

# Web Developer Interview

## Background

You are to develop a simple single page web application designed to allow users to search for information on our website.

Assumptions: You may assume that login and access control have already been handled.

## Tasks

Develop a frontend web application, listed under User Stories below, to search for content.

- Fetch and display search results according to mockup
- Provide typeahead suggestions dropdown for searchbar

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## Mock Ups

<https://www.figma.com/file/mjn0tcgy7dU9iQTfE3uvYe/Developer-Application?node-id=0%3A1>

## User Stories

### Task 1: As a user, I want to see results displayed when i search in the search bar

Refer to screenshots provided to style your application UI accordingly.

1a) Perform Search and Display Results  
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~~Given user is focused on search bar~~  
~~When user click on search button OR press enter~~  
~~Then search results should be fetched~~  
~~AND results should be displayed in correct format~~  
~~AND matching terms in results content should be highlighted~~

\*\* Use the following Search API endpoint to fetch mocked search result data to complete your task.

- HTTP GET  
<https://gist.githubusercontent.com/yuhong90/b5544baebde4bfe9fe2d12e8e5502cbf/raw/44deafab00fc808ed7fa0e59a8bc959d255b9785>
- Note that above mocked api response will be static.

### Task 2: As a user, I want to see suggestions in the search bar

Refer to screenshots provided to style your application UI accordingly.

2a) Typeahead Suggestion Dropdown  
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~~Given user is focused on search bar~~  
~~When user types > 2 character in search bar~~  
~~Then suggestion dropdown should appear showing top 6 results~~

2b) Select Suggestion  
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~~Given user is focused on search bar,~~  
~~When up or down keyboard button is pressed to select any suggestion and enter is pressed~~  
~~OR any suggestion is clicked~~  
~~Then suggestion dropdown should disappear~~  
~~AND selected suggestion search term should appear in search bar~~  
~~AND search results should be updated according to selected term~~

2c) 'X' Button in SearchBar  
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~~Given user is focused on search bar,~~  
~~When >= 1 character is typed in search bar~~  
~~Then 'X' button should appear~~

2d) Click 'X' Button in SearchBar  
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~~Given user is focused on search bar,~~  
~~When 'X' is clicked~~  
~~Then suggestion dropdown should disappear~~  
~~AND searchbar textfield should be cleared but retain focused~~  
~~AND 'X' option should disappear~~

\*\* Use the following suggestion API endpoint to fetch mocked suggestion data to complete your task.

- HTTP GET  
<https://gist.githubusercontent.com/yuhong90/b5544baebde4bfe9fe2d12e8e5502cbf/raw/e026dab444155edf2f52122aefbb80347c68de8f>
- Note that above mocked api response will be static.

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## Requirements/Expectations

- Please use ReactJS & Typescript to complete this technical assessment.
- Your code repository should contain a README.md that includes the following:
  - Setup instructions on how to build / run your application; we need to minimally be able to launch and test your solution locally
  - Instructions on how to run your automated tests
- Include unit tests for application logic that should be tested.
- You may state any assumptions made on requirements.

## Important!

We will assess your submission holistically (i.e. not just in terms of functionality), including factors such as:

- Readability and code cleanliness
- Naming / Coding conventions as per your language of choice
- Code structure/design, e.g. modularity, testability
- Designing for user experience / performance
- Sound approach to handle responsive layout and styling within the application to support different devices
- Adequate error handling, eg. network failure

You should be able to complete this assessment within 3 days.

## **Submission**

When you have completed your assignment, before the given deadline, please upload your solution to a public git repository and submit to us (at [wafendy.gt@gmail.com](mailto:wafendy.gt@gmail.com)) a link to your code repository.

If you have any queries, feel free to post them to [wafendy.gt@gmail.com](mailto:wafendy.gt@gmail.com). You can also reach me via my telegram [@wafendy](https://www.telegram.com).