

# This week, you will integrate the work completed during Weeks 7 and 8

You can now find the solutions for Weeks 7 and 8 on Canvas.

Dashboard developed in Week 7 with sample output

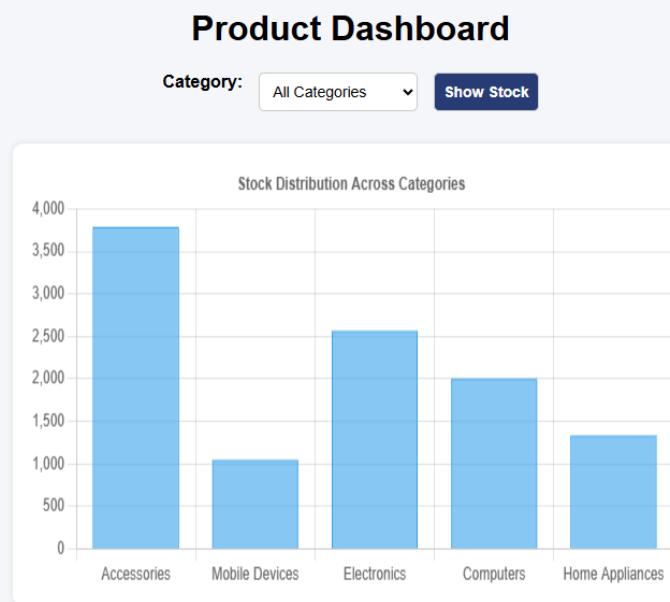
Product Dashboard

Product Name:	<input type="text" value="Enter product name"/>	Category:	<input type="text" value="Electronics"/>	Min Price:	<input type="text" value="800"/>	Max Price:	<input type="text" value="10000"/>	<button>Search</button>
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_id	Product Name	Category	Price	Stock	Sales Count
PID006	Smartphone	Electronics	1115.42	163	993
PID016	Laptop	Electronics	1522.96	77	727
PID027	Headphones	Electronics	851.29	174	662
PID031	Tablet	Electronics	1167.11	72	972
PID043	Smartphone	Electronics	1089.75	196	966
PID048	Smartphone	Electronics	1165.49	175	303
PID050	Monitor	Electronics	1742.93	127	787
PID051	Monitor	Electronics	1896.79	124	164
PID064	Headphones	Electronics	1767.42	26	404
PID068	Printer	Electronics	1496.66	11	284
PID082	Monitor	Electronics	1174.09	196	759

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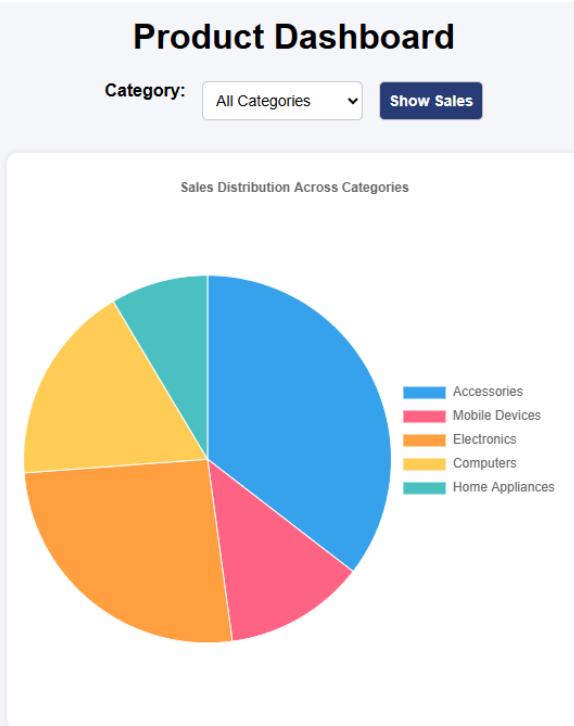
Dashboard developed in Week 8 with sample outputs



_id	Product Name	Category	Price	Stock	Sales Count
PID001	Keyboard	Accessories	1584.4	120	804
PID002	Camera	Mobile Devices	221.39	117	422
PID003	Tablet	Electronics	454.09	156	548
PID004	Mouse	Accessories	982.04	163	306

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Dashboard developed in Week 8 with sample outputs



_id	Product Name	Category	Price	Stock	Sales Count
PID001	Keyboard	Accessories	1584.4	120	804
PID002	Camera	Mobile Devices	221.39	117	422
PID003	Tablet	Electronics	454.09	156	548
PID004	Mouse	Accessories	982.04	163	306
PID005	Mouse	Computers	1055.44	74	264

You will combine the dashboards developed in previous weeks into a single integrated dashboard. The input panel will remain the same as the one created in Week 7.

## Product Dashboard

Product Name

All Categories ▼

Min Price

Max Price

Search

When the “Search” button is clicked, the system should process all inputs: **Product Name**, **Category**, **Min Price**, and **Max Price**, and generate three outputs (see sample on next page):

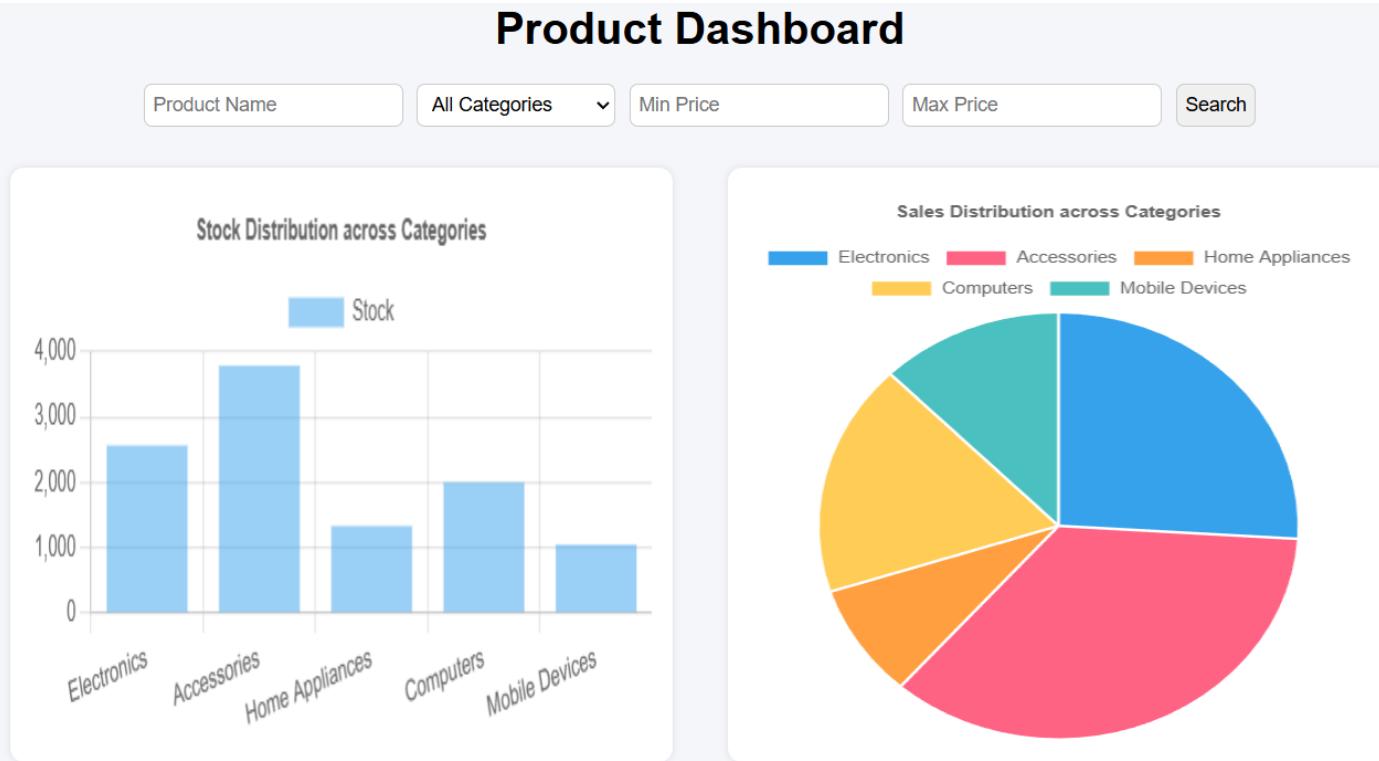
1. **Top Left:** A **bar chart** showing **stock distribution** across categories.
2. **Top Right:** A **pie chart** showing **sales distribution** across categories.
3. **Bottom:** A **table** displaying the filtered results based on the user’s input.

Behaviour (same as Week 8):

- If **all categories** are selected → charts show distributions across **all categories**.
- If a **specific category** is selected (e.g., Electronics) → charts update to show distributions **per product name** within that category.

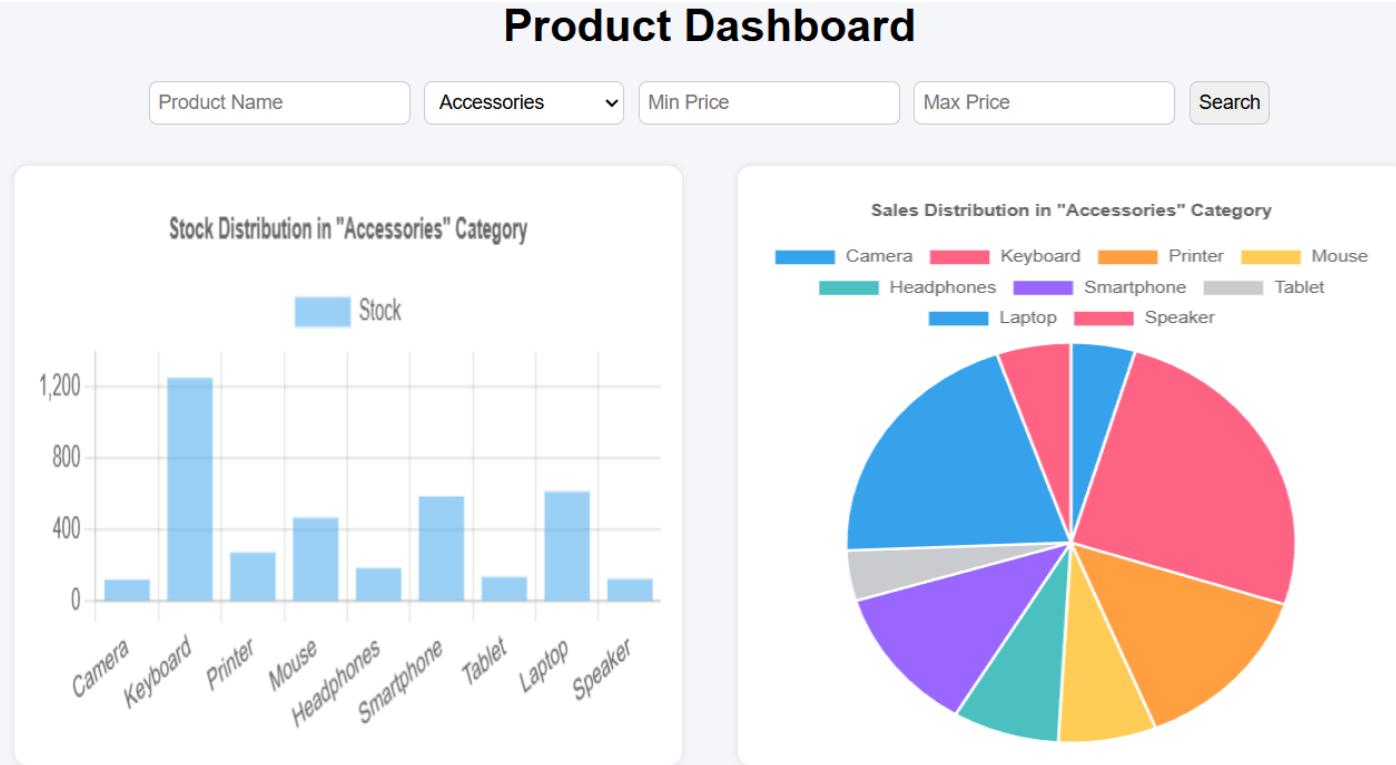
Sample output 1: All categories were selected, so the bar chart and pie chart display the stock and sales distribution across all categories.

Three output components are generated. (Note: The table view is shown partially.)



_id	Product Name	Category	Price	Stock	Sales Count
PID006	Smartphone	Electronics	1115.42	163	993
PID008	Camera	Accessories	182	84	227

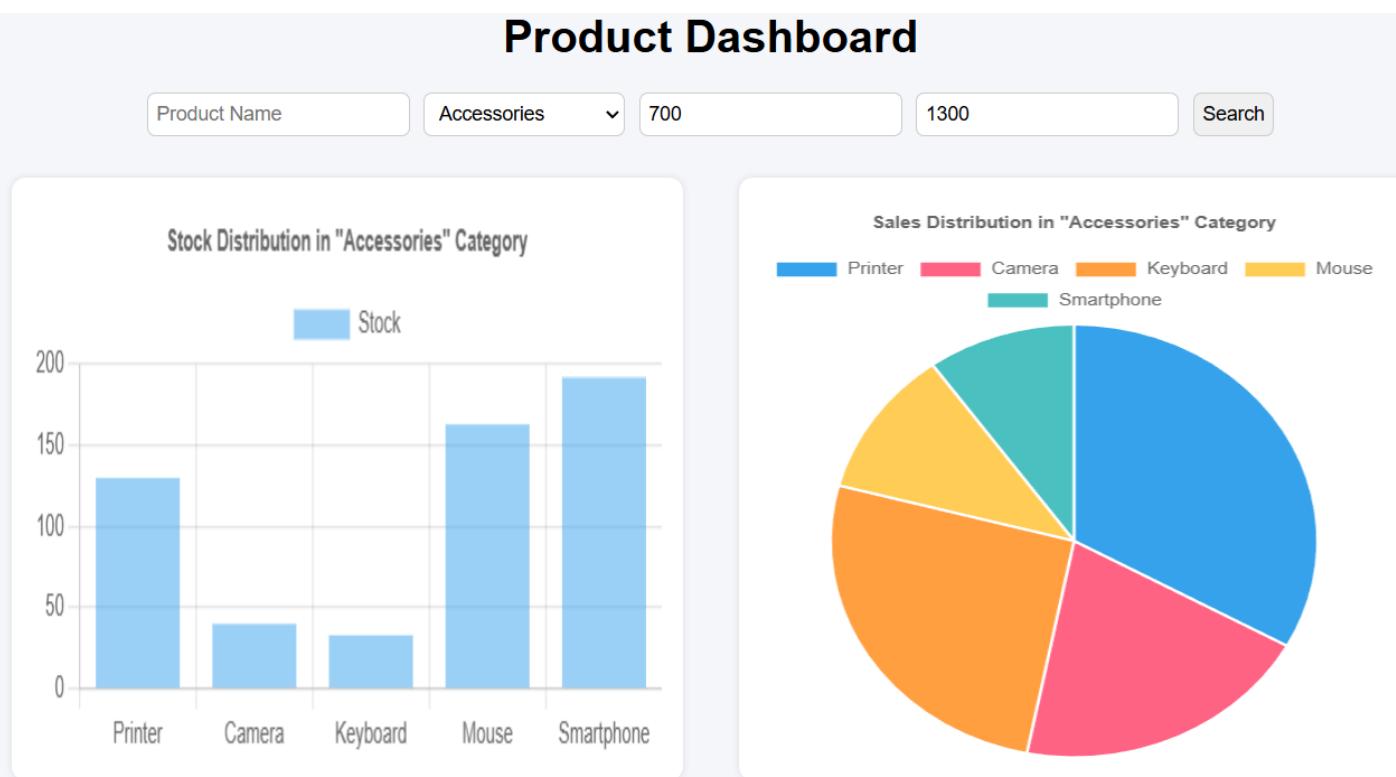
Sample output 2: Only **Accessories** was selected, so the charts update to show **stock** and **sales** distribution across **individual product names** within the Accessories category.



_id	Product Name	Category	Price	Stock	Sales Count
PID008	Camera	Accessories	182	84	227
PID009	Keyboard	Accessories	668.42	53	416
PID010	Printer	Accessories	1284.56	130	920

Sample output 3: A more refined input example: **Accessories** selected with **Min Price = 700** and **Max Price = 1300**.

Both the charts and the table update accordingly based on the filtered data.



_id	Product Name	Category	Price	Stock	Sales Count
PID010	Printer	Accessories	1284.56	130	920
PID014	Camera	Accessories	720.48	40	558
PID090	Keyboard	Accessories	911.41	33	724