

## Marcura Front-End Developer Test

We want to create a simple web application to list all cost items related to a voyage. To simplify the task, we've excluded all unnecessary details and focused on displaying and working with Expense Categories and Cost Items only. As per attached .jpg files.

The task is to create an Angular application (using latest Angular version and CLI) with these requirements in mind:

- Application should be build using TypeScript and have all data types created as TypeScript interfaces.
- Application should be possible to run using *ng serve* – default Angular CLI option.
- Application routing should use resolvers to fetch Expense Categories (*costs.json*) and Exchange Rates (*exchange-rates.json*). These files can be placed in */assets* folder and HTTP Client to be used to fetch them (to mock API behaviour).
- List of Expense Categories and Cost Items should be presented as below.
- Costs to have values in two currencies for each cost type: DA Currency and Base Currency. Exchange Rate to Base Currency is available in *costs.json* file (*baseCurrency.exchangeRate*).
- Costs types to display are: Quoted (type: *Quoted*) and Screened (type: *Screened*).
- Comments should be available to read by clicking on the comments icon. The comment icon should expand/collapse this section of comments.
- It should be possible to change the main currency that is used to display costs. All available currencies with corresponding FX rates are listed in *exchange-rates.json*.  
Doing so, will recalculate the cost in DA Currency and display to the user. To do so, each individual cost item needs to be multiplied by the selected currency's exchange rate.
- Costs to be rounded to two decimal points.
- Total section for each expense category should be displayed
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### Example:

Given:

Port Expenses as Category

and

Barge Expenses and Fire Guard as cost items, with values as below

and

SGD/EUR exchange rate as in *costs.json* (1 SGD = 0.7598199759292418 USD)

and

SGD/EUR exchange rate as in *exchange-rates.json* (1 SGD = 0.6292198838719976 EUR)

the initial table should display following costs:

Port Expenses	Quoted	Screened
Barge Expenses	SGD 1000 USD 759.82	SGD 2000 USD 1519.64
Fire Guard	SGD 2000 USD 1519.64	SGD 1000 USD 759.82

By selecting EUR from the dropdown, the costs should be recalculated as shown below. Note the USD value stays unchanged.

Port Expenses	Quoted	Screened
Barge Expenses	EUR 629.22 USD 759.85	EUR 1258.44 USD 1519.64
Fire Guard	EUR 1258.44 USD 1519.64	EUR 629.22 USD 759.85

