

## Machine Test - Javascript Developer

### Scope:

The client has asked you to create an Order Management system for his company. The client has the following sample products:

| Product ID | Product Name                  | Price   | Expiry     |
|------------|-------------------------------|---------|------------|
| 40001      | OMNiX P1 Plus Sports Band     | 3499.00 | 12/13/2019 |
| 40002      | Opta SB-001 Bluetooth tracker | 2249.00 | 12/12/2020 |
| 40003      | Mi Band - HRX Edition         | 1299.00 | 09/10/2019 |
| 40004      | Fastrack Reflex Smartwatch    | 1495.00 | 05/05/2020 |
| ....       |                               |         |            |

For the first phase of the Project, clients want the following functionality to be developed:

- Dashboard
- Add Order

Following mockup has been provided by the client for Dashboard:

## Slora Agro Company Private Limited

### Top 20 Selling Products (Last 7 days)

**New Order**

| PRODUCT ↓    | QUANTITY ↓ | Total Amount (\$) ↓ |
|--------------|------------|---------------------|
| Harvest Firm | 100        | 1,125,002.23        |
| Machine Firm | 99         | 125,659.63          |
| Organzoid    | 98         | 225,366.69          |
| Dawn Organic | 95         | 599,366.66          |
| ....         |            |                     |

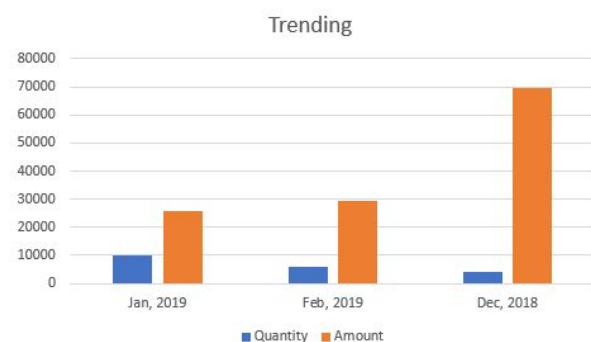
### High vs Low

| TOTAL SALE TILL DATE | HIGHEST SELLING PRODUCT | LOWEST SELLING PRODUCT |
|----------------------|-------------------------|------------------------|
| 25,452,655.36        | Organworks              | Breeder Organic        |

### Sale in the last 3 months


|          |             |
|----------|-------------|
| Feb 2019 | \$25,659.63 |
| Jan 2019 | \$29,366.89 |
| Dec 2018 | \$69,656.36 |

### Quantity vs Sale



Clicking on the **“New Order”** button will open the following screen as popup where the user will be able to add Order. The product will be in the dropdown. Selecting a product will populate its price in a label.

**New Order**

|  |  |
|--|--|
| Order Date   | <input type="text" value="9/25/2018"/>  |
| Product  | <input type="text" value="OMNiX P1 Plus Sports Band"/> ▼   |
| Price  | 12,548.00  |
| Sale Price   | <input type="text" value="Sale Price"/>  |
| <div><input type="button" value="Save"/> <input type="button" value="Cancel"/></div> |  |

#### Validations:

- Top 20 Selling Products (Last 7 days) > Sorting on each column
- **“Sale in the last 3 months”** > Starting from the current month.
- **“Quantity vs Sale”** > Use any Lightweight library with tooltip shows the value.
- **“New Order”** > Order date should be date picker control with the
  - User should not allow selecting the date lower than today - 7 days
  - Date validation
- **“New Order”** > Product > Should be a searchable drop-down.
- **“New Order”** > Product > Populate only non-expiry products
- **“New Order”** > Sale Price > Should be 10.5% higher than the **“Price”** and add 13.5% GST on top of it.
- **“New Order”** > Save Button > It should Auto-refresh the dashboard without page refresh.

#### Expectations/Preferences:

- Use Angular 4.0+ (you can use any other lightweight framework like React/Redux)
- An opensource database like MySQL/PGSQL/SQL Express
- Preference to create an API layer to communicate between Database and Frontend. NodeJS can be used.

#### Source Code Supply

- ZIP all the source code including database dump (Schema and data)
- Steps to install the application to our environment.