The task for front end

 You need to design pages & provide the option to download the below reports, using the Excel data provided in the mail.

* Report Summary.
* Inventory Aging Report
* Backorder Report

**Page 1: Summary Page**

**Inventory Summary report**

You need to design a report that shows overall data in a tabular/ graphical way.

* Filters by date: Order data-> By default it should show data for all the dates. On change of date, the below data should also be changed depending on the order date.
* Display important data points such as
  + Total Warehouse
  + Number of Category
  + Number of Products
  + Number of Vendors
  + How many Shipped and Received
  + Total order quantity.
  + Total available quantity.
* Use Graphs and Tables.(table should be downloadable in Excel)
  + Graph 1: Shipped Vs Received(for all data)
  + Graph 2: Vendor Wise: Total order qty and Total available qty
  + Graph 3: We want a dropdown, on selecting any Category below graph data should be changed accordingly.
    - Total order qty and Total available qty should be displayed in the graph.
    - How many Shipped and Received
  + Table 1: We want Category-wise Total order qty and Total available qty
  + Table 2: We want Warehouse-wise Total order qty, Total available qty, how many shipped and how many received.
* Export Options:
  + Where we can download the entire page into the PDF.
  + Wherever there are tables we want them to be exported to Excel.

**New page 2 : Report Page**

**Inventory Aging Report:**

* X axis (days - 0-30, 31-60, 61-90,  91-120 & others)
* Y axis (stock quantity))
* We need 2 graph,
  + 1st graph: where you need to provide the list of Categories on selecting that category data has to be changed in the Inventory Aging graph.
  + 2st graph: where you need to provide the list of products on selecting that product data has to be changed in the Inventory Aging graph.

How to calculate the Aging Report?

**Inventory Aging Report**

An Inventory Aging Report helps businesses track how long their inventory items have been in stock. You need to use Order data(column Y from excel) and available qty(column AB from excel) for comparison.

**Axes Explanation**

**X-Axis: Days (Aging Categories)**

* This axis categorizes inventory based on how long it has been in stock. The categories are:
  + **0-30 Days**: New inventory that is still fresh.
  + **31-60 Days**: Inventory that has been in stock for over a month but is still relatively recent.
  + **61-90 Days**: Inventory that is approaching a three-month mark.
  + **91-120 Days**: Items that have been in stock for three to four months.
  + **Others**: Any inventory that has been in stock for longer than 120 days, or items that don’t fit into the above categories.

**Y-Axis: Stock Quantity**

* This axis indicates the total quantity of stock available for each aging category. Higher values represent more stock, while lower values indicate less stock.

**Example :**

Consider today is 30-09-2024

**0-30 Days :** You need to get data total count of **AvaliableQuantity** from 30-09-2024 to 31-08-2024().

The same goes for others.

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**Backorder Report**

A Backorder Report is a document or tool that provides information about items that have been ordered but are not currently in stock and cannot be fulfilled immediately. This report is essential for inventory management and customer service, helping businesses track outstanding orders and manage customer expectations.

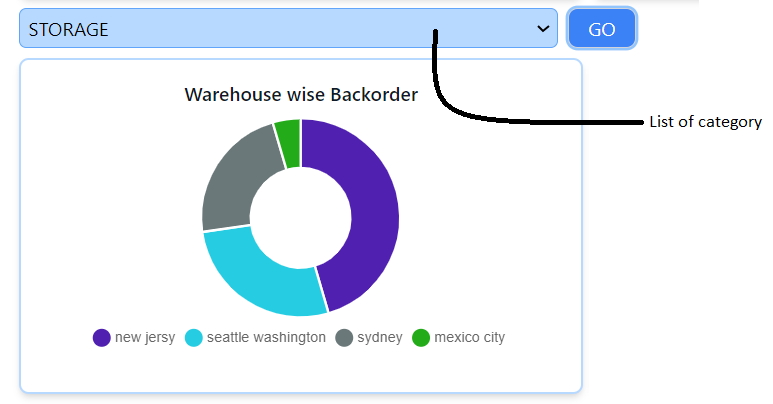
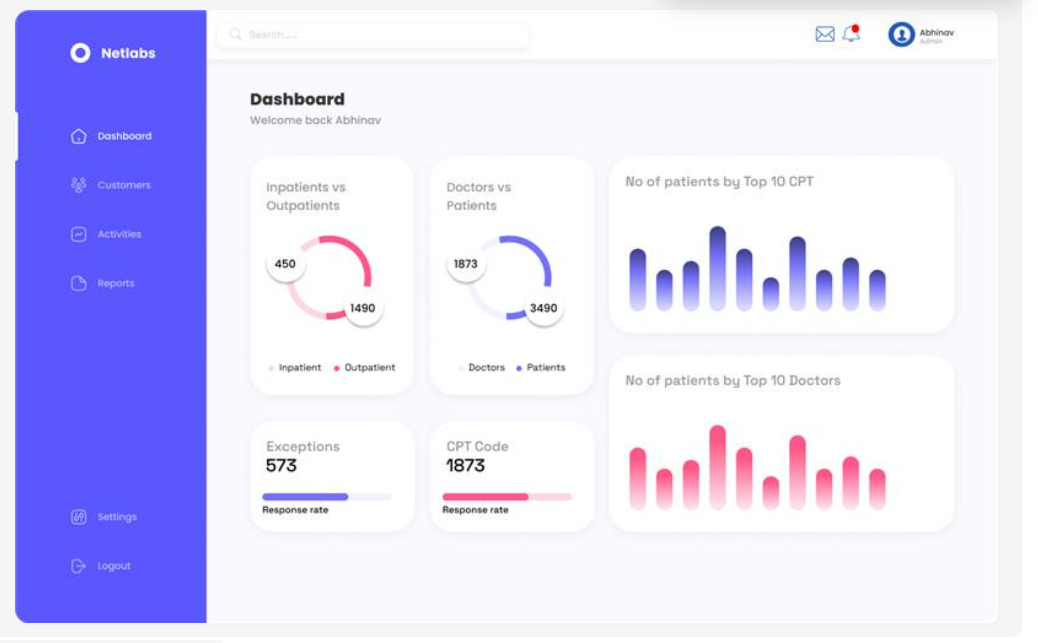
How to calculate the **Backorder Report**?

Column(Z) > Column(AB) - then it comes under backorder and does the difference between AB - Z and shows the back order quantity as well

If column(Z) < column(AB) then it doesn't have any backorders

 apply filters - category wise.

Below is the example.

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