**Software Requirement Specification Document**

**<Version 1.0.0>**

**The Recipe Maker**

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Requirement Specifications

This section of the document describes the functional and non-functional requirements of the application. The requirements have been agreed upon by all the stakeholders.

Functional requirements

* Given a set of ingredients, the application must give the user a set of potential recipes in a pictorial format, such that the user clearly can decide which recipe to choose.
* The application must also be able to give an approximate estimate of the nutritional value of the recipe or the food the user has consumed.
* The application must be able to store a database of the items the user has in his/her refrigerator. Depending upon items, an alert message must be displayed, rather the over ripening of the items

Non-Functional Requirements

* The application can contain a database of cuisines categorized on the basis of states of India, thus the user may know more about the Indian cuisines.
* The application can contain a feature to show the entire procedure of making of the cuisine or recipe decided by the user

Constraints:

* The application must be compatible with both iOS and Android mobile operating systems since we are using flutter for making of app.
* The application must be compatible with a range of mobile devices, including various screen sizes, resolutions, and hardware specifications. .(Internet connection required for user to use app)
* The application interface and all textual content must be in English only, excluding support for other languages.
* The app's accuracy in suggesting recipes, estimating nutrition, and sending fridge alerts depends on how correct the fixed data source is and the information users provide. We can't constantly update the data.

Acceptance Criteria :

* Each recipe should include a high-quality image along with a clear title and brief description.
* The user should be able to scroll through the list of recipes easily and view additional details by tapping on a recipe.

* The application should provide a breakdown of the nutritional information (e.g., calories, fat, protein, carbohydrates) for each recipe.
* The estimated nutritional values should be based on standard serving sizes or customizable portions.

* - The application should allow the user to easily add items to their virtual refrigerator and categorize them by type (e.g., fruits, vegetables, dairy).
* - When items are added, the application should automatically update the inventory and track expiration dates.
* - If any item is close to or past its expiration date, the application should send a notification or display an alert message to the user.

* Each cuisine should include a brief description highlighting its unique characteristics and popular dishes.

* The application should present step-by-step instructions for each recipe, including ingredients, cooking methods, and estimated preparation time.
* The recipe instructions should be easy to read and understand, catering to users of all cooking skill levels.