

User Management System

The web application is developed to manage users. Here, users can sign up in the public signup page and then they can login using their email and password they have provided during signup.

Technologies used

1. Angular 8 for frontend
2. Material Angular for UI
3. Node.js backend
4. Express JS framework
5. JWT token for authentication
6. MongoDB as Database

Role based access

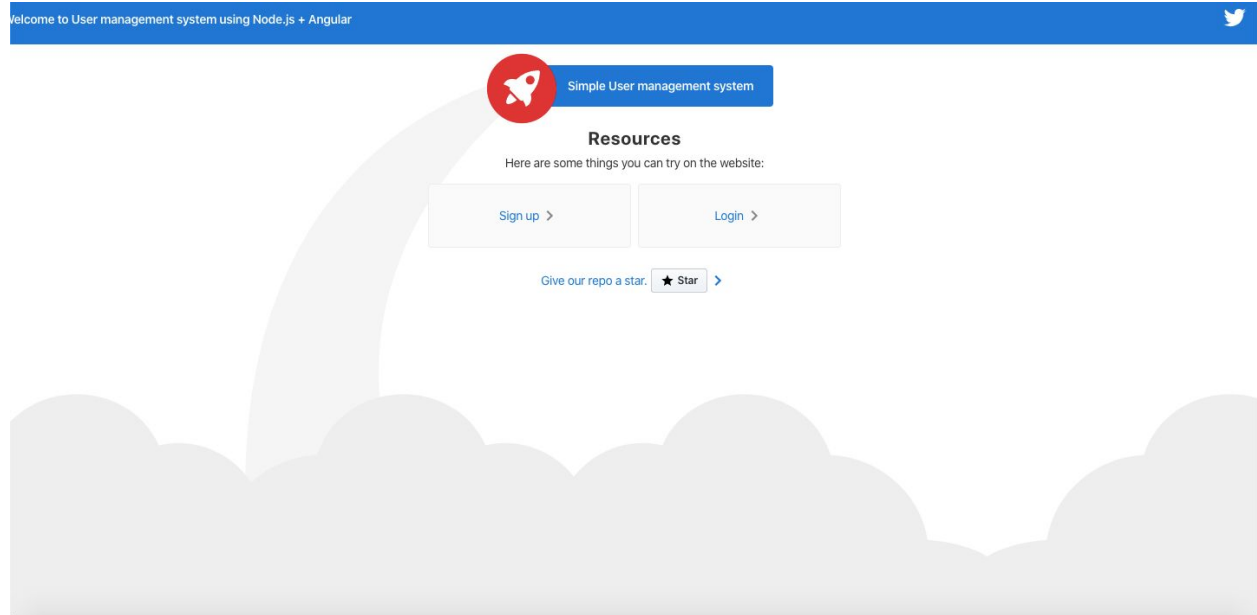
I have implemented role based access to the application. There are two type of role and a public access. All of them are mentioned below:

1. Public access
 - a. Can sign up for the application
 - b. Can visit the front page
 - c. Can Login
2. User access
 - a. Can view his/ her own details
 - b. Can update his/her own details
3. Admin access
 - a. Can view his/ her own details
 - b. Can update his/her own details
 - c. Can view list of registered users
 - d. Can update the details of the registered users.
 - e. Can delete users

Workflow screenshots

Public pages

The front page look something like this. It is similar to the template provided by the initial angular template.



Here we have two options. One is Sign up and another one is Login. Let's have a look at the signup page first.

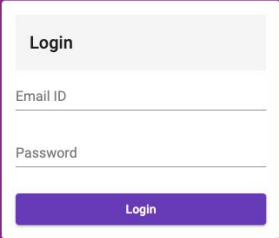
The image displays a 'User Registration' form set against a solid purple background. The form is a white rectangular box with a title bar at the top that says 'User Registration'. It contains several input fields: 'Full Name', 'Date of Birth' (with a calendar icon), 'Email ID', 'Password', 'Confirm Password', 'Phone Number', 'Website Address', 'Gender' (with a dropdown arrow), and 'Address' (with a location pin icon).

Here the user sign up for the portal with the basic details, for example Name, Date of birth, Email ID, Password, Phone number, Website Address, Gender and Address. One email id can only be used once across the application, so we have validated if the email id is already registered with the system, while registering the new user.

Email ID

admin@gmail.com

Email ID already exists



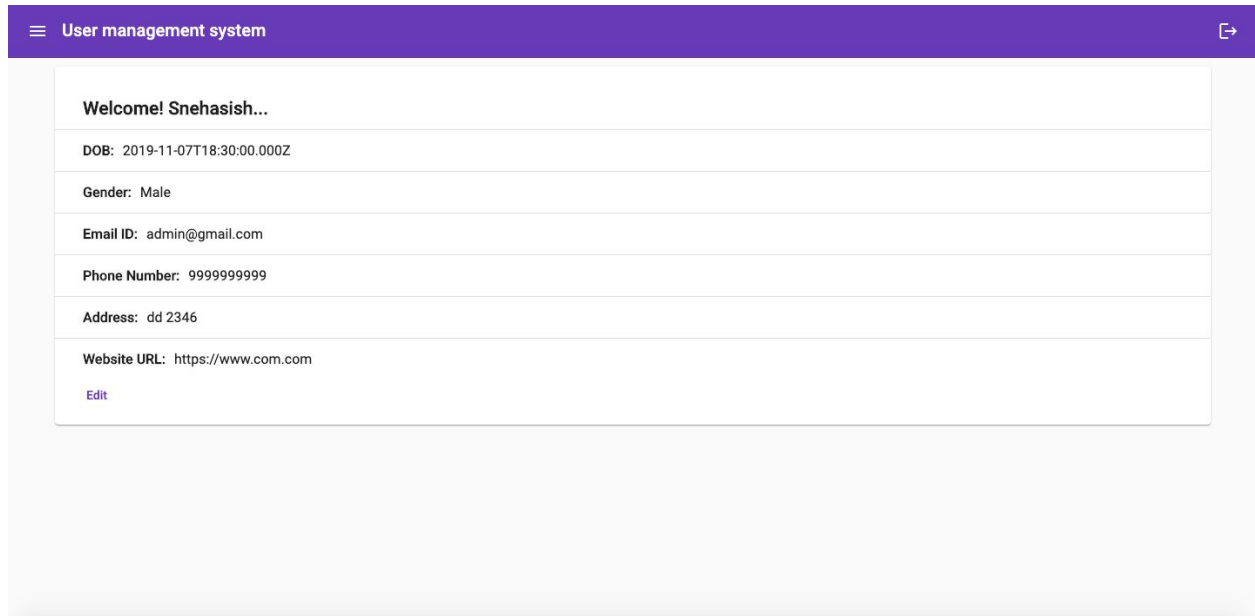
The image shows a login form centered on a solid purple background. The form is a white rectangle with a thin border. At the top of the form is a header section with the word 'Login' in bold. Below this are two input fields: 'Email ID' and 'Password'. Each input field has a small icon of a cursor at the end. At the bottom of the form is a purple button with the word 'Login' in white text.

Once the user completes the registration process, he/she is redirected to the login page, where he/she can login using the provided email id and password. Passwords in the application does not travel in the plain text format. They have been hashed using SHA256 hashing algorithm and stored in the database in the same way.

Note:

If the user is already logged in, he/she will be redirected directly to the profile page.

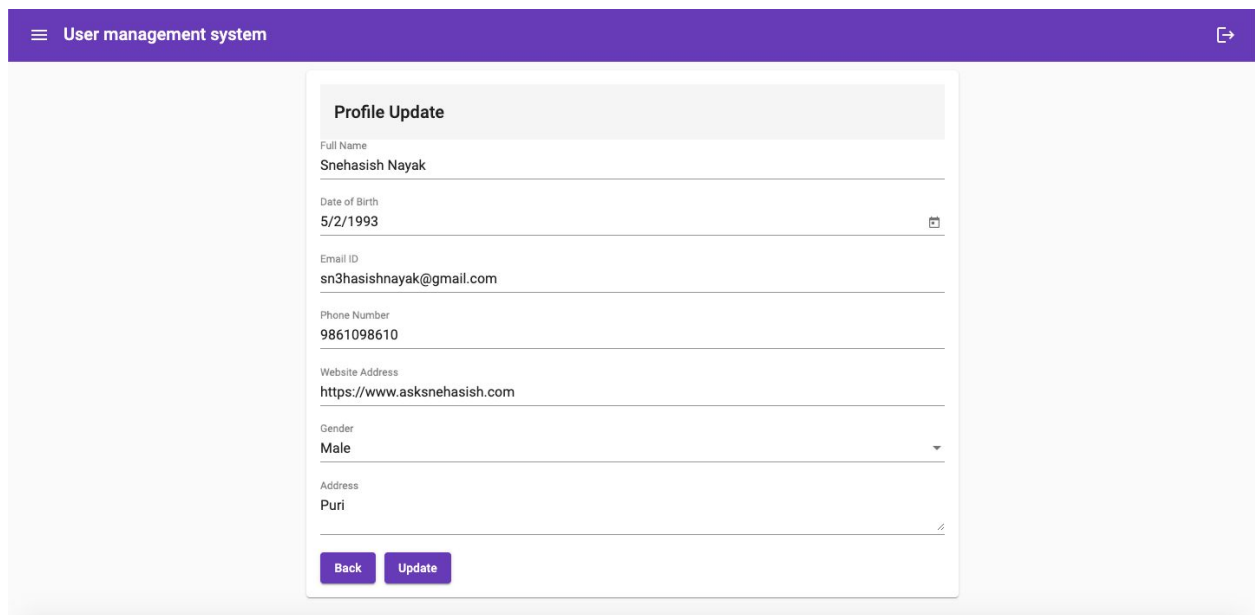
For users with the role “User”



The screenshot shows a web application titled "User management system" with a purple header. The main content area displays a user profile for "Snehasish...". The profile information is organized into a table-like structure with the following details:

Welcome! Snehasish...	
DOB:	2019-11-07T18:30:00.000Z
Gender:	Male
Email ID:	admin@gmail.com
Phone Number:	9999999999
Address:	dd 2346
Website URL:	https://www.com.com
Edit	

Once the user logs in, he is taken to his/her profile page, where the normal user can view the basic details provided while registering for the first time. And below the details, there is an edit button which can be used to edit the information (except the email id) as shown below.



The screenshot shows the "Profile Update" form within the "User management system". The form contains the following fields and values:

Profile Update	
Full Name	Snehasish Nayak
Date of Birth	5/2/1993
Email ID	sn3hasishnayak@gmail.com
Phone Number	9861098610
Website Address	https://www.asksnehasish.com
Gender	Male
Address	Puri
Back Update	

The normal user has only two authorities over here, he can view and update their information.

For users with role “Admin”

≡ User management system

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Welcome! Administrator...

DOB: 08/11/2019

Gender: Male

Email ID: admin@gmail.com

Phone Number: 9999999999

Address: Example Address

Website URL: https://www.example.com

Edit

Like we had a profile option for the normal user, Once the admin logs in to the application, he is taken to a similar profile page, where he can view and update his own information. Technically, the same page has been reused for both user and the admin. And the profile edit page works in the same way as well.

≡ User management system

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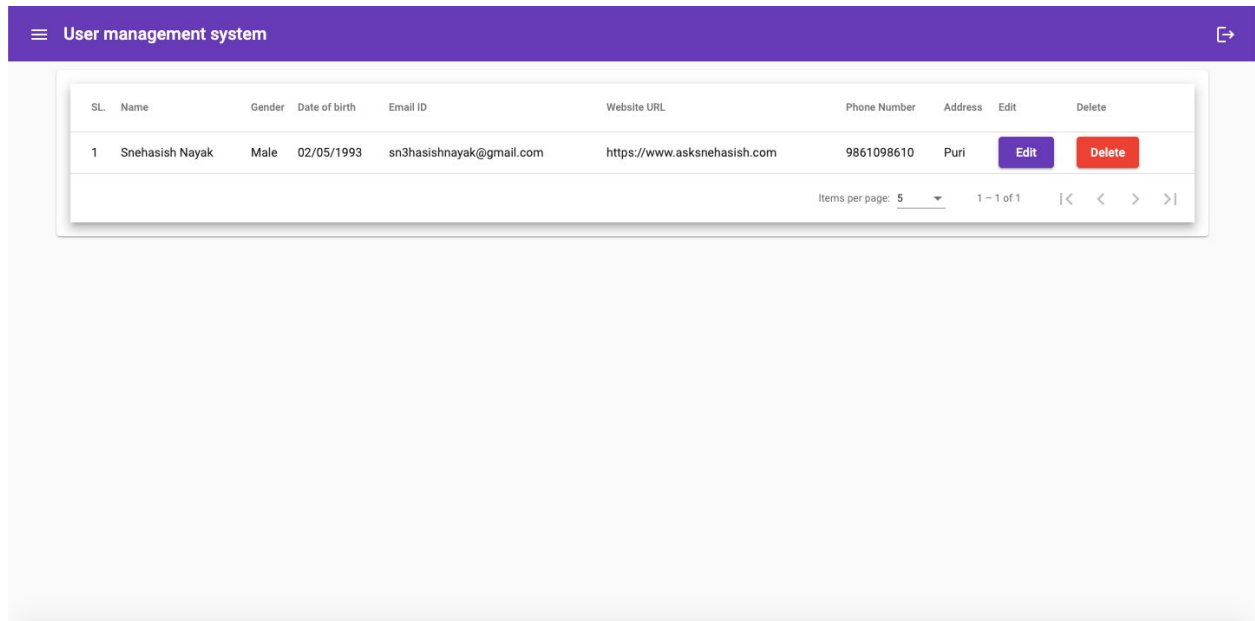
Profile Update

List Users

SL.	Name	Gender	Date of birth	Email ID	Website URL	Phone Number	Address	Edit	Delete
1	Snehasish Nayak	Male	02/05/1993	sn3hasishnayak@gmail.com	https://www.asksnehasish.com	9861098610	Puri	Edit	Delete

Items per page: 5 1 - 1 of 1 |< < > >|

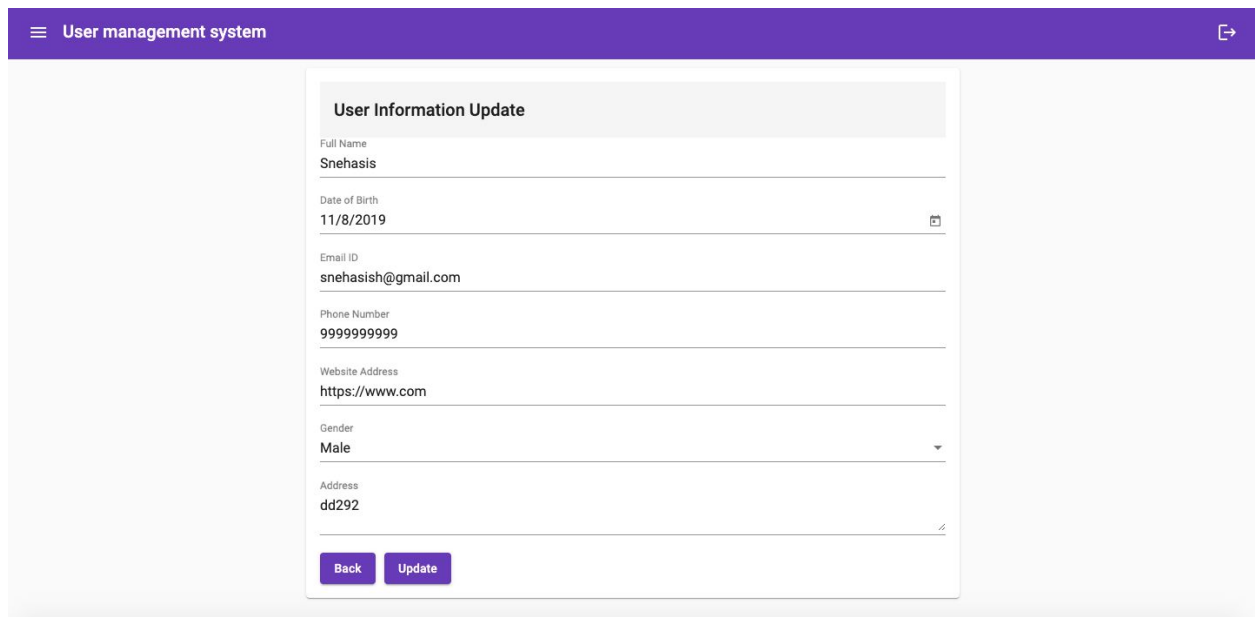
To switch to another page, “List Users” the admin has to use the side navigation and click on the link.



SL	Name	Gender	Date of birth	Email ID	Website URL	Phone Number	Address	Edit	Delete
1	Snehasish Nayak	Male	02/05/1993	sn3hasishnayak@gmail.com	https://www.asksnehasish.com	9861098610	Puri	Edit	Delete

Items per page: 5 1 - 1 of 1 |< < > >|

As suggested, the user list is populated in a tabular format with edit and delete buttons next to some basic information. The table is having pagination which can be used for paging purpose.



User Information Update

Full Name
Snehasish

Date of Birth
11/8/2019

Email ID
snehasish@gmail.com

Phone Number
9999999999

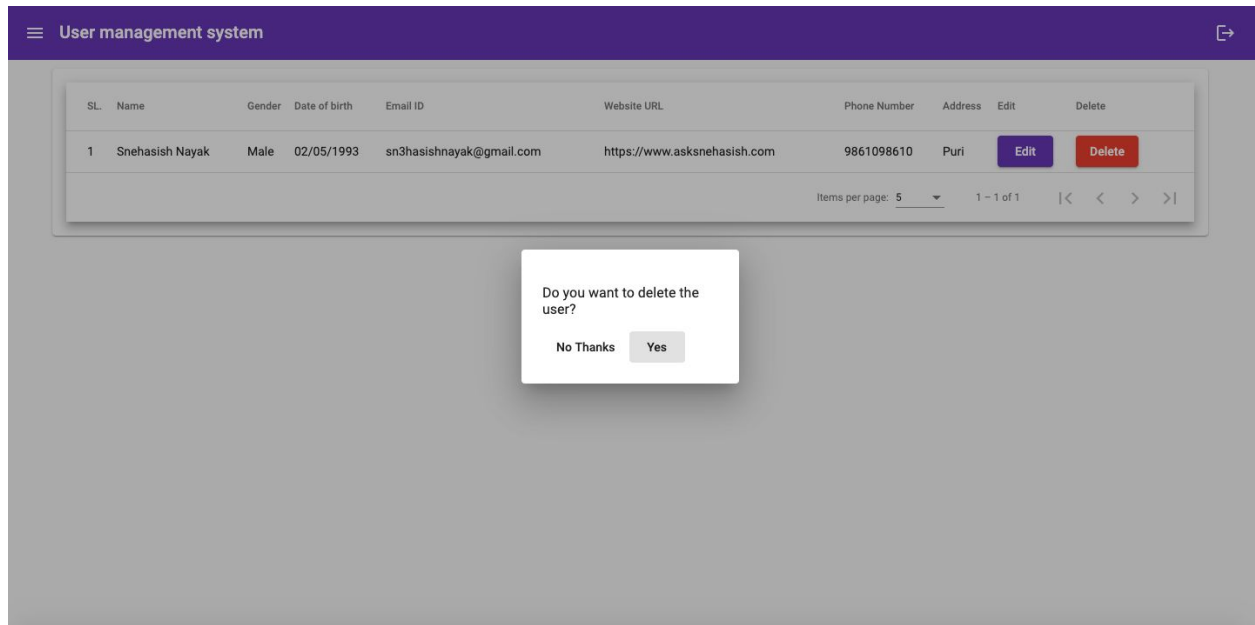
Website Address
https://www.com

Gender
Male

Address
dd292

[Back](#) [Update](#)

The edit page is similar to the page we had for profile edit. I have reused the same page for all of them.



Last but not the least, We have a delete button in the page next to each line. Once we click on it, a dialogue appears and by confirming the same, the entry is removed from the application.



The data is stored in the above format.

Thank you.