Avnon Web Developer Assessment

Technologies & Frameworks: Angular 17.3 or above, RxJS, Signal, TailWind CSS, Typescript
Time allocation: 5 hours
Partial Submission allowed: No
API Access Required: No

Brief

Create a basic Budget Builder table where users can input their expected income and expenses per month for the selected date range.

Key considerations:

The UI behaviour should feel like Excel. The initial page state will have a 12 month range and the input will be focused on the first cell, so the user can immediately start typing and press enter to create new category rows. They should also be able to tab to next row from the last cell in a row. Users can navigate back and forth using arrow keys.

Use 0 as the opening balance and then carry the profit / loss to the next month

Right clicking on a cell should display a popup which says 'Apply to all' which will copy the value into all the corresponding cells.

The sub totals and overall totals should update as the user starts inputting a value.

Keep the code as light and clean

Income and expense categories are grouped under parent categories, each with their own sub categories.

Delete row is required

The months array will vary depending on the start and end month the user selects, i.e. the user chooses January 2024 to December 2024 it'll show 12 months, if the user choose January 2024 to July 2024 it'll show 7 months. Default to January – December 2024.

Once completed check into a GitHub repo and send the invite to daniel@avnonconsulting.com

Budget Builder Example

Start Period V End Period V	January 2024	February 2024
Income		
General Income	100	120
Sales	200	400
Commission	0	200
Add a new 'General Income' Category		
Sub Totals	300	720
Other Income		
Training	500	550
Consulting	500	600
New income category		
Sub Totals	1000	1150
Add New Parent Category		
Income Total	**1300**	**1870**
Expenses		
Operational Expenses	50	100
Management Fees	100	200
Cloud Hosting	200	400
Add new 'Operational Expenses' category		
Sub Total	350	700
Salaries & Wages		
Full Time Dev Salaries	100	120
Part Time Dev Salaries	80	80
Remote Salaries	20	0
Add new 'Sales and Wages' category		
Sub Total	200	200
Add new Parent Category		
Total Expenses	550	900
Profit / Loss	750	970
Opening Balance	0	750
Closing Balance	750	1720