**Customer Management System**

A simple Customer Management System built with React.js (frontend), Node.js, and MongoDB (backend).

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# **Features**

1. Mobile number validation.
2. Adding a new customer.
3. Updating existing customer details.
4. Deleting a customer.
5. Fetching all customers.

# **API Documentation**

## Mobile Number Validation API:

Endpoint: http://localhost/number\_validator\_service/validateNumber

Method: POST

Body Parameters: mobileNumber

Response: A JSON object (valid number) or an error message (invalid number).

## Add Customer API:

Endpoint: http://localhost/web\_service/customers/

Method: POST

Body Parameters: name, address, mobileNumber

Response: A success message or an error message.

## Update Customer API:

Endpoint: http://localhost/web\_service/customers/:id

Method: PUT

URL Parameters: id

Body Parameters: name, address, mobileNumber

Response: A success message or an error message.

## Delete Customer API:

Endpoint: http://localhost/web\_service/customers/:id

Method: DELETE

URL Parameters: id

Response: A success message or an error message.

## Get All Customers API:

Endpoint: http://localhost/web\_service/customers/

Method: GET

Response: A JSON array of all customer objects or an error message.

# **Installation**

* Install Node.js .
* Clone this repository: git clone https://github.com/rami3rouhana/areeba\_project/.
* Add the .env for each backend service according to example.env.
* Navigate to the project directory: cd areeba\_project .
* Start Docker: docker-compose up .

# **Usage**

* Start the server: docker-compose up.
* Open a web browser and navigate to http://localhost

# **Code Efficiency and Improvements**

* Efficiency: The mobile number validation API is highly efficient as it leverages third-party APIs.
* Improvements: The error handling and input validation in the codebase can be improved, and we can add a circuit breaker on the validation api call. (Fail Safe)