1. ***Test Cases for the Search Bar***

**Assumptions and Preconditions:**

1. A user should be a registered user.
2. A user should have valid credentials to access.
3. A user should be granted access to Employees details.
4. KWD(s): Keywords. It is for reference, if it is used below.
5. The business requirement is that the search mechanism starts functioning as soon as the first character is entered in the search Bar. As there is nothing mentioned about magnifying class, we assume that user doesn’t have to click that in particular to let the process start.
6. The search mechanism fetches the rows from the given table when the entered consecutive characters match with the data in DB. **Let say, AN is entered in the search bar then *a row containing “Andrew Wales” and “Adan”* is fetched as a result and not a row that has *“Dena Joseph”.*** Even though we do have **A** and **N** in it, they don’t match the order as what is given in the search bar.

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| Test Case 1 | User is logged in and lands to the “People” page |
| GIVEN | User logs in with valid credentials into the system |
| WHEN | User clicks on “People” link from the top menu bar |
| THEN | User is redirected to the “People” page. |
| AND | A user views different features like table, search bar, drop-down menu and multiple buttons. |

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| Test Case 2 | Verify Search Bar when it’s not even clicked |
| GIVEN | “Departments” is selected in the dropdown and Employee details are shown in the table along with the search bar |
| WHEN | The Search bar is not even clicked and selected. |
| THEN | It should remain in its initial state and should keep the placeholder which says” Search for the Employee Details” |

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| Test Case 3 | Verify Search bar when the cursor is placed in it |
| GIVEN | User has not clicked on the search bar yet. |
| WHEN | User clicks on the search bar |
| THEN | The placeholder should disappear |
| AND | A user should be able to enter characters. |

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| Test Case 4 | Verify Search Bar when one character is entered. |
| GIVEN | The user is on the Employee detail page and the cursor is on the search bar. |
| AND | The placeholder disappears |
| WHEN | A user enters a character. |
| THEN | All the rows from the Employee’s table that have that character, entered in the search box should be shown as a search result. |

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| Test Case 5 | Verify Search Bar when two(or more) matching characters are entered. |
| GIVEN | With the given assumption discussed above, point #6. A User is on Employee detail page and has clicked on the search bar |
| WHEN | A user enters more than one character that finds the match in the given Employee table below. |
| THEN | The row(s) that contain matching data are displayed only. |

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| Test Case 6 | Verify Search Bar when KWDs are entered and nothing matchable is found |
| GIVEN | User has clicked on the search bar. |
| WHEN | User enters data that has no matching value in the given table. |
| THEN | An alert that says “No Matching data found” should be displayed on the screen. |
| AND | The entered search should stay in the search bar. |

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| Test Case 7 | Verify Search Bar when the characters are being removed from it and then match case is found. |
| GIVEN | User has already entered a string |
| AND | There is no matching found based on that search. |
| WHEN | User removes a character and match cases are found. |
| THEN | All such rows should be displayed |

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| Test Case 8 | Verify Search Bar when the characters are being removed from it and then match case is gone. |
| GIVEN | User has already entered a string |
| AND | There is matching found based on that search and the data is displayed |
| WHEN | User removes a character and the match cases are gone now. |
| THEN | An alert that says “ No Matching data found” should be displayed on the screen. |

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| Test Case 9 | Verify Search Bar when everything entered is removed |
| GIVEN | The search data is already written in the search bar |
| WHEN | User removes the complete data from the search bar |
| THEN | There should be no data left in it, instead the placeholder that says ”Search for the Employee Details” should appear. |
| AND | The original table in the initial state should be displayed. |

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| Test Case 10 | Verify Search Bar when unlimited characters are entered in it. |
| GIVEN | The user has clicked on search bar |
| WHEN | When the user enters unlimited characters in the search bar and no matching data is found |
| THEN | The page should display a message “No matching data Found” |
| AND | Should not crash. |

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| Test Case 11 | Verify Search Bar when a number is entered in it. |
| GIVEN | The table contains numeric data and user has clicked on the search bar |
| WHEN | The user enters numeric data and the matching case is found. |
| THEN | All the matching rows should be displayed only |
| AND | The search bar should keep the search unless it’s removed by the user. |

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| Test Case 12 | Verify Search Bar when special character “$”  is entered in it |
| GIVEN | The Rate per hour in the table already contains a $ sign |
| WHEN | User enters only “$” sign |
| THEN | Then, based on assumption point# 5, all the rows that contain the $ sign are displayed. |

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| Test Case 13 | Verify Search Bar when only spaces are entered in it. |
| GIVEN | The user has clicked on the search bar |
| WHEN | User press space bar only |
| THEN | White spaces should be handled and no action should occur. |

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| Test Case 14 | Verify Search Bar when spaces are entered before and after the string |
| GIVEN | User has clicked on search bar and the placeholder goes away |
| WHEN | User enters space and then enters a string or enters string and then spaces that matches with any data |
| THEN | White spaces should be handled. |
| AND | The matching rows should be displayed |

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| Test Case 15 | Verify Search Bar when a file or image is dragged in it |
| GIVEN | User has a file opened |
| WHEN | User drags the file and drops into the search bar |
| THEN | The search mechanism should not accept it |
| AND | There should be no action taken. |

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| Test Case 16 | Verify Search Bar filled and a page loads |
| GIVEN | User has entered a data in the search bar |
| WHEN | User clicks on Browser refresh button |
| THEN | The page should load |
| AND | The search bar should be empty. |

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| Test Case 17 | Verify Search Bar is filled and a back button is clicked |
| GIVEN | User has entered a data in the search bar |
| WHEN | User clicks on Browser back button |
| THEN | The user should be redirected to the previous page |

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| Test Case 18 | Verify Search Bar is filled and a forward button is clicked |
| GIVEN | User is on page given in Test case 16 |
| WHEN | User clicks on Browser forward button |
| THEN | The user should be redirected to the forward page and search bar should hold the data, based on the state maintained in the cache. |

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| Test Case 19 | Verify Search Bar gives suggestion based on search history |
| GIVEN | User has made previous searches using search bar |
| WHEN | User clicks on the search bar. |
| THEN | Based on the previous search history, search bar should give its suggestions |
| AND | Users can select from the suggestions list and the search bar should populate based on the selection |