bizdev Solutions, Inc Cooking Android App

1. **Introduction to the App**

We, “bizdev Solutions, Inc.” are creating an application that serves as a personal search engine that allows the user to access a variety of cooking recipes. The defining feature of the application is that a user can enter in a list of ingredients, quantity of said ingredients, available cooking tools, and in return the application will provide a list of cooking recipes from a database. Many recipes will have been already provided by bizdev, and the user can also personally add their own. The database results can be further filtered to select from various types of cuisine, meals, and other criteria. The purpose of this application is to provide users quick access to recipes that they can cook with the ingredients and tools they have at hand.

This application provides the option for the user to search for and select from a variety of different ingredients they presumably have at hand. By choosing more ingredients, the number of recipes that can be made will readily increase. If a user tends to select certain ingredients, those ingredients can be saved as favorites for easy access, and can be added later into his or her selected ingredient list. The application will maintain a certain number of the often or most recently used ingredients. As an example, if a user often likes to make pasta and other Italian cuisine then he or she would likely want to keep items such as oil, salt, butter, garlic, cheese, tomatoes and pasta as easily accessible ingredients, but may like to also add new ingredients to experiment with, such as a pasta dish that includes spinach, sausages, or bacon. It would also be useful to have a general category of commonly used ingredients that are preset in categories such as vegetables, fruits, meats, grains and dairy. This can be useful for more simple dishes and helps to minimize the number of button presses used to search for each ingredient. Or if a user enjoys lots of protein, selecting meats will list options of common poultry and fish. Furthermore, users will have the option of creating their own categories within their favorites tab so that they can organize their favorite ingredients and reach them efficiently without having to look through relatively large lists of ingredients.

Once users have selected the ingredients they would potentially like to include in the final dish, the application will display all the recipes that can be created with those ingredients. To increase flexibility, the filtered list of recipes will allow further narrowing by other options, such as cuisine, like Mexican, Italian, Indian, Chinese, etcetera, and by the type of meal, such as breakfast, lunch, or dinner. As a result, the available options will be concise and specific to the current desires of the user. The user can also save his or her commonly used recipes in the recipe favorites menu, which is distinct from the ingredient favorites menu. Users will also have the ability to modify and submit their own recipes to the database. Lastly, users have the capability to search directly for recipes without selecting any ingredients, as this would allow users to get the ingredients they would need based on which recipe they would like to cook.

Having chosen a recipe, the application will provide a detailed list of ingredients and their required quantities, as well as the tools that are required to make the recipe. It will also provide explicit instructions on how to prepare the dish. Users will have their own recipe lists that contain all the recipes they have created themselves.

**2. User Interface Requirements for Ingredients**

**Search Engine for Ingredients: The application should provide a search engine that allows users to look up ingredients or a list of ingredients created/favorited by the user. The search engine should find recipes for the ingredients that the user selected directly or by using the previously accessed ingredients and ingredients in the favorite list. The functionality of the Search engine would include:**

* Search bar to look-up ingredients
* Checkboxes to select desired ingredients
* Scroll bar for the search results
* Buttons to select criteria for the list of ingredients, i.e. condiments, vegetables, fruits, meats, seafood and etc
* Ability to return to the main menu
* User should be given suggestions off partially typed ingredients
* History button for recently accessed ingredients
* Ability to create a list of favorite ingredients

**Ingredient Database: The application should have a database of ingredients. The database should be well organized and can be organized by type of foods like vegetables, fruits and meats. The list of functionality that the ingredient database should include:**

* Ability to user-add ingredients
* Ability to remove user-added ingredients
* Ability to save ingredients as favorites
* Favorites button for ingredients
* Ability to create a favorite list and filter through the ingredients based on certain criteria

**3. User Interface Requirements for Recipes:**

**Search Engine for Recipes: The application should provide a search engine that allows the user for quick and easy look up of recipes based on different criteria. The primary way of searching the database is through the selected list of ingredients. Afterwards, the search engine will return a list of recipes that can be made from those ingredients. The Search Engine results also includes the ability to filter the recipes based on categories. The results of the search engine should be clearly displayed and be easy to scroll through. The functionality of this should include:**

* Favorites button for recipes
* History button for recently accessed recipes
* Scroll bar for search results
* Ability to save recipe as favorites
* Ability to filter search results by cuisine
* Ability to filter search results by meal type
* Ability to filter recipes by ingredients
* Ability to return to the main menu

**Recipe Database: The application will have a database of recipes. The database will be well organized and organized by different of categories. The list of functionality that the recipe database should include:**

* Ability to add recipes
* Ability to remove recipes
* Ability to edit user-added recipes
* Ability to save recipe as favorites
* Favorites button for recipe
* Ability to create a favorite list and filter through the recipe based on certain criteria

**Recipe Interface: The recipe should have clear wording so that the user does not get confused on the instructions. The application should also allow the user to edit the recipe and update the database. The recipe is the backbone of this application and should be made according to these requirements:**

* The ability to edit recipes and update the database
* List of ingredients for each recipe
* Quantity of ingredients for each recipe
* Detailed instructions for each recipe