**SOFTWARE REQUIREMENT SPECIFICATION**

**Introduction:**

My software project is about “Recipe sharing platform” which requires multiple functionalities and user-specifications including search engine, navigations, cooking instructions, and ingredient lists.

**Functional & Non-functional Requirements:**

1. The functionalities required me to design a search engine in which the user will enter a string or a letter and I needed to fetch the optimized result accordingly. To solve the problem, I declared a component and designed an input area to enable the user enter the string and search for the recipe. According to my program, If the entered string doesn’t match any data from the API, “Not Found” will be printed on screen otherwise the cards of the best solution will be displayed on screen.
2. When the user clicks on any card on display, my program will navigate it to that recipe page in which the cooking instructions and ingredient lists will be displayed to the user.
3. To make the user-experience more convenient, I have also displayed an array of letter which the search for the recipes from API starting with that letter.

**Problem Statement & Problem Solution:**

The problem I faced during the development is that only after the user entered the correct string and hit enter, the results from the API are fetched which wasn’t creating a user-friendly experience. To resolve the issue, I also created an array of letters so that when the user clicks on the any letter, the recipes started with that letter will be displayed as search results.

**Constraints:**

The constraints are the user cannot share their own recipes on the website neither can they rate any recipe and share the recipes with other users. The usage of the website is limited to the pre-existing API only.