

Stanley Martin Homes - Technical Assessment

Component: Product List Search

Objective:

Search through the provided data using an input field.

Requirements:

- Display results right below search fields.
 - If no results are found, display a “No Result Found” message instead.
 - You can use the submit button but auto search on keypress is preferred.
 - Search is not limited to any specific field. All columns in all tables are searchable.
 - For example, if the user types “Vi”, it should match both MetroAreaStateName for Virginia and FullName for Estuary at Bowen Village
- Page must not refresh upon searching and displaying results.
- Use CDN to load any third-party library (e.g., Bootstrap, jQuery).
- Results must be ordered by ProductName in ascending order.
- `NULL` values must be checked and handled
- Search results should change based on any type of user input in the search box that changes the text in the input field (e.g., space, backspace etc.)
- Style HTML elements as per your preference

Data:

Consider the following tables below (with sample data):

Metro Table

MetroAreaID	MetroAreaTitle	MetroAreaStateAbr	MetroAreaStateName
1006	Richmond	VA	Virginia
1007	Atlanta	GA	Georgia
1008	Charleston	SC	South Carolina

Project Table

ProjectGroupID	MetroAreaID	FullName	Status
23	1007	Edgewater	a
25	1007	Inwood	a
41	1008	Estuary at Bowen Village	a
43	1008	Mixson	i
47	1008	Oldfield	a

Product Table

ProjectName	ProductID	ProjectGroupID	ProductName
Edgewater	Y58	23	The Prescott
Edgewater 50	980	23	The Davis
Edgewater 50	E15	23	The Amelia
Edgewater 50	Y54	23	The Lockwood

Estuary	U68	41	The Stono
Estuary	1601	41	The Moultrie
Inwood SFD	980	25	The Dupree
Inwood SFD	E15	25	Inwood
Mixson	1674	43	The Stella
Oldfield	1665	47	The Tidalview
Oldfield	NULL	47	NULL

Final Output

After the search, please populate the following: Product Name, Product ID, MetroArea Title, Full Name, and Project Group ID

Note : You can use any Object Oriented Programming Language(preferred c#, react).