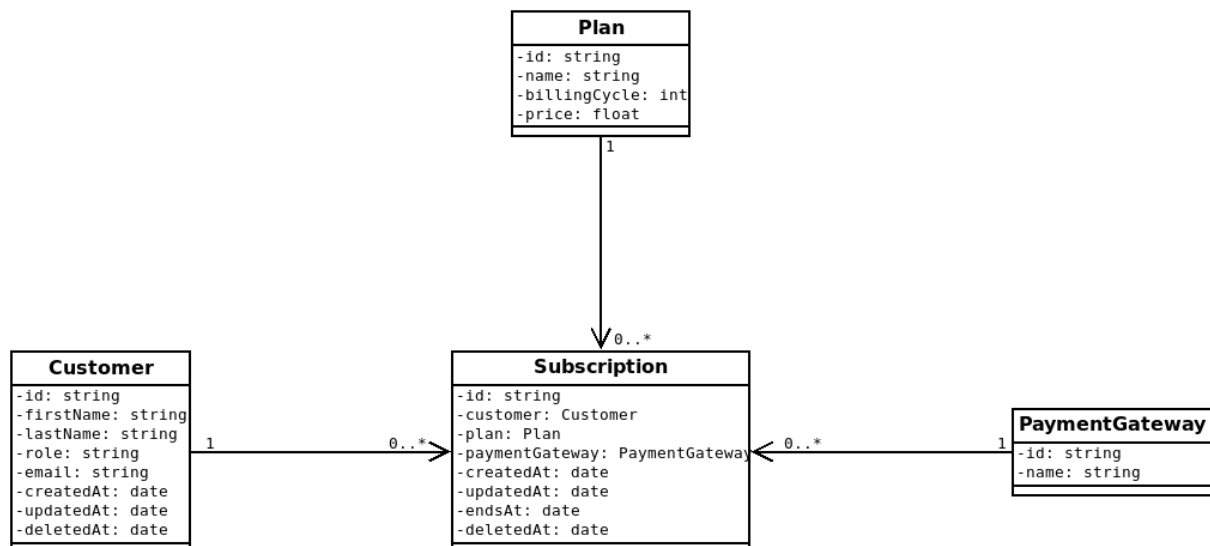


Full-Stack Developer Test

The Customer Service staff has a demand to manage the data of all Scopio customers. In this first phase, a simple Customer Management area will be created.

You will need to implement a solution in which Scopio staff will be able to manage the basic data of all clients and their subscriptions.

The backend must be developed using **Node.js**, with **Apollo Server** and **GraphQL**. You must use **TypeScript** as the default language. The data must be stored on a **PostgreSQL** database, using **Sequelize** as the ORM. The Sequelize models must use the pascal case, the fields camel case, and the database objects must use the snake case. The model must be based on the following class diagram:

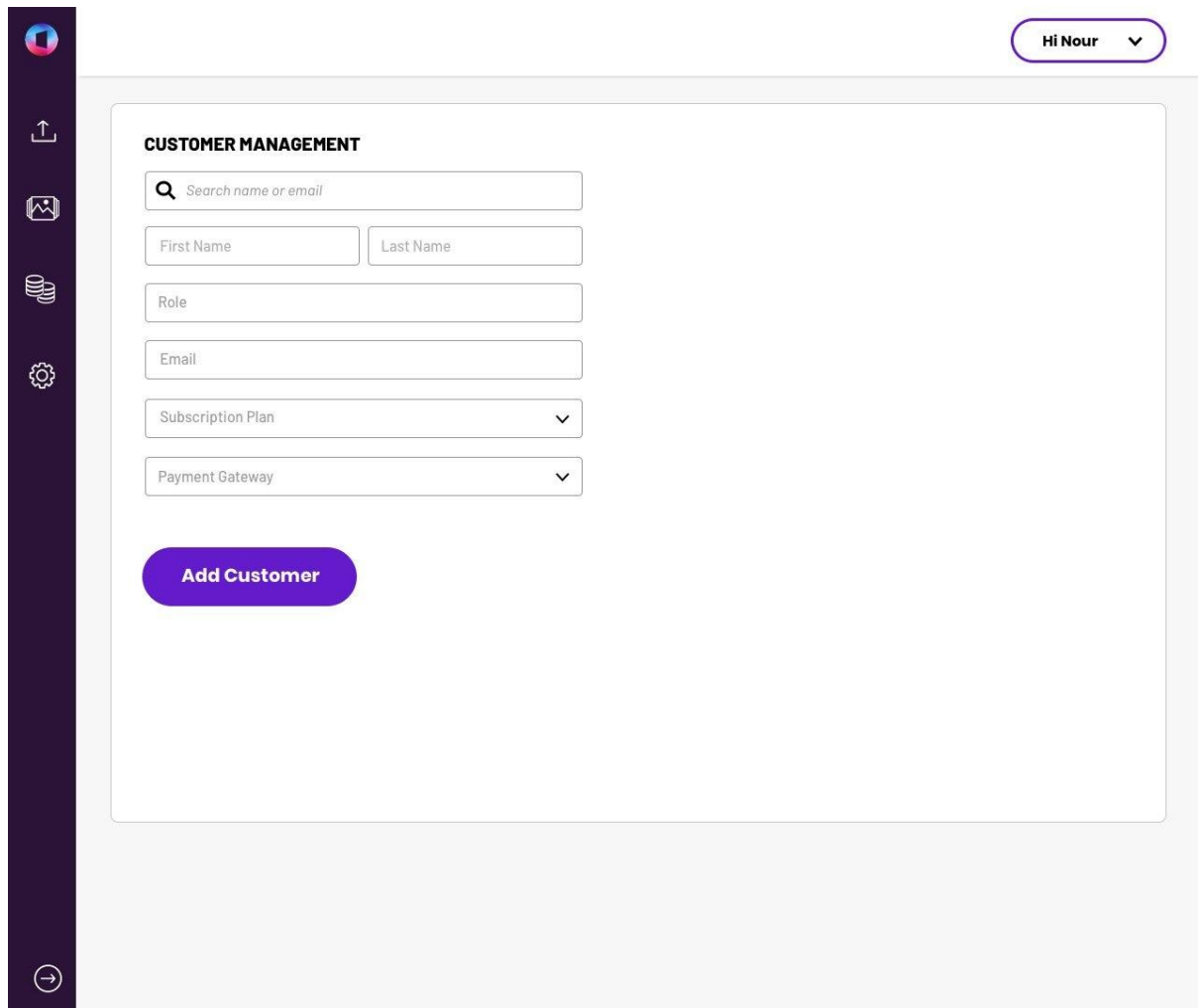


The Staff, Plans, and Payment Gateway data can be managed directly on the database. The main Payment Gateways accepted by Scopio today are Stripe and PayPal. The list of Plans can be accessed on the [Scopio Subscription](#) page.







The frontend must be developed using **React.js**, with **Apollo Client** following precisely what was designed in the mockups below. You must use **Material UI** for the form components. It must be mobile responsive as well.

You can click on the images to download the mockups in a higher resolution.

The Customer Management screen contains a Search field and a blank form to create a new Customer:



The screenshot displays the 'CUSTOMER MANAGEMENT' interface. On the left is a dark purple sidebar with icons for home, back, gallery, database, and settings. At the top right, a user profile 'Hi Nour' is shown with a dropdown arrow. The main content area is titled 'CUSTOMER MANAGEMENT' and contains a search bar with the placeholder 'Search name or email'. Below the search bar are input fields for 'First Name', 'Last Name', 'Role', and 'Email'. There are also two dropdown menus for 'Subscription Plan' and 'Payment Gateway'. A prominent purple button labeled 'Add Customer' is positioned below the form fields.

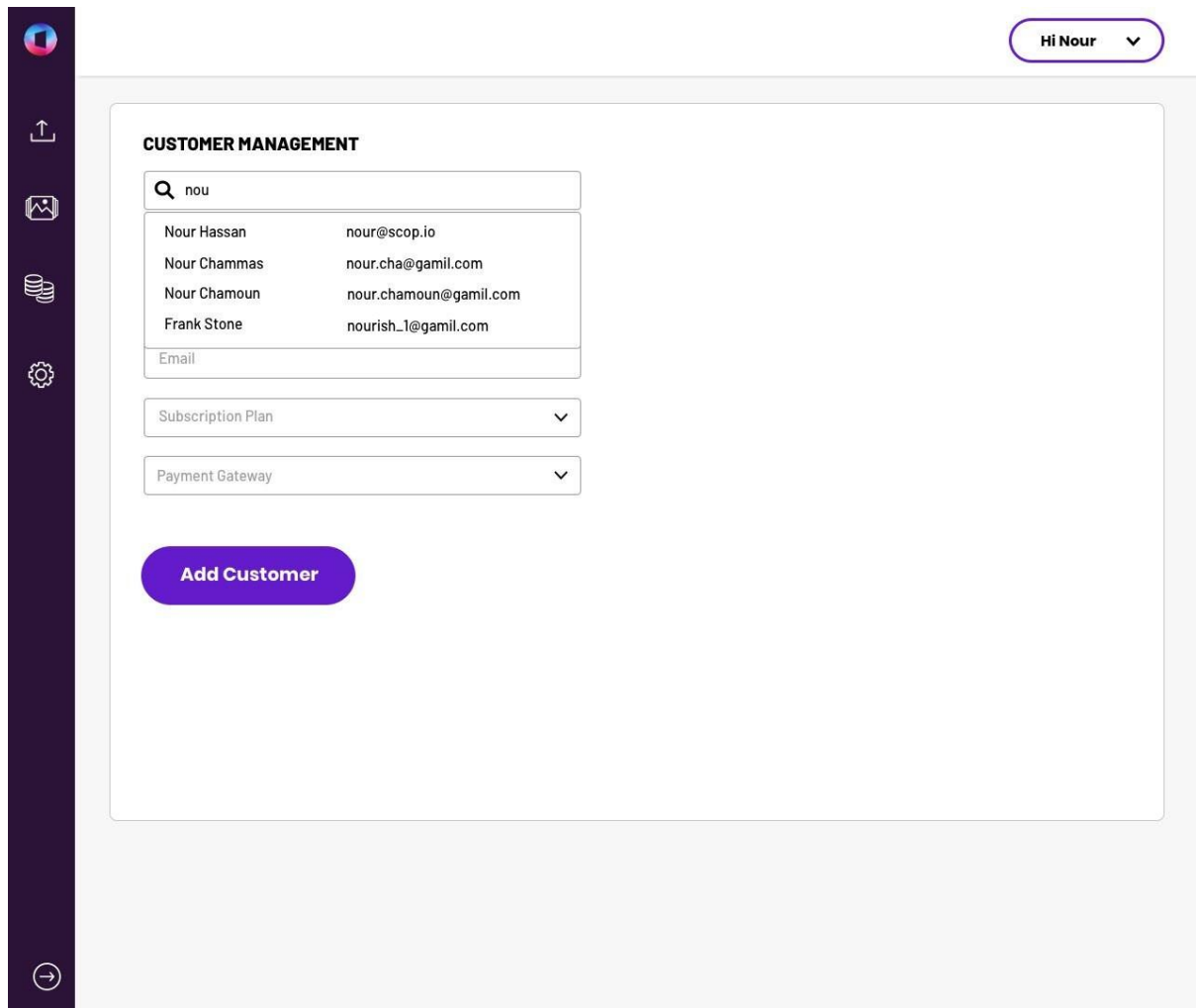


Hi Nour ▾

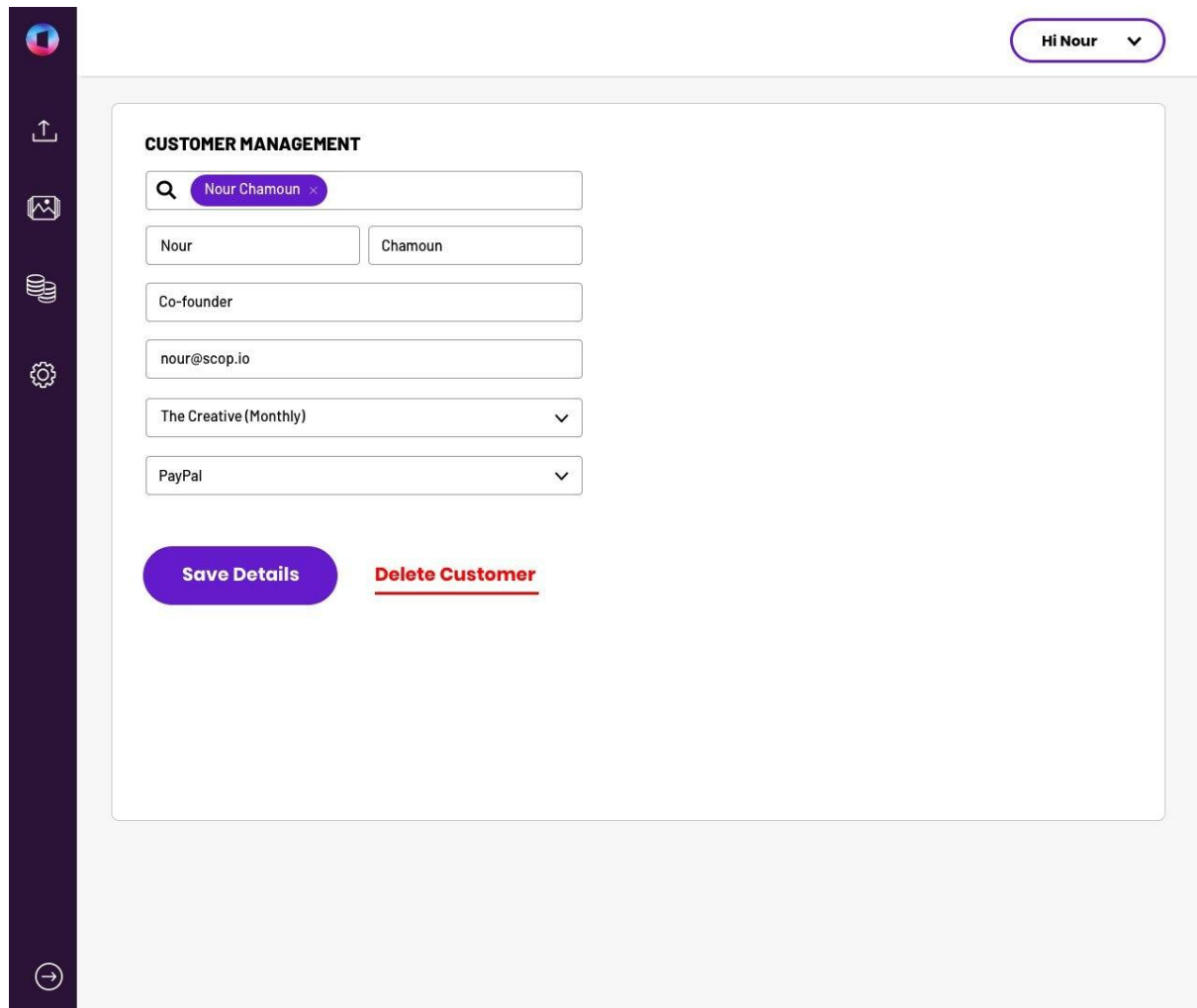
CUSTOMER MANAGEMENT

Add Customer

When the user starts typing in the Search field, an autocomplete dropdown should be displayed with the list of existing Customers to be selected:



When a Customer is found and selected, their data must be displayed in the form, the button label must be changed to Save Details and a Delete Customer button must be displayed:



The screenshot displays a web application interface for customer management. On the left is a dark purple sidebar with icons for home, back, image, database, and settings. At the top right, a user profile bubble shows 'Hi Nour' with a dropdown arrow. The main content area is titled 'CUSTOMER MANAGEMENT' and contains a search bar with 'Nour Chamoun' selected. Below the search bar are input fields for 'Nour' and 'Chamoun', followed by a 'Co-founder' field and an email field 'nour@scop.io'. There are two dropdown menus: 'The Creative (Monthly)' and 'PayPal'. At the bottom, there is a purple 'Save Details' button and a red 'Delete Customer' link.

CUSTOMER MANAGEMENT

Search: Nour Chamoun ✕

Nour: Chamoun:

Co-founder:

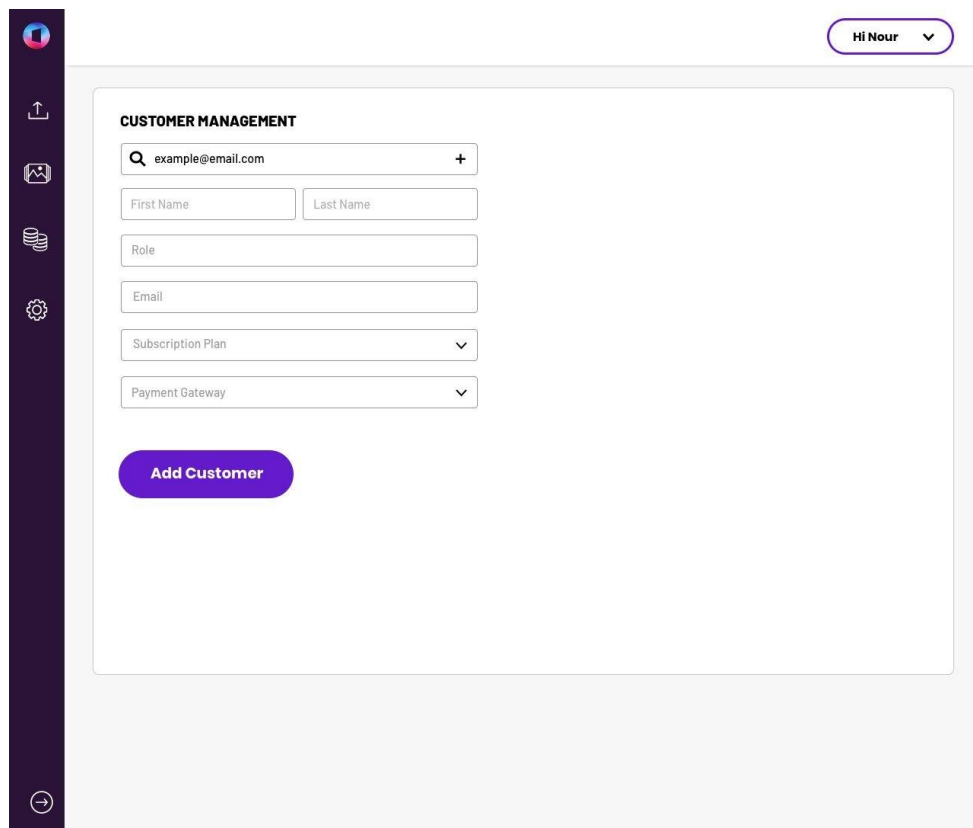
Email:

Subscription: ▼

Payment Method: ▼

[Save Details](#) [Delete Customer](#)

If no Customer is found, display a “plus” button to allow the user to automatically fill out the form with the name or email they added to the Search field:



The screenshot shows a web interface for "CUSTOMER MANAGEMENT". On the left is a dark purple sidebar with icons for home, upload, gallery, database, and settings. At the top right is a user profile "Hi Nour" with a dropdown arrow. The main form area has a search bar with "example@email.com" and a plus button. Below the search bar are input fields for "First Name", "Last Name", "Role", and "Email", followed by dropdown menus for "Subscription Plan" and "Payment Gateway". A purple "Add Customer" button is at the bottom.

CUSTOMER MANAGEMENT

Search: example@email.com +

First Name Last Name

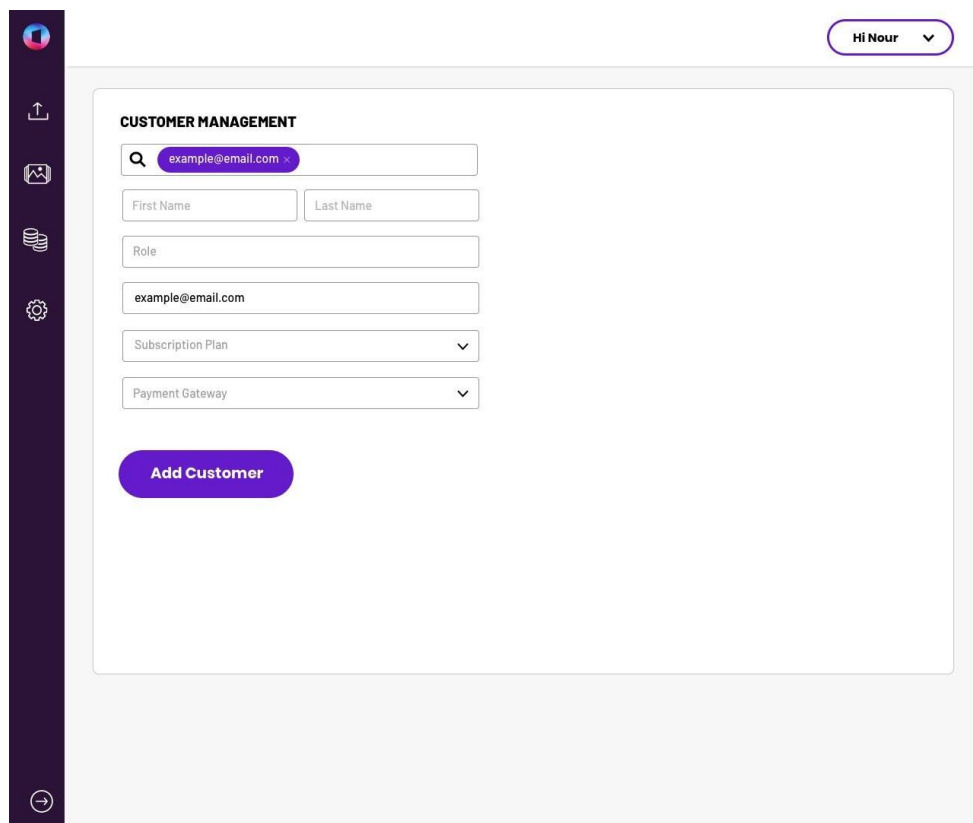
Role

Email

Subscription Plan

Payment Gateway

Add Customer



This screenshot shows the same "CUSTOMER MANAGEMENT" form, but the search field now contains a customer card for "example@email.com". The card displays the email address and a close button. The other form fields remain empty.

CUSTOMER MANAGEMENT

Search: example@email.com x

First Name Last Name

Role

example@email.com

Subscription Plan

Payment Gateway

Add Customer

We will create a GitHub repository where you can deliver the code. We expect you to make small working commits, so we will be able to see the progress of your codebase and analyze your development approach. To simplify things for this test, both frontend and backend codebase will be stored in the same repository, and you can separate those projects into specific directories.

Please, send an email to edgar@scop.io with your GitHub username, so we can add you to the repository.

Feel free to contact us if you have any questions.

Good luck!