

ASSIGNMENT

Create a customer management web application. Using your knowledge of Angular / React and NodeJS complete the application. Your web application already includes the Database table structure, list of API's and UI mockups. Your task is to complete the application with following neat and clear code standards.

Below are the constraints that need to be followed by the application:

Database: MYSQL / MSSQL / MANGODB

Backend: NODE JS (If you are not aware of Node JS you can use .Net, java, etc.)

Frontend: ANGULAR / REACT

Include Internal Documentation for your site -

1. Ensure all your code uses contextual variable names that help make the files human readable
2. Ensure you include inline comments that describe your UI Design and Functionality. Note: Please avoid "over-commenting".

Assignment

Customer Web App

The below constraints are the check list that needs to be followed throughout the application.

01 Tables

02 Backend

03 Frontend

Table Creation

- a) You will need to create a new Database on MySQL / MSSQL / MongoDB Atlas.
- b) You will need to add customer and address table to store the customer and detail in a separate table.

Backend

Your task for this section is to complete the logic for each of the routes:

- a) Complete the `get('/selectCustomers')` router logic that renders the customers list.
- b) Complete the `post('/selectCustomerById')` router logic that renders the customer detail.
- c) Complete the `post('/insertCustomer')` router logic that inserts the customer detail in both table.
- d) Complete the `post('/updateCustomer')` router logic that update the values in both table.
- e) Complete the `post('/deleteCustomer')` router logic that deletes the customer value in both table.

Frontend

You will need to create a Web page to manage customer based on UI mockup provided.

Refer next page to view mockup.

Customer Page -

The screenshot displays a web application interface for managing customers. The top navigation bar includes a 'Project Name' placeholder, 'Customer Admin' role, and a user profile for 'User #01'. The left sidebar, titled 'Customers', features a search icon, a '+ Add' button, and a 'Sort by' dropdown. It lists five customer entries: Mathew Jones (matt@gmail.com), Robert Kawasaki (rob@gmail.com), Gennie Watson (genni@gmail.com), Freddy Chris (frede@gmail.com), and another Robert Kawasaki (rob@gmail.com). The main content area shows the profile of Mathew Jones, including his contact information (ID: matt2234, email: matt@gmail.com, phone: +91 8974 4545 22) and two buttons: 'Edit' and 'Delete Customer'. Below this, the 'Personal Details' section contains fields for First Name (Matthew), Last Name (Jones), Gender (Male), and Date of Birth (Aug-21-1989). The 'Address' section includes Address Line 1 (142, Bay Area, Shahpura), Landmark (Champion School), City (Bhopal), and State (Madhya Pradesh). A pagination bar at the bottom indicates 'Page 1 of 8'.

Add customer dialog box tab one:

This screenshot shows the same Customer Page interface as before, but with a modal dialog box titled 'Add User | Login Details' open in the center. The dialog box contains five input fields: 'Username*', 'First Name*', 'Last Name*', 'Password*', and 'Confirm Password*'. At the bottom of the dialog are two buttons: 'Cancel' (with a close icon) and 'Proceed' (with a checkmark icon). The background content, including the customer list and the details for Mathew Jones, is visible but slightly faded behind the dialog.

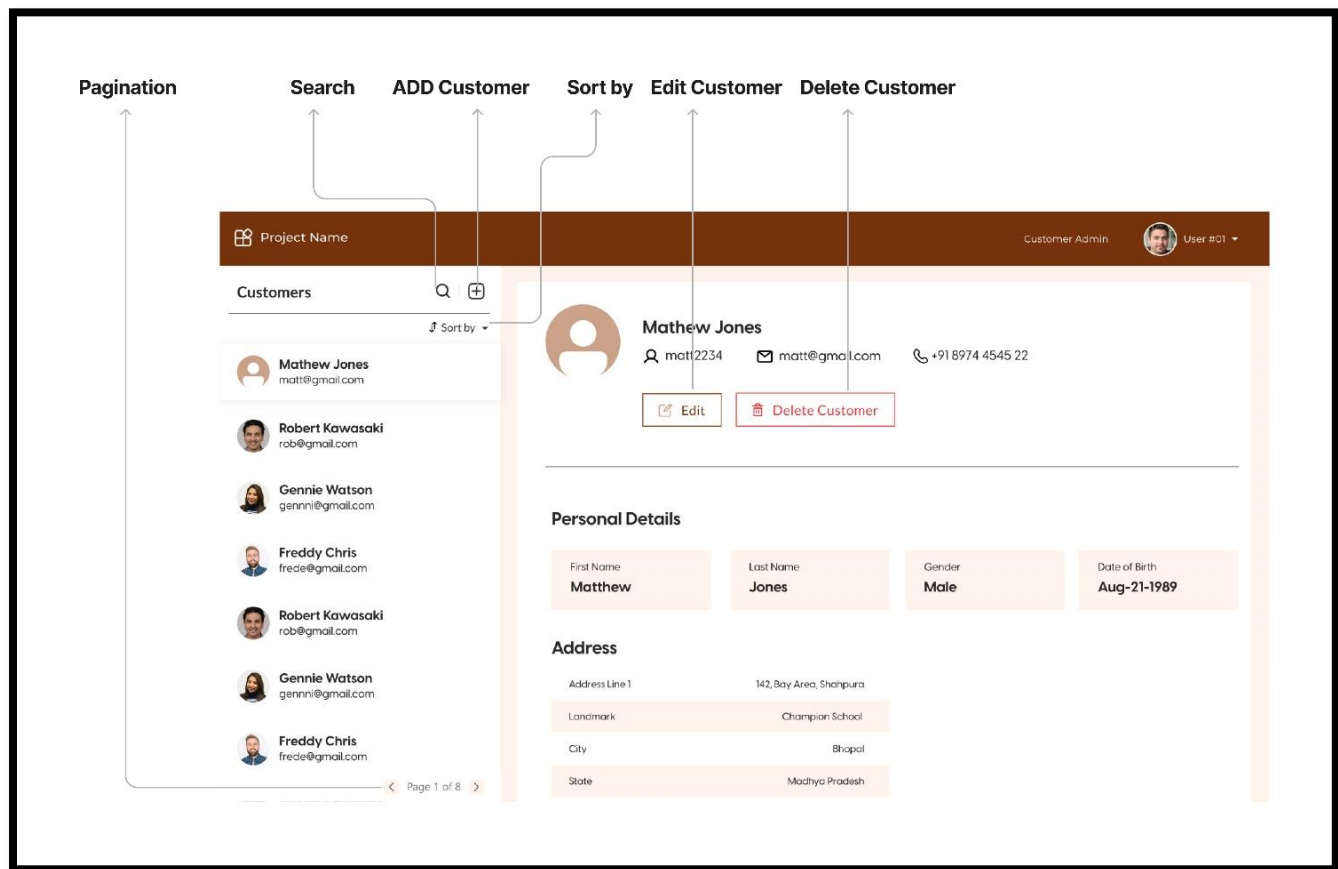
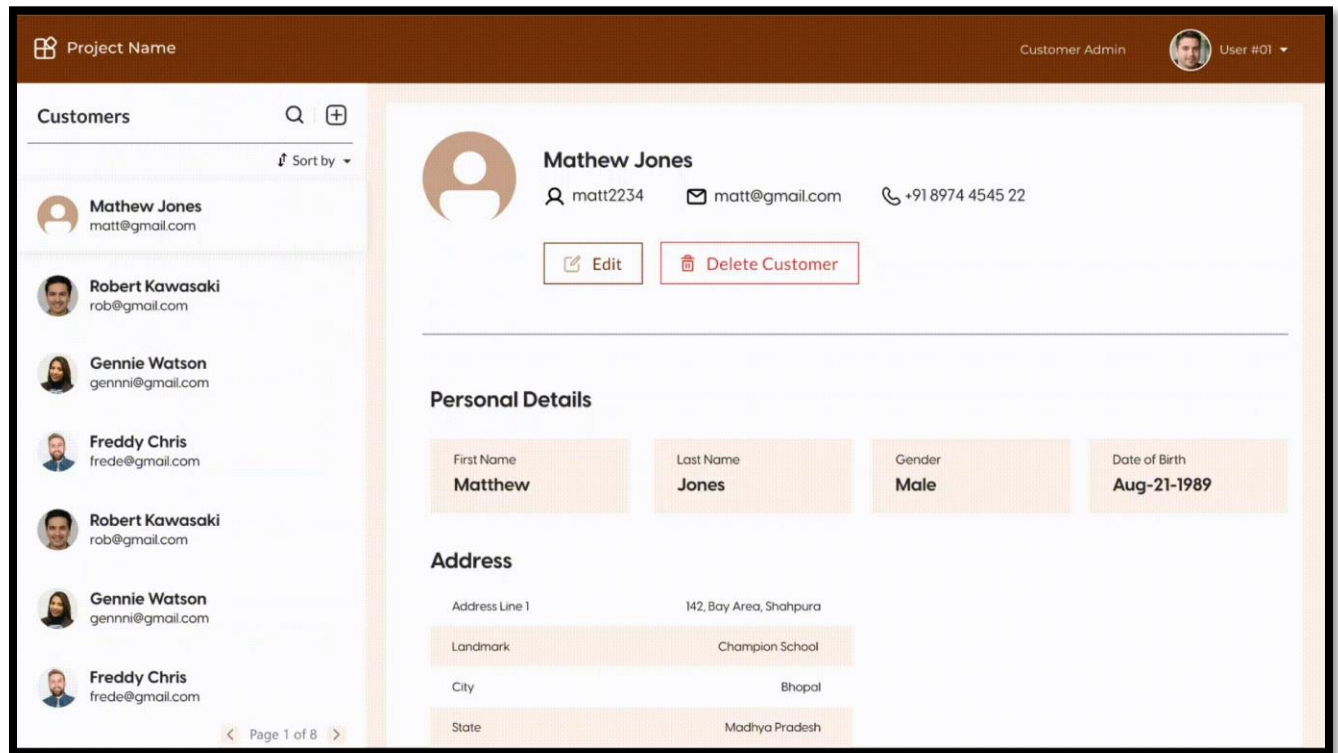
Add customer dialog box tab two:

The screenshot shows a web application interface with a dark brown header. The header contains a 'Project Name' label, a 'Customer Admin' role indicator, and a user profile icon labeled 'User #01'. On the left, a 'Customers' sidebar lists several users: Mathew Jones (matt@gmail.com), Robert Kawasaki (rob@gmail.com), Gennie Watson (genni@gmail.com), and Freddy Chris (frede@gmail.com). The main content area is partially obscured by a modal dialog titled 'Add User | Profile Details'. This dialog has a 'Profile pic' section with an 'Upload file' button. Below this are input fields for 'Address Line 1*', 'Country*', 'State*', 'City*', and 'Zip code*'. At the bottom of the dialog are 'Cancel' and 'Save' buttons. In the background, a customer profile for Mathew Jones is visible, showing contact information (+91 8974 4545 00), gender (Male), and date of birth (Aug-21-1989).

Customer list with multi search:

The screenshot displays a web application with a dark brown header. The header includes a 'Project Name' label, a 'Customer Admin' role indicator, and a user profile icon labeled 'User #01'. On the left, a search bar is labeled 'Search By' and 'Search here'. Below the search bar, a list of customers is shown: Mathew Jones (matt@gmail.com), Robert Kawasaki (rob@gmail.com), Gennie Watson (genni@gmail.com), Freddy Chris (frede@gmail.com), and Robert Kawasaki (rob@gmail.com). The main content area shows a detailed profile for Mathew Jones. The profile includes a large profile picture placeholder, the name 'Mathew Jones', and contact information: phone number (+91 8974 4545 22), email (matt@gmail.com), and a unique ID (matt2234). Below the contact information are 'Edit' and 'Delete Customer' buttons. The profile is divided into two sections: 'Personal Details' and 'Address'. The 'Personal Details' section includes fields for 'First Name' (Matthew), 'Last Name' (Jones), 'Gender' (Male), and 'Date of Birth' (Aug-21-1989). The 'Address' section includes fields for 'Address Line 1' (142, Bay Area, Shahpura), 'Landmark' (Champion School), 'City' (Bhopal), and 'State' (Madhya Pradesh). At the bottom of the sidebar, there is a pagination control showing 'Page 1 of 8'.

The below GIF image explains the whole UI functionality:



Customer Application Structure –

