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INNOVATING HOME COOKING: CULINNOVATE

Abstract.

Culinnovate transforms home cooking with an AI-powered recipe generator, a savior for those moments when you are at home with limited ingredients, offering precise and efficient recipes. The user-generated recipe database cultivates a culinary community, fostering creativity and diverse exchanges. Through machine learning, Culinnovate tailors highly personalized recipe recommendations, adapting to evolving taste preferences. Boosting user confidence, interactive cooking guides provide real-time instructions and timers, catering to all skill levels. Soon, a dynamic ingredient substitution feature will empower users to adapt recipes based on dietary preferences or regional availability. Culinnovate is the key to a seamless, intelligent, and engaging cooking experience, resolving the “what to cook with what” dilemma and delivering culinary satisfaction.

Key words: *IS for home cooking, AI-powered recipe generator, recipe database, machine learning.*

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INTRODUCTION

Our team recognized the challenges people face in home cooking, such as limited time and resources, leading to food waste. To address this, we conceptualized "Culinovate," an innovative solution aimed at transforming the home cooking experience using advanced AI technology.

AUTHORS



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DESCRIPTION OF OUR IDEA

Culinovate is a user-friendly website and app designed to empower cooking enthusiasts. With a personalized recipe generator, it helps users create delicious meals based on their available ingredients, minimizing food waste and promoting creativity in the kitchen.

WHY IS IT UNIQUE AND COMPETITIVE?

Culinovate stands out by utilizing AI algorithms for instant recipe suggestions, reducing search time by over 50%. The platform encourages a sense of community through a User-Generated Recipe Database, fostering a dynamic exchange of culinary ideas. Its simplicity and efficiency make it a competitive choice in the market.




Cullinovate

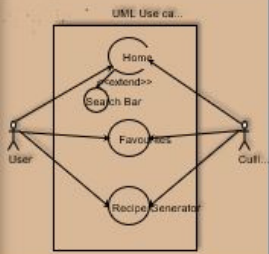
CONCLUSION

In our project, we have successfully developed:

- AI-Powered Recipe Generator
- User-Generated Recipe Database
- Personalized Recipe Recommendations



UML Use Case Diagram



```
graph TD
    User((User)) --- Home((Home))
    User --- SearchBar((Search Bar))
    User --- Favourites((Favourites))
    User --- RecipeGenerator((Recipe Generator))
    Cullinovate((Cullinovate)) --- Home
    Cullinovate --- SearchBar
    Cullinovate --- Favourites
    Cullinovate --- RecipeGenerator
    Home --> SearchBar
    Favourites --> RecipeGenerator
```