

Role-Based-Access-Control UI

Hi, I'm Adithya Choudhry. I am a software developer with hands-on experience in software development, particularly in web development using SQL Server and .NET Web API. I am also interested in creating web applications.

I have developed a role-based access control UI using the MERN stack (MongoDB, Express, React, Node.js). In this application, administrators can view and edit all users.

I have deployed the application, but there are some technical issues that I am currently working to resolve.

If you would like to see the partly functional application, you can access it here

<https://majestic-cranachan-153975.netlify.app/>

Initial Requirements

- 1.React
- 2.NodeJS
- 3.ExpressJS
- 4.MySql + Xampp
- 5.VS code

Steps to Run the Application

1.Clone The Git repository

2.open the folder

- 1.Select the folder Backend and open in VS Code and use this command to install the dependencies

Command1:npm install

Command2: npm init -y

Command3: node install-dependencies.js

For Password-Hashing I have used argon 2
install argon2 separately

Command1: pip install argon2==0.41.1

3. For the FrontEnd

Command1: npx create-react-app frontend --template redux

Command2:npm install

Command3:npm init -y

4.Xampp

- 1.You should have Mysql as Prerequisite Install that also . After that start Xampp
- 2.Go to phpMyAdmin dashboard and create a Database **rbac**

5.Insert these values in table for get admin access then only you can login

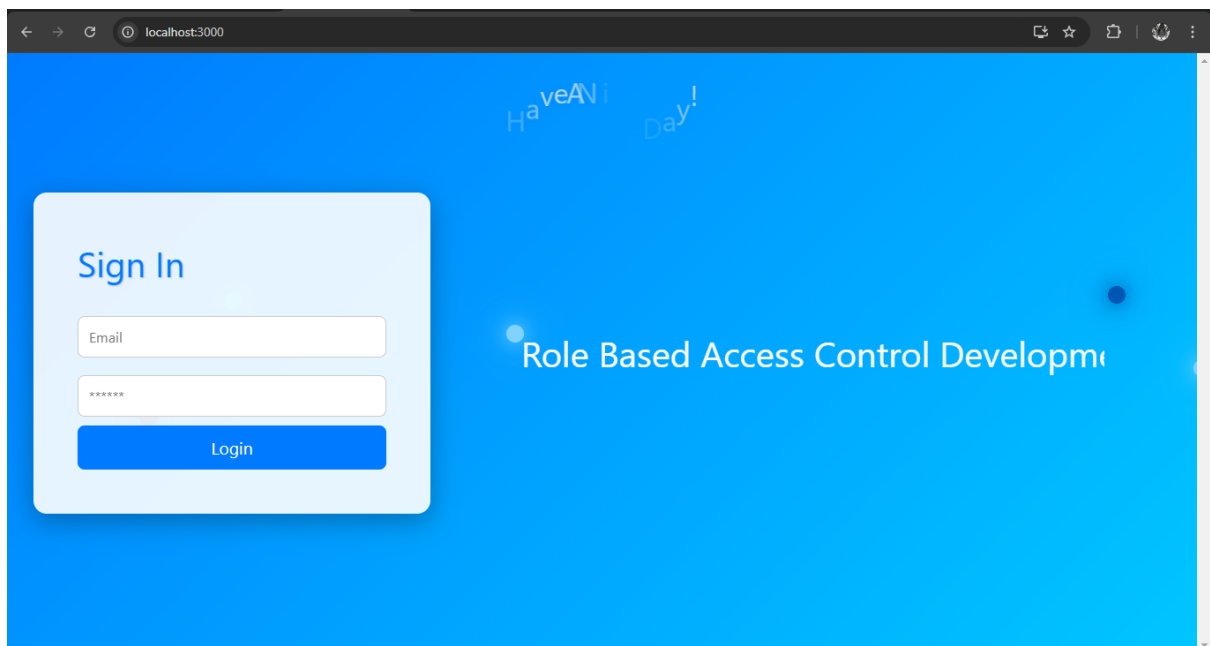
```
INSERT INTO `users` (`id`, `uuid`, `name`, `email`, `password`, `role`, `createdAt`, `updatedAt`) VALUES (NULL, 'b0c8606b-fe84-4765-9a8f-fb438e302964', 'Adminn', 'user@gmail.com', '$argon2id$v=19$m=65536,t=3,p=4$OINe+Jp9Y2g2j2L5qWvXMg$IK1cGxZqXWWw/UCpTCKi9dIhqlOqwiRk8nultvkdY', 'user', '2024-11-26 18:05:21', '2024-11-26 18:05:21')
```

6.Running the APP

- 1.Backend- Nodemon -V
- 2.Frontend- 1.npm run build 2.npm start

1.Homepage

I have given only a login page as it was Role Based Access Control Normal Users cannot register themselves



UI

1.Login

- 2.Role Based Access control Development Animation
- 3.Have a Nice Day Text Animation
- 4.Gradient Background
- 5.Bouncing Balls in the edges

Login

If Admin Login He can

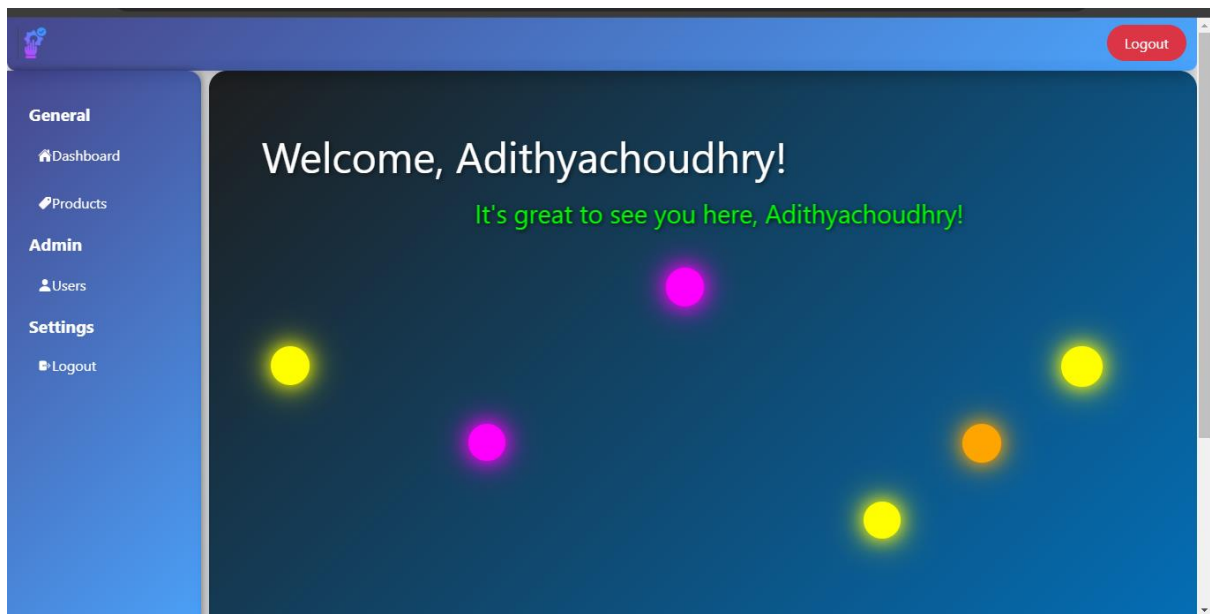
- 1.Create User
- 2.Update User
- 3.Edit User
- 4.Delete User Also same for the Products

If Normal user Logs in

He can see the option of user but access is denied to him

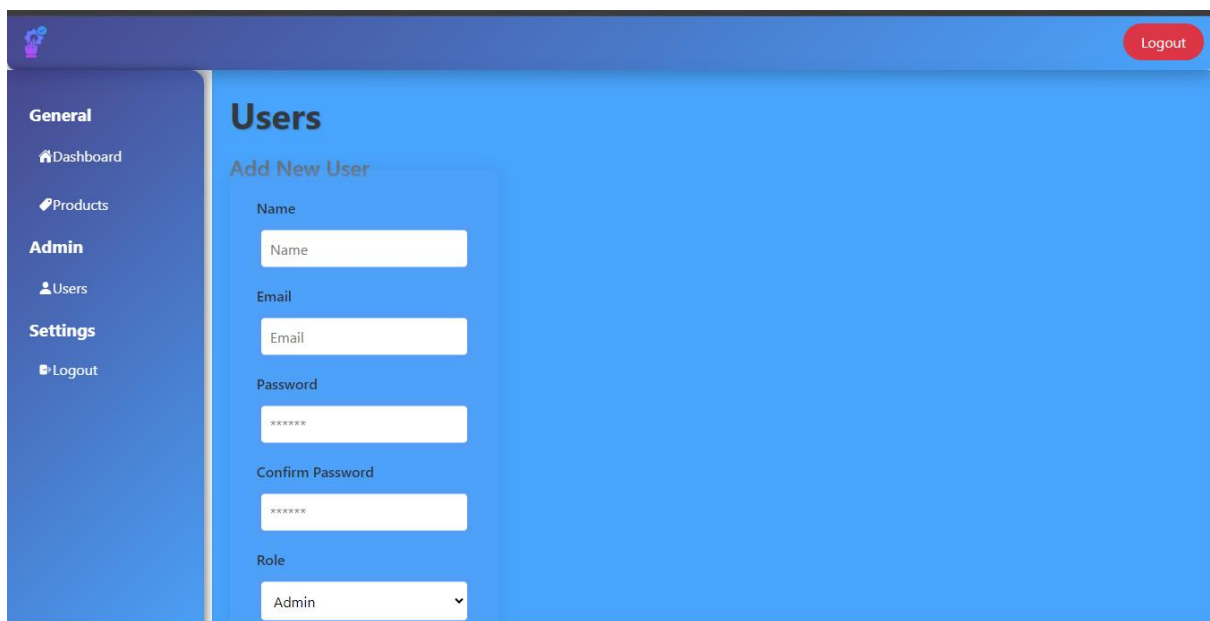
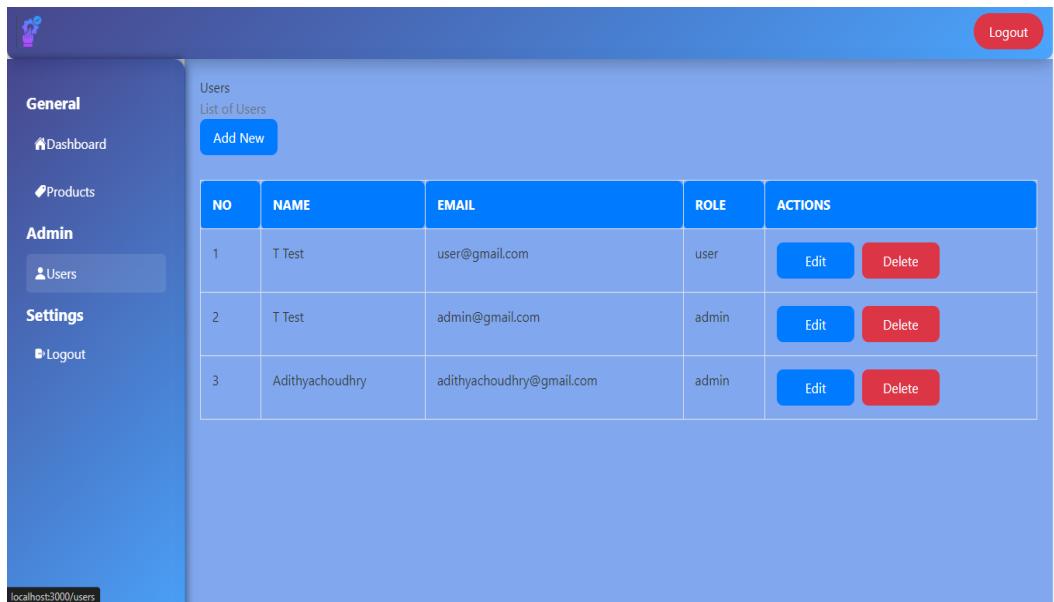
- 1.He can Create and see products only created by Him

ADMIN



- 1.Sidebar , Navbar For Users comfortability
- 2.Dots are Animated and change colors too

UserControl By Admin Only



Products Admin can edit All the Products as well

<div>General</div> <div>Dashboard</div> <div>Products</div> <div>Admin</div> <div>Users</div> <div>Settings</div> <div>Logout</div>	Products			
	List of Products			
	Add New			
	NO	PRODUCT NAME	PRICE	CREATED BY
	1	Laptop456	500000.00	T Test
	2	Laptop4563432	50000.00	T Test
	3	Laptop45432422	50000.00	T Test
	4	Desk	50000.00	T Test
	5	Desk1	50000.00	T Test
	6	Desk12	50000.00	T Test

Edit Products

General

Dashboard

Products

Admin

Users

Settings

Logout

Products

Edit Product

Name

Laptop456

Price

500000

Update

Adding Product

General

Dashboard

Products

Admin

Users

Settings

Logout

Products

Add New Product

Name

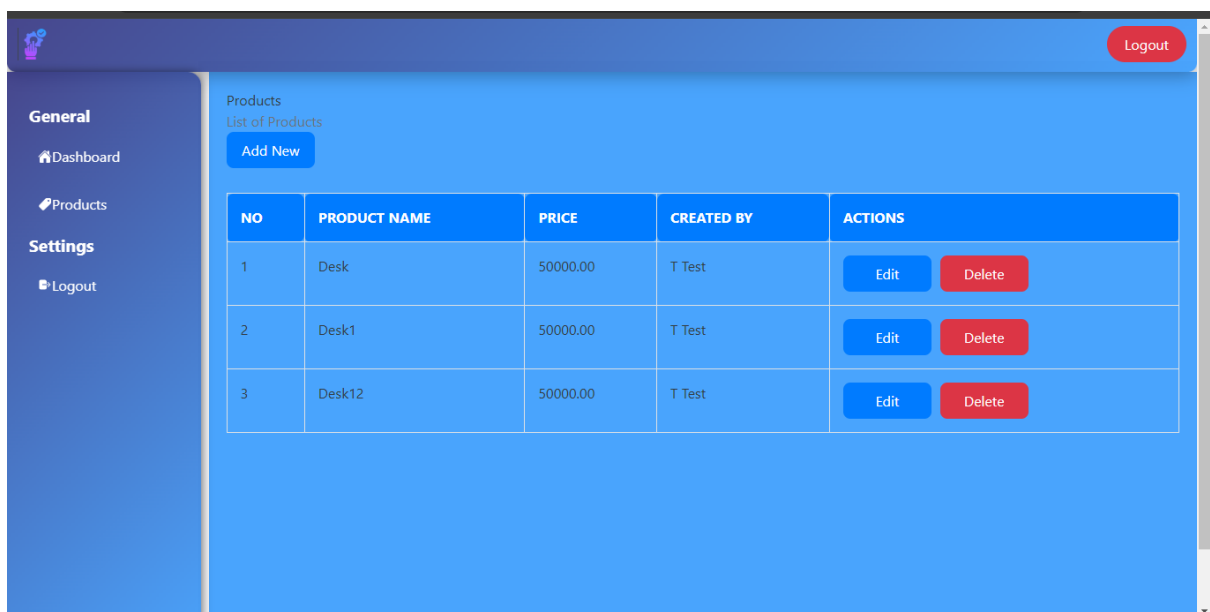
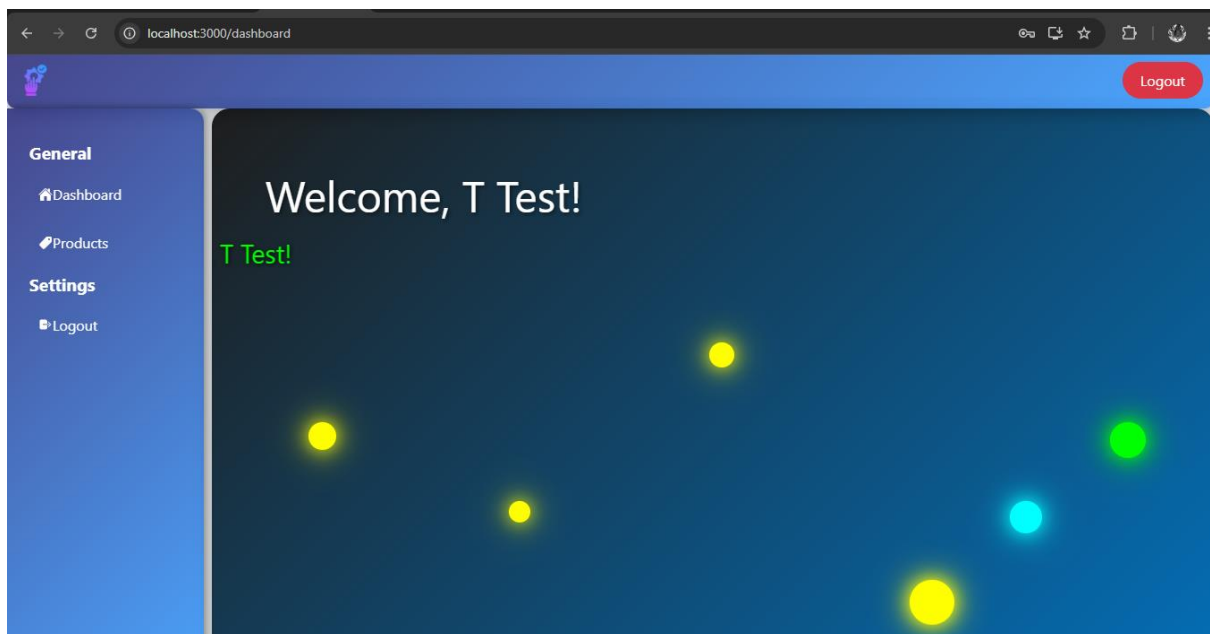
Product Name

Price

Price

Save

If Login As User , they cant see access to other users



only products listed by the particular user is shown

I have also Tested the Endpoints as well

