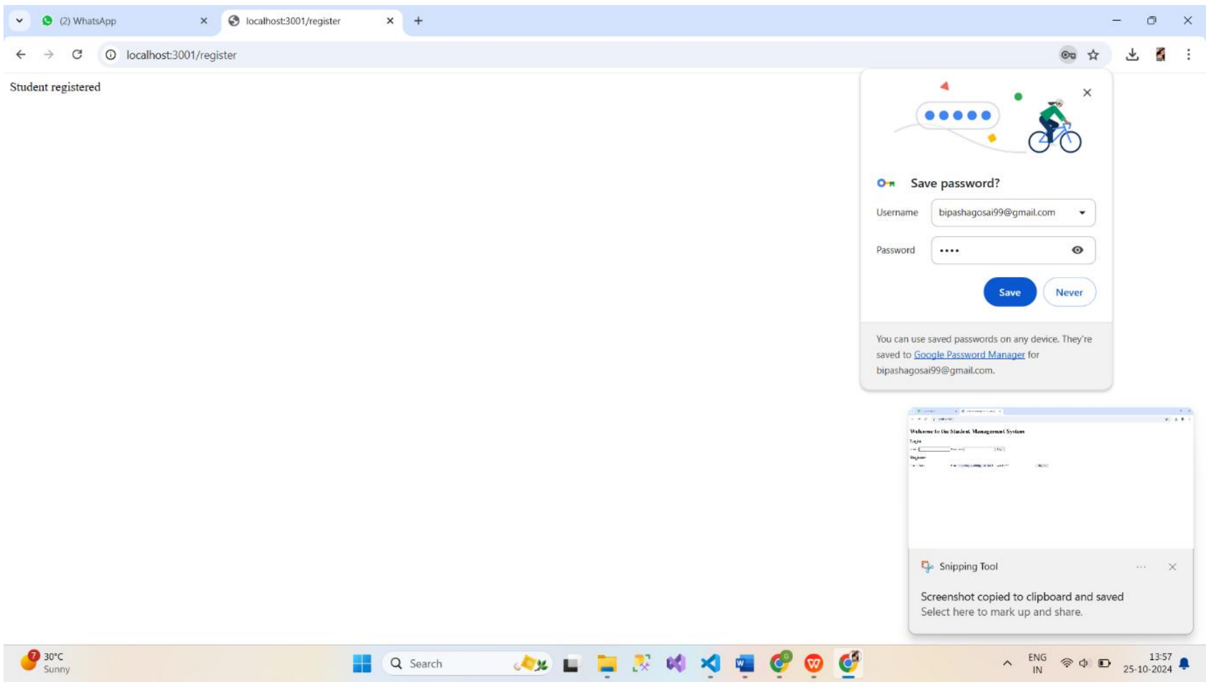
Welcome to the Student Management System

Login

Email: Password: Login

Register

Name: Bips Email: bipashagosai99@gmail.con Password: •••• Register



localhost:3001/register

Student registered

Save password?

Username bipashagosai99@gmail.com

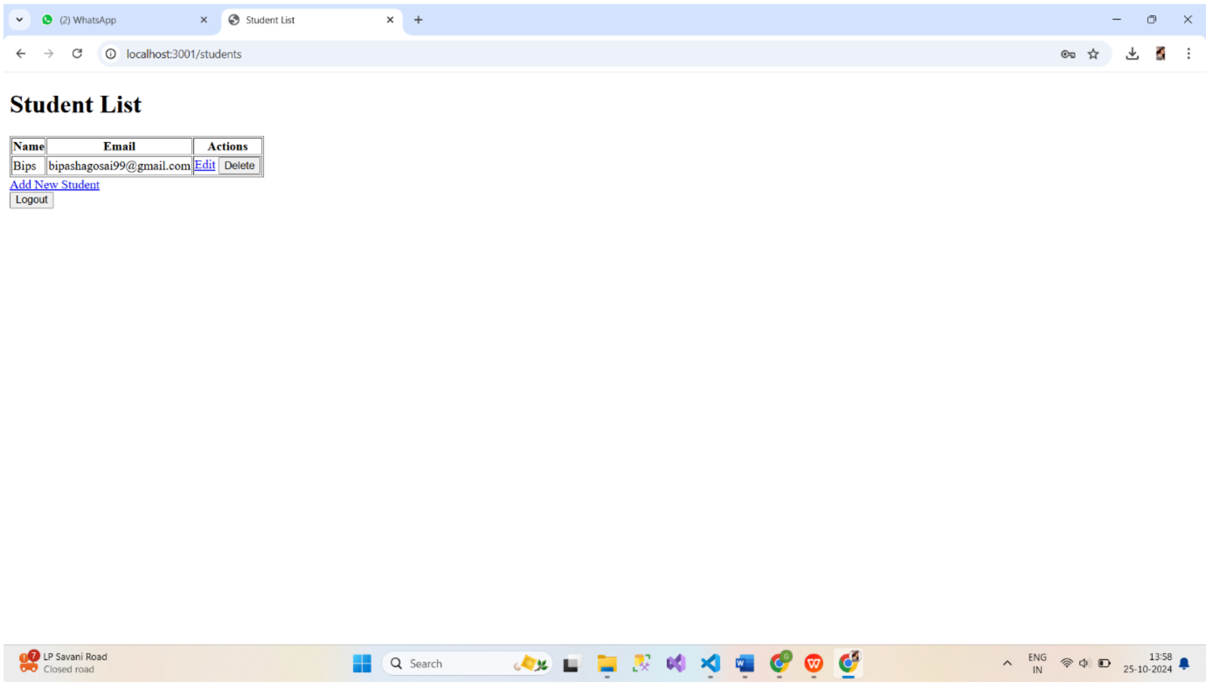
Password ••••

Save Never

You can use saved passwords on any device. They're saved to Google Password Manager for bipashagosai99@gmail.com.

Snipping Tool

Screenshot copied to clipboard and saved
Select here to mark up and share.



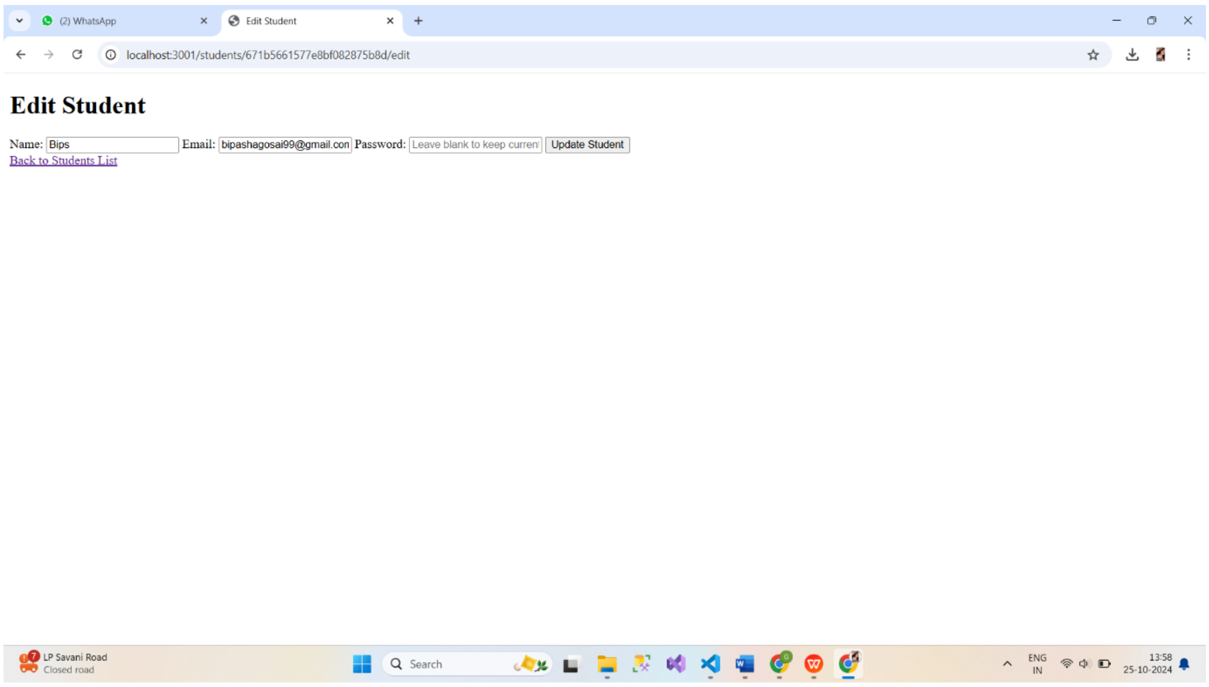
localhost:3001/students

Student List

Name	Email	Actions	
Bips	bipashagosai99@gmail.com	Edit	Delete

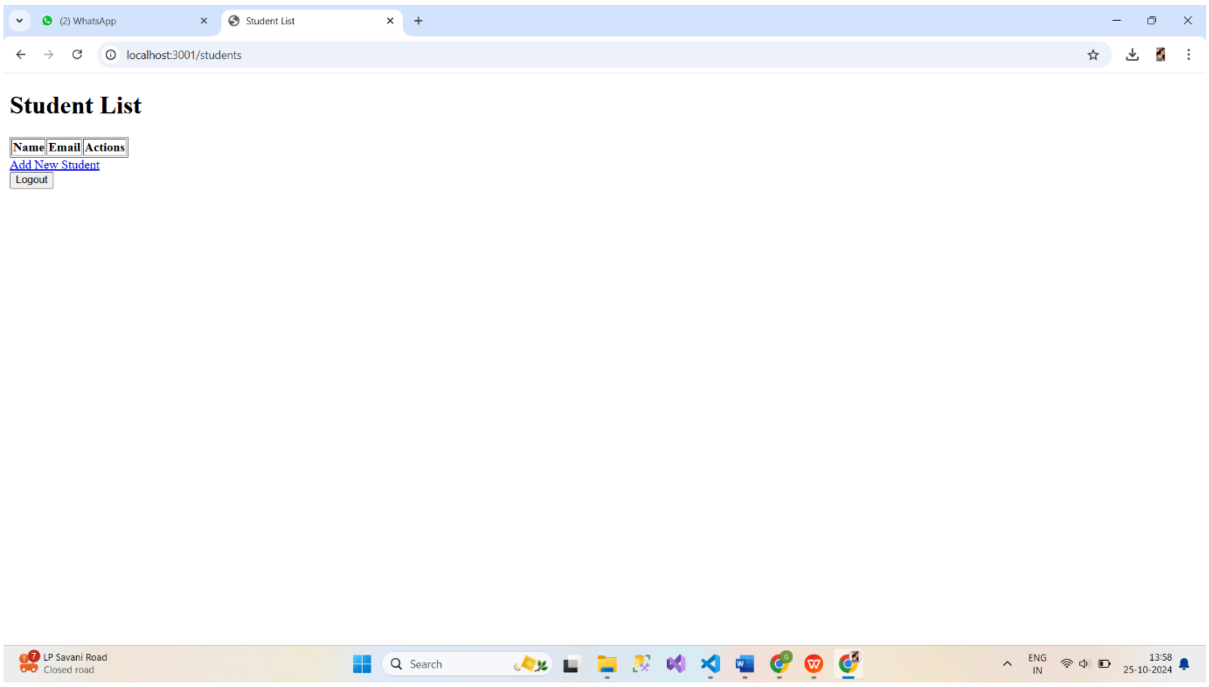
Add New Student

Logout


(2) WhatsApp
Edit Student
localhost:3001/students/671b5661577e8bf082875b8d/edit

Edit Student

Name: Bips Email: bipashagosai99@gmail.con Password: Leave blank to keep curren Update Student
Back to Students List


(2) WhatsApp
Student List
localhost:3001/students

Student List

Name	Email	Actions

Add New Student
Logout

5) Login with JWT, CRUD operations for students table with mongoose, express and frontend(html,css,javascript/jquery/angularjs), Logout.

server.js

```
const express = require('express');
const mongoose = require('mongoose');
const jwt = require('jsonwebtoken');
const bcrypt = require('bcryptjs');
const cors = require('cors');
const path = require('path');
const session = require('express-session');
const methodOverride = require('method-override');
const app = express();
const PORT = process.env.PORT || 8001;

// Middleware
app.use(express.json());
app.use(express.urlencoded({ extended: true }));
app.use(methodOverride('_method')); // For PUT and DELETE methods
app.use(cors());
app.set('view engine', 'ejs');

// Set views directory
app.set('views', path.join(__dirname, 'views'));
app.use(express.static(path.join(__dirname, 'public')));

// Session setup
```

```
app.use(session({
    secret: 'your_secret_key',
    resave: false,
    saveUninitialized: true,
}));

// Connect to MongoDB
mongoose.connect('mongodb://localhost:27017/employeeDB', { useNewUrlParser: true,
useUnifiedTopology: true })
    .then(() => console.log('MongoDB connected'))
    .catch(err => console.error(err));

// Employee Schema
const employeeSchema = new mongoose.Schema({
    name: String,
    email: { type: String, unique: true },
    password: String
});

const Employee = mongoose.model('Employee', employeeSchema);

// Middleware for JWT verification
const authenticateJWT = (req, res, next) => {
    const token = req.session.token;
    if (!token) return res.redirect('/login'); // Redirect to login if not logged in

    jwt.verify(token, 'your_jwt_secret', (err, user) => {
        if (err) return res.redirect('/login'); // Redirect if token is invalid
        req.user = user;
        next();
```

```
  });
};

// Routes

// Registration Page
app.get('/register', (req, res) => {
  res.render('register');
});

// Register new employee
app.post('/register', async (req, res) => {
  const hashedPassword = await bcrypt.hash(req.body.password, 10);
  const newEmployee = new Employee({
    name: req.body.name,
    email: req.body.email,
    password: hashedPassword
  });

  try {
    await newEmployee.save();
    res.redirect('/login'); // Redirect to login page after registration
  } catch (error) {
    res.status(400).send('Error registering employee');
  }
});

// Login Page
app.get('/login', (req, res) => {
    res.render('login');
});

// Login employee
app.post('/login', async (req, res) => {
    const employee = await Employee.findOne({ email: req.body.email });
    if (employee && (await bcrypt.compare(req.body.password, employee.password))) {
        const token = jwt.sign({ email: employee.email }, 'your_jwt_secret', { expiresIn: '1h' });
        req.session.token = token;
        res.redirect('/employees'); // Redirect to the employee list page after login
    } else {
        res.status(403).send('Invalid credentials');
    }
});

// Logout
app.post('/logout', (req, res) => {
    req.session.destroy(err => {
        if (err) return res.status(500).send('Could not log out');
        res.redirect('/login');
    });
});

// View all employees (Protected route)
app.get('/employees', authenticateJWT, async (req, res) => {
    try {
        const employees = await Employee.find();
        res.render('employeeList', { employees });
    } catch (error) {
        res.status(500).send('Error retrieving employees');
    }
});

// Add employee form (Protected route)
app.get('/employees/new', authenticateJWT, (req, res) => {
    res.render('addEmployee');
});

// Handle adding a new employee
app.post('/employees', authenticateJWT, async (req, res) => {
    const hashedPassword = await bcrypt.hash(req.body.password, 10);
    const newEmployee = new Employee({
        name: req.body.name,
        email: req.body.email,
        password: hashedPassword
    });

    try {
        await newEmployee.save();
        res.redirect('/employees');
    } catch (error) {
        res.status(400).send('Error creating employee');
    }
});

// Update employee form (Protected route)
app.get('/employees/:id/edit', authenticateJWT, async (req, res) => {
    try {
        const employee = await Employee.findById(req.params.id);
        res.render('editEmployee', { employee });
    } catch (error) {
        res.status(400).send('Error retrieving employee');
    }
});

// Handle updating an employee
app.put('/employees/:id', authenticateJWT, async (req, res) => {
    const updateData = {
        name: req.body.name,
        email: req.body.email,
    };

    if (req.body.password) {
        updateData.password = await bcrypt.hash(req.body.password, 10);
    }

    try {
        await Employee.findByIdAndUpdate(req.params.id, updateData);
        res.redirect('/employees');
    } catch (error) {
        res.status(400).send('Error updating employee');
    }
});

// Handle deleting an employee
app.delete('/employees/:id', authenticateJWT, async (req, res) => {
    try {
        await Employee.findByIdAndDelete(req.params.id);
        res.redirect('/employees');
    } catch (error) {
        res.status(400).send('Error deleting employee');
    }
});

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

addEmployee.ejs

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Add Employee</title>
    <link rel="stylesheet" href="/styles.css">
</head>
<body>
    <div class="container">
        <h1>Add New Employee</h1>
        <form action="/employees" method="POST">
            <div>
              <label for="name">Name:</label>
              <input type="text" id="name" name="name" required>
            </div>
            <div>
              <label for="email">Email:</label>
              <input type="email" id="email" name="email" required>
            </div>
            <div>
              <label for="password">Password:</label>
              <input type="password" id="password" name="password" required>
            </div>
            <button type="submit">Add Employee</button>
        </form>
        <a href="/employees" class="btn">Back to Employee List</a>
    </div>
    <script src="/script.js"></script>
</body>
</html>
```

editEmployee.ejs

```
<!DOCTYPE html>
<html lang="en">
<head>
   <meta charset="UTF-8">
   <meta name="viewport" content="width=device-width, initial-scale=1.0">
   <title>Edit Employee</title>
   <link rel="stylesheet" href="/styles.css">
```

```
</head>
<body>
    <div class="container">
        <h1>Edit Employee</h1>
        <form action="/employees/<%= employee._id %>?_method=PUT" method="POST">
            <div>
                <label for="name">Name:</label>
                <input type="text" id="name" name="name" value="<%= employee.name %>" required>
            </div>
            <div>
                <label for="email">Email:</label>
                <input type="email" id="email" name="email" value="<%= employee.email %>" required>
            </div>
            <div>
                <label for="password">New Password (leave blank to keep current):</label>
                <input type="password" id="password" name="password">
            </div>
            <button type="submit">Update Employee</button>
        </form>
        <a href="/employees" class="btn">Back to Employee List</a>
    </div>
    <script src="/script.js"></script>
</body>
</html>
```

employeeList.ejs

```
<!DOCTYPE html>
<html lang="en">
<head>
   <meta charset="UTF-8">
   <meta name="viewport" content="width=device-width, initial-scale=1.0">
   <title>Employee List</title>
   <link rel="stylesheet" href="/styles.css"> <!-- Link to your CSS file -->
   <script src="https://code.jquery.com/jquery-3.6.0.min.js"></script> <!-- Optional jQuery --
>
   <style>
      body {
         font-family: Arial, sans-serif;
         margin: 20px;
      }
      h1 {
         text-align: center;
      }
      table {
         width: 100%;
         border-collapse: collapse;
         margin-top: 20px;
      }
      table, th, td {
         border: 1px solid #ddd;
      }
      th, td {
         padding: 8px;
         text-align: left;
      }
      th {
```

```css
    background-color: #f2f2f2;
}
tr:hover {
    background-color: #f1f1f1;
}
.action-buttons {
    display: flex;
    justify-content: space-between;
    margin: 10px 0;
}
a {
    text-decoration: none;
    color: white;
    padding: 10px 15px;
    border-radius: 5px;
}
.add-button {
    background-color: #4CAF50; /* Green */
}
.logout-button {
    background-color: #f44336; /* Red */
}
.edit-button {
    color: #007BFF; /* Blue color for the Edit link */
    text-decoration: underline; /* Underline for better visibility */
}
.edit-button:hover {
    color: #0056b3; /* Darker blue on hover */
}
```

```
        .delete-button {
            color: red; /* Red for delete button */
            border: none;
            background: none;
            cursor: pointer;
        }
    </style>
</head>
<body>
    <h1>Employee List</h1>

    <div class="action-buttons">
        <a href="/employees/new" class="add-button">Add Employee</a>
        <form action="/logout" method="POST">
            <button type="submit" class="logout-button">Logout</button>
        </form>
    </div>

    <table>
        <thead>
            <tr>
                <th>Name</th>
                <th>Email</th>
                <th>Actions</th>
            </tr>
        </thead>
        <tbody>
            <% employees.forEach(employee => { %>
                <tr>
                <td><%= employee.name %></td>

                <td><%= employee.email %></td>

                <td>

                    <a href="/employees/<%= employee._id %>/edit" class="edit-button">Edit</a>

                    <form action="/employees/<%= employee._id %>?_method=DELETE"
method="POST" style="display:inline;">

                        <button type="submit" class="delete-button">Delete</button>

                    </form>

                </td>

            </tr>

        <% }); %>

    </tbody>

  </table>

</body>

</html>
```

login.ejs

```
<!DOCTYPE html>

<html lang="en">

<head>

  <meta charset="UTF-8">

  <meta name="viewport" content="width=device-width, initial-scale=1.0">

  <title>Login</title>

  <link rel="stylesheet" href="/styles.css">

</head>

<body>

  <div class="container">
```

```
        <h1>Login</h1>
        <form action="/login" method="POST">
            <div>
                <label for="email">Email:</label>
                <input type="email" id="email" name="email" required>
            </div>
            <div>
                <label for="password">Password:</label>
                <input type="password" id="password" name="password" required>
            </div>
            <button type="submit">Login</button>
        </form>
        <p>Don't have an account? <a href="/register">Register here</a></p>
    </div>
    <script src="/script.js"></script>
</body>
</html>
```

register.ejs

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Register</title>
    <link rel="stylesheet" href="/styles.css">
</head>
```

```
<body>
  <div class="container">
    <h1>Register</h1>
    <form action="/register" method="POST">
      <div>
        <label for="name">Name:</label>
        <input type="text" id="name" name="name" required>
      </div>
      <div>
        <label for="email">Email:</label>
        <input type="email" id="email" name="email" required>
      </div>
      <div>
        <label for="password">Password:</label>
        <input type="password" id="password" name="password" required>
      </div>
      <button type="submit">Register</button>
    </form>
    <p>Already have an account? <a href="/login">Login here</a></p>
  </div>
  <script src="/script.js"></script>
</body>
</html>
```

script.js

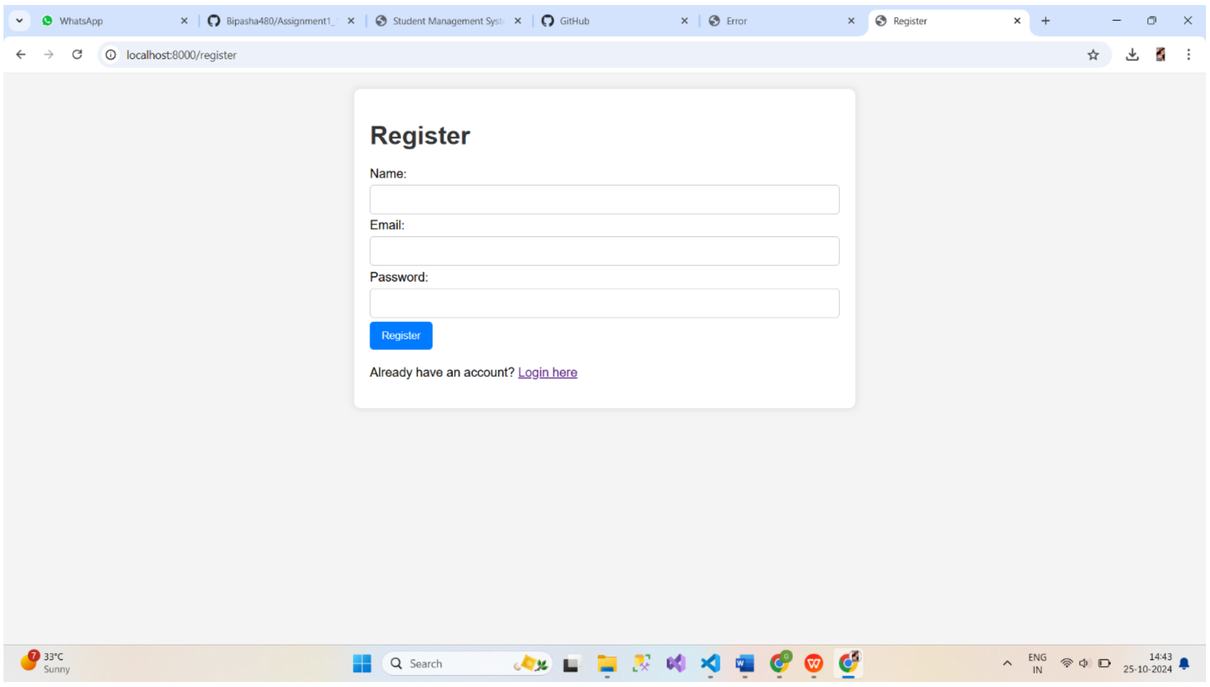
```
// Example JavaScript code for future enhancements
$(document).ready(function() {
    // Any JavaScript or jQuery code can be placed here
    console.log("Document is ready!");
});
```

styles.css

```
body {
    font-family: Arial, sans-serif;
    margin: 20px;
    background-color: #f4f4f4;
}

.container {
    max-width: 600px;
    margin: auto;
    background: white;
    padding: 20px;
    border-radius: 8px;
    box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);
}

h1 {
    color: #333;
}

form {
    margin-bottom: 20px;
}
```

```
input {
    margin: 5px 0;
    padding: 10px;
    width: calc(100% - 22px);
    border: 1px solid #ccc;
    border-radius: 5px;
}

button, .btn {
    padding: 10px 15px;
    background-color: #007BFF;
    color: white;
    border: none;
    border-radius: 5px;
    cursor: pointer;
}

button:hover, .btn:hover {
    background-color: #0056b3;
}

ul {
    list-style: none;
    padding: 0;
}

li {
    padding: 10px;
    border-bottom: 1px solid #ddd;
}
```

Output :-



Register

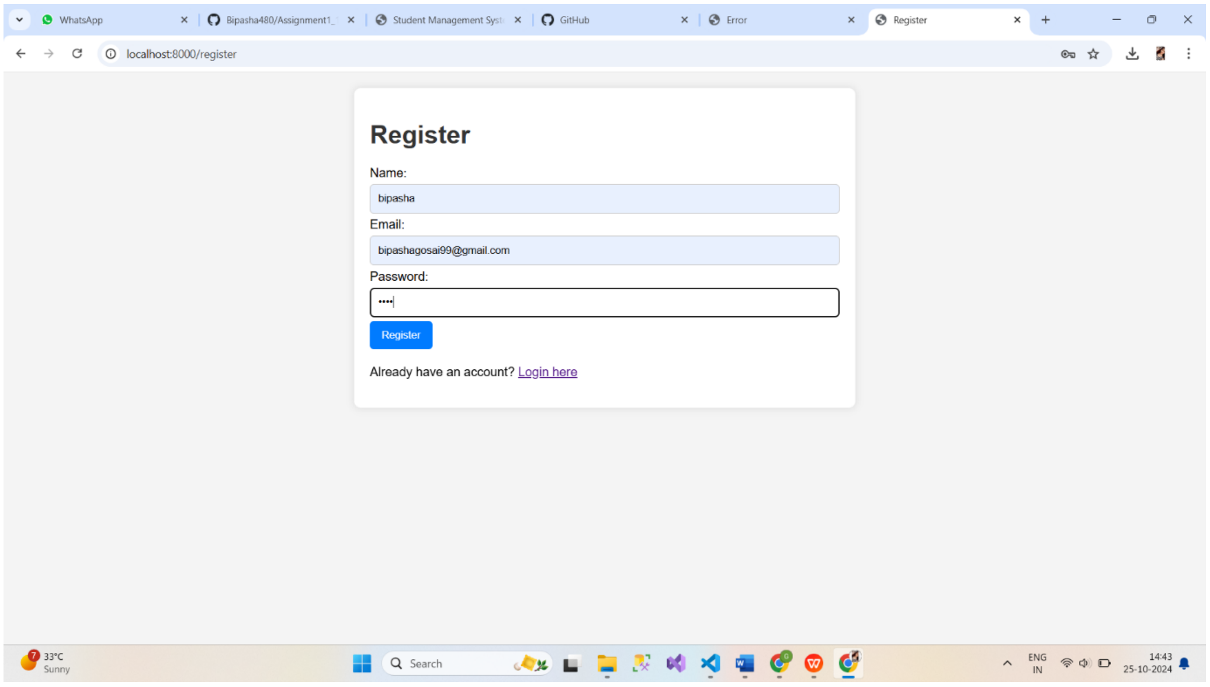
Name:

Email:

Password:

Register

Already have an account? Login here



Register

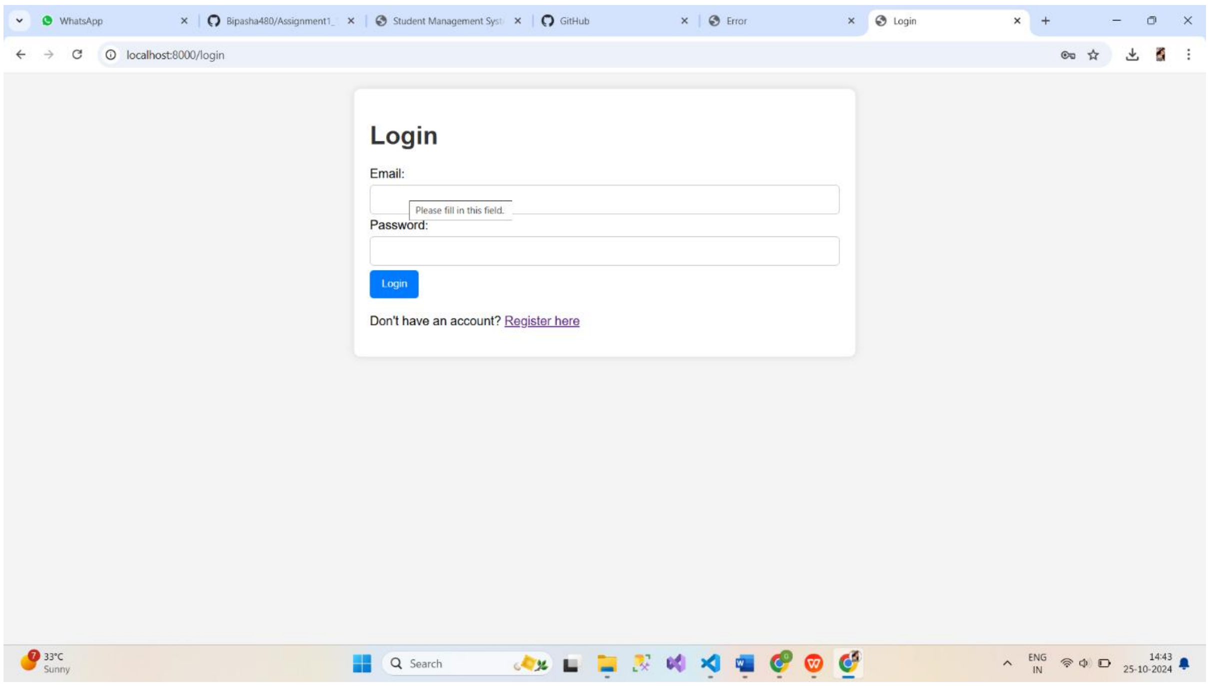
Name: bipasha

Email: bipashagosai99@gmail.com

Password: ••••

Register

Already have an account? Login here



Login

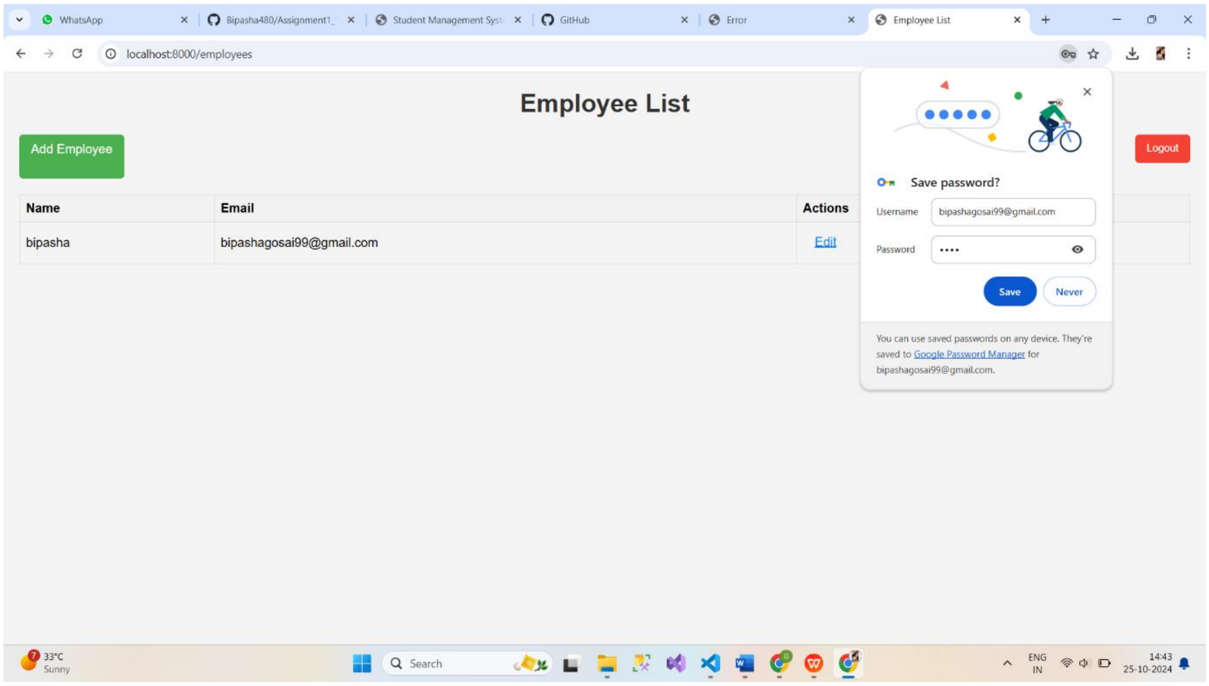
Email:

Please fill in this field.

Password:

Login

Don't have an account? Register here



Employee List

Name	Email	Actions
bipasha	bipashagosai99@gmail.com	Edit

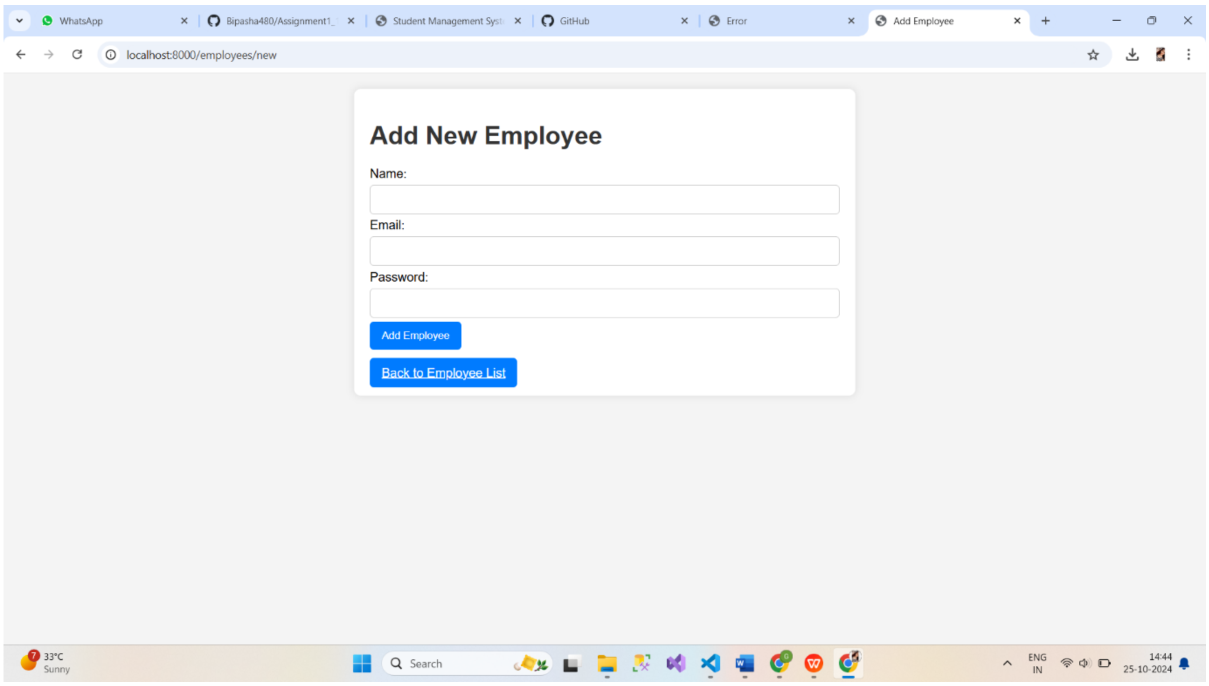
Save password?

Username bipashagosai99@gmail.com

Password ••••

Save Never

You can use saved passwords on any device. They're saved to Google Password Manager for bipashagosai99@gmail.com.



Add New Employee

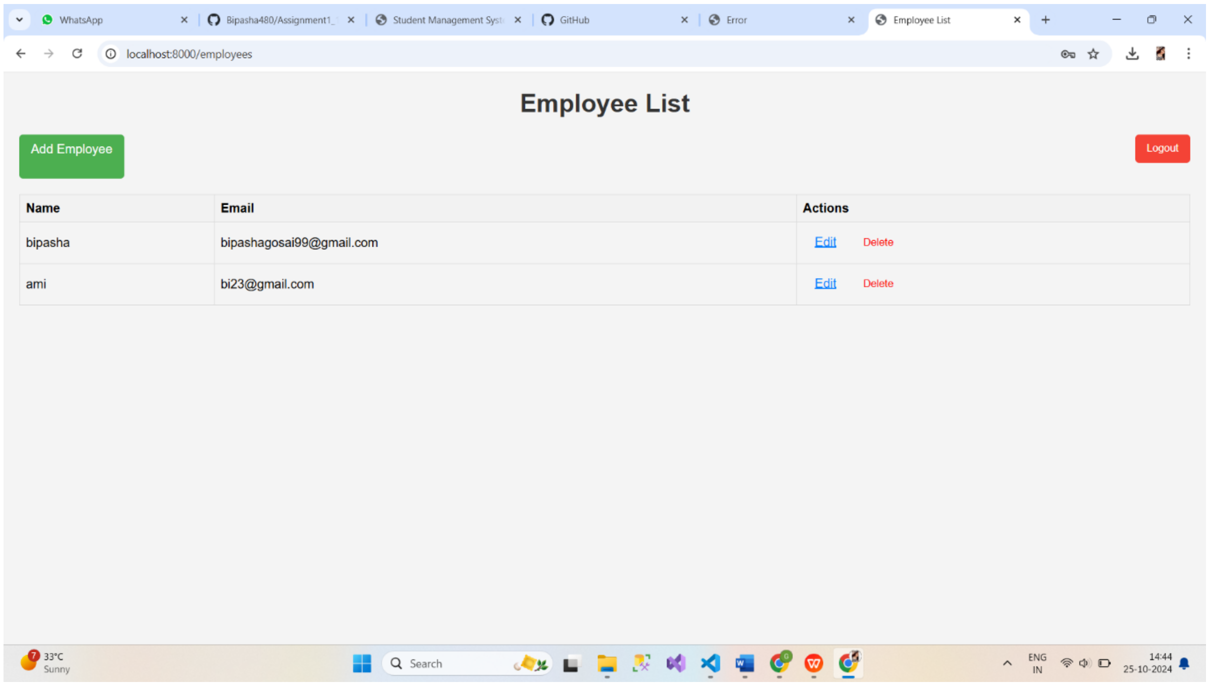
Name:

Email:

Password:

Add Employee

Back to Employee List

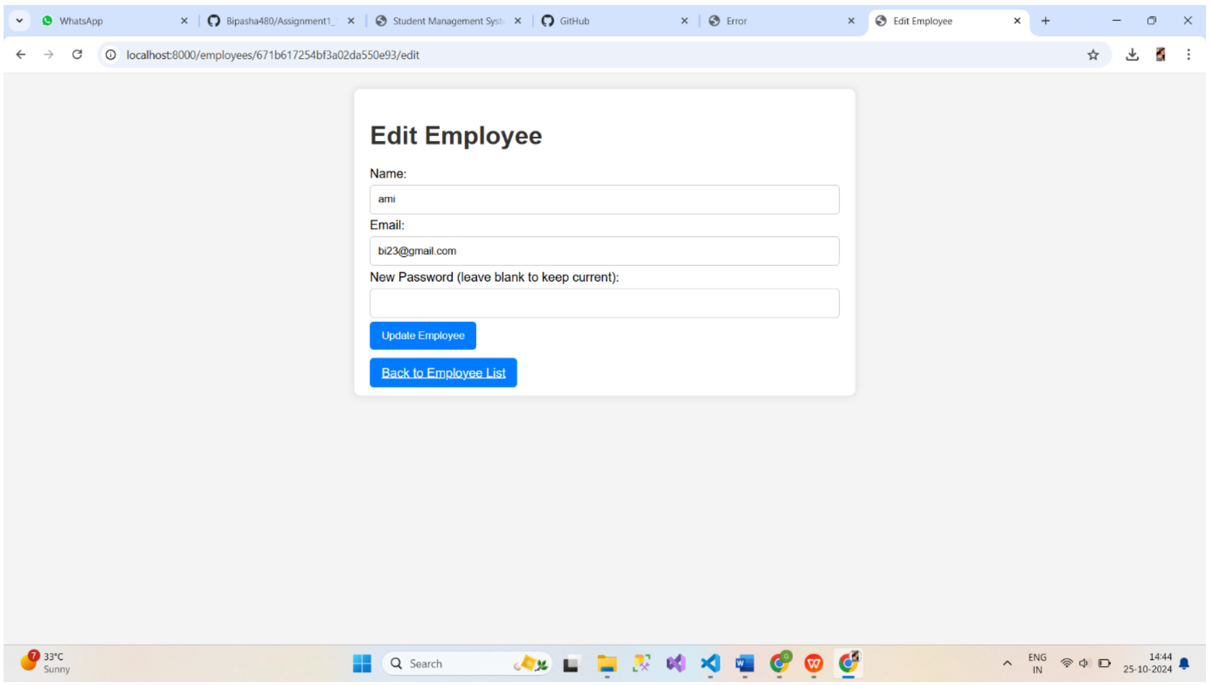


Employee List

Add Employee

Logout

Name	Email	Actions
bipasha	bipashagosai99@gmail.com	Edit Delete
ami	bi23@gmail.com	Edit Delete

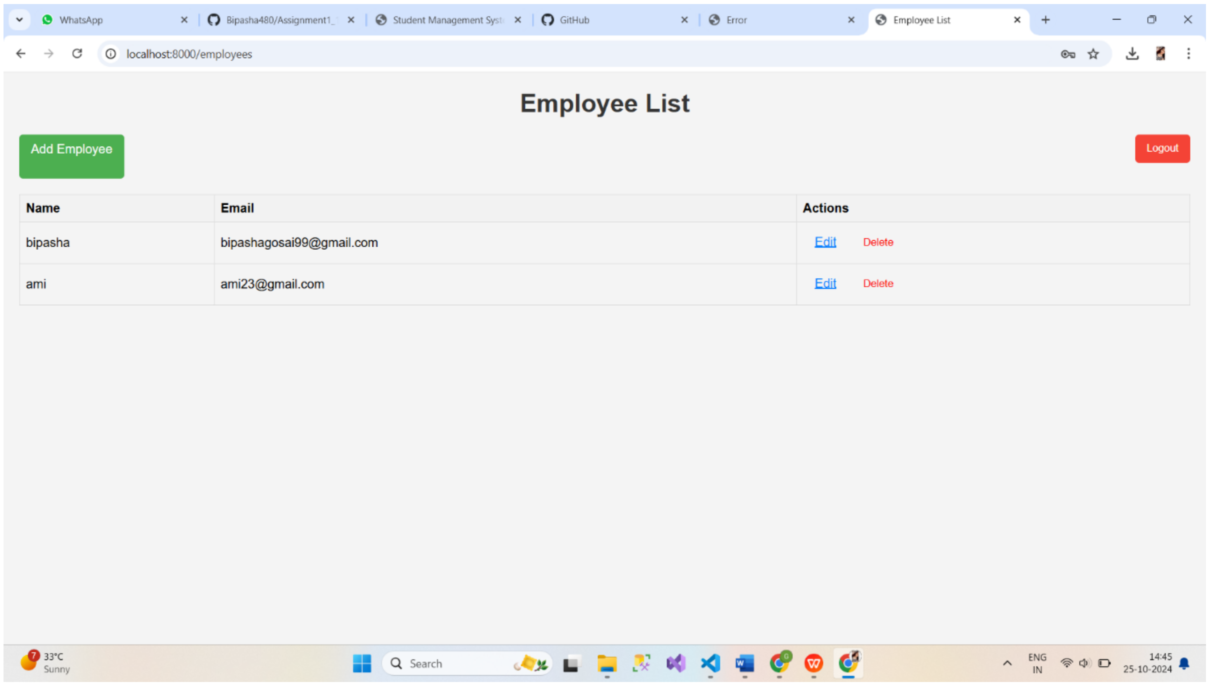

localhost:8000/employees/671b617254bf3a02da550e93/edit

Edit Employee

Name: ami

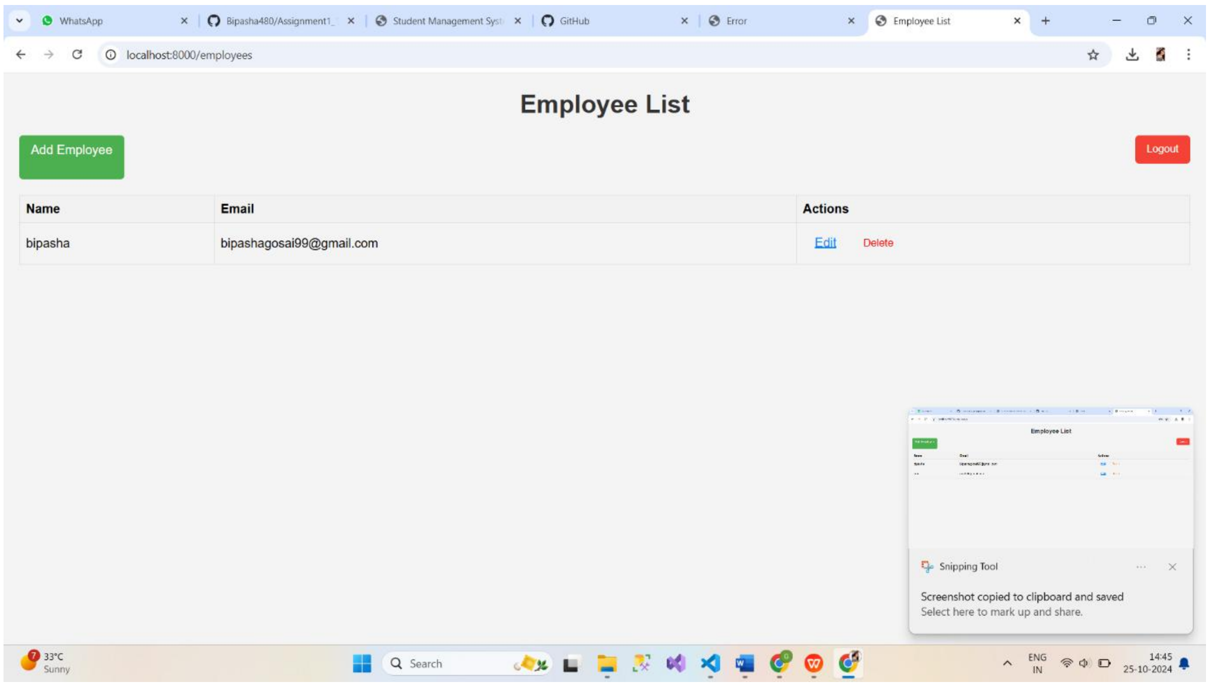
Email: bi23@gmail.com

New Password (leave blank to keep current):


localhost:8000/employees

Employee List

Name	Email	Actions
bipasha	bipashagosai99@gmail.com	Edit Delete
ami	ami23@gmail.com	Edit Delete



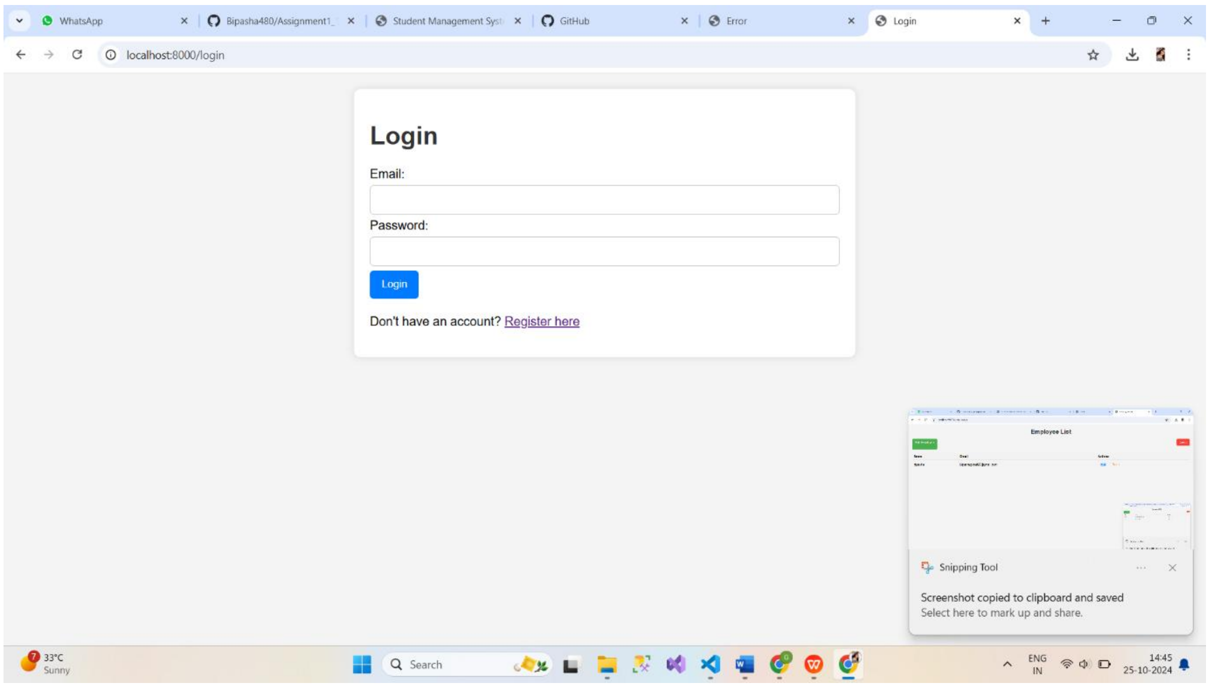
Employee List

Add Employee

Logout

Name	Email	Actions
bipasha	bipashagosai99@gmail.com	Edit Delete

Snipping Tool
Screenshot copied to clipboard and saved
Select here to mark up and share.
33°C
Sunny
Search
ENG
IN
14:45
25-10-2024



Login

Email:

Password:

Login

Don't have an account? Register here

Snipping Tool
Screenshot copied to clipboard and saved
Select here to mark up and share.
33°C
Sunny
Search
ENG
IN
14:45
25-10-2024