**Searching:**

Users are able to search the items by entering some keywords or conditions. As a search result, a list of items that satisfy the search criteria is returned to the users.

Searching is another function to get quick access to the target item besides browsing. If a user has a specific car in mind, by using our search bar, he can filter out the non-matching records and gets the desired results directly from our database.

How it works:

User types a keyword in the search bar and hit enter to search. Website breaks the keyword into several words. The website will search the first word in all the related tables in our database, then search the next word in the result from last word searching.

Simplified Example:

User search for Audi A5, breaks in to ‘Audi’, ‘A5’

First search for Audi

New Car Table Used Car

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Vid | Make | Model | Year | Price |
| 100 | BMW | M3 | 2015 | 60000 |
| 200 | Audi | A5 | 2015 | 40000 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Vid | Make | Model | Year | Price |
| 300 | Audi | A4 | 2013 | 25000 |
| 400 | Audi | A5 | 2014 | 35000 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Vid | Make | Model | Year | Price |
| 300 | Audi | A4 | 2013 | 25000 |
| 400 | Audi | A5 | 2014 | 35000 |

Then search for A5

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Vid | Make | Model | Year | Price |
| 200 | Audi | A5 | 2015 | 40000 |

Show the results to user (mark which one is new and which one is used).

Design:

A search bar is like this:

**Keywords**

It will be on every page, together with browsing bar so that user can perform a search no matter what page they are on.