

Foodorials- A Cooking Recipe Android App

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Abstract - Our generation relies mostly on phones to get through the day. Due to this, phones have become more of a personal assistant than a means to just communicate. Keeping this thing in mind we wanted to use the concept of a phone as a personal assistant for helping the users to cook like a master even when they don't know a thing about cooking. The system is an Android Application- Foodorials, which provides the users with simplified recipes with real-time search which are easy to understand and easier to make and can be accessed even when the user is offline with the assistance of something which they carry with them all the time and hence can access it at anyplace and anytime. The system has a structured UI unlike most of the cooking apps that are available. It provides users recipes along with their preparation time, number of servings, and ingredients that will be required which can be added to the shopping list/ingredients checklist to purchase them later. Users can even find the nearest shops for the ingredients as per their requirement. The proposed system is a proper source for any type of cook-a beginner or a professional, to find the recipe of the food that they want to make.

The system has been implemented using the Ionic framework, Android SDK, Node JS, Cordova, and JDK.

Key Words: Offline availability, Maps, Shopping list, Smart search filters, UI

1. INTRODUCTION

Food is important for physical and mental well-being. It is more than just a primary factor for survival for some, for others, it is a major factor which can change a grumpy mood into frivolous one. After a long day of work, or a hectic schedule people want to come home eat food and relax. Surely takeouts are easy and delicious but home-cooked meal has its own flavor and satisfaction. To find a proper source of learning to cook for a beginner is difficult. That's why we have come up with the idea of cooking recipe app which provides users with step-by-step recipes to make the task of preparing a meal less hectic.

2. PROBLEM STATEMENT

Today Do It Yourself concept has become very popular in the world. Urban Indian consumers are wildly drawn to the idea of cooking meals from the comfort of their homes.

Surely there are many good recipe apps which provide thousands of recipes but a good application lacks a small feature that prevents it from making it a great application.

We noticed a few things which were missing- offline availability of recipes, ability to create a customizable list of ingredients, locate the nearest grocery store or to sort the recipes based on specific ingredients or dietary preferences, also unstructured UI & UX. So we have tried to overcome the limitations of existing systems to help the user gain a better experience.

3. OBJECTIVES

Our aim is to help users cook great food with simplified recipes which are easy to understand and even easier to make. Today, users are increasingly drawn towards the idea of cooking meals from the comfort of their homes. Finding the proper source for recipes to cook for a beginner is difficult, that's where our app comes into the picture.

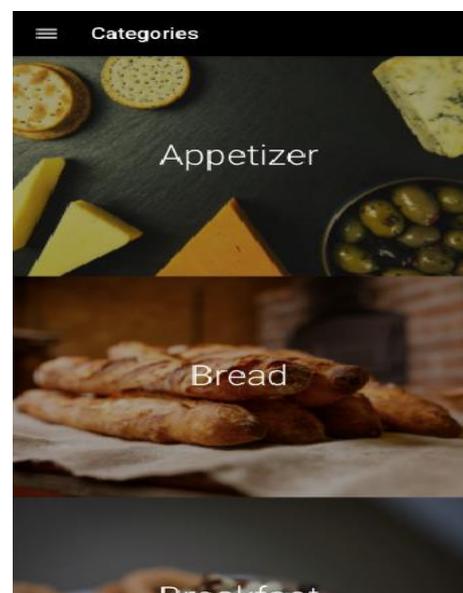
Some of the features include,

- Offline availability of recipes
- Structured UI
- Smart search filters
- Ingredients checklist/ Shopping list
- Maps/nearest store locator

4. PROPOSED MODULES

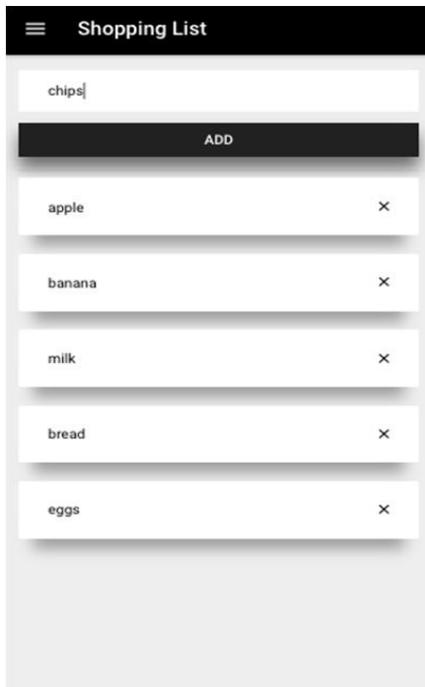
A. Categorized Recipes

The system provides users with categorized recipes to choose from based on their preferences. Ease of access.



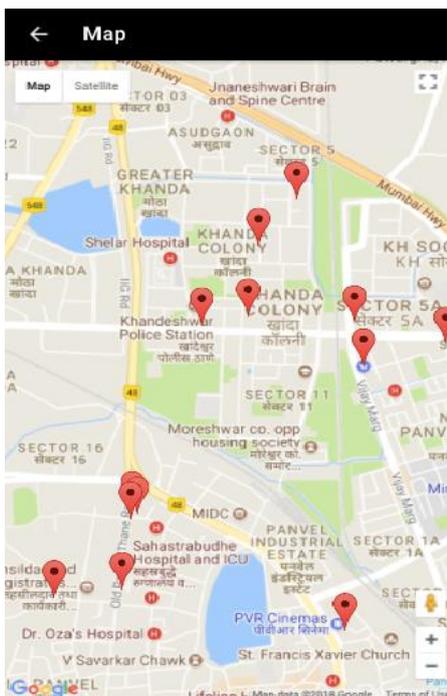
B. Integrated Shopping List

Users can add the ingredients that they want to buy later into the shopping list, which replaces the traditional way of writing onto a paper or using other apps to make a list.



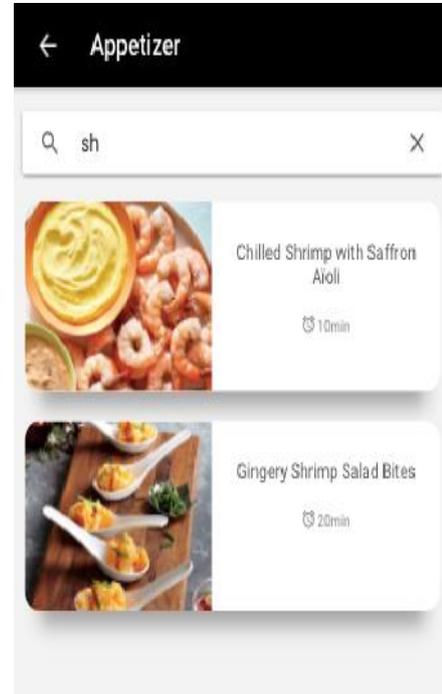
C. Maps

In order to buy the ingredients from the shopping list, the system provides a map to locate nearby grocery stores from where the user can purchase those things.



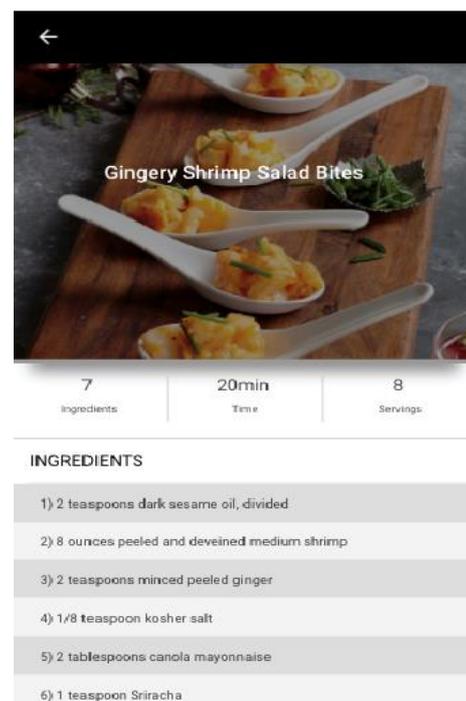
D. Real-time Search Filter

The searching algorithm takes the input from the user and sorts the recipes in real time. The algorithm sorts the recipes with each successive character entered by the user and refreshes the results in real time accordingly.



E. Friendly user interface

The system has a friendly user interface for quick and easy navigation.



5. WORKING

The app houses a large collection of recipes integrated within the app itself, which the user can access anytime. The recipes are available completely offline and for free. The user can easily navigate around the app and find any relevant recipes. Moreover, the users can also make use of the search bar (smart search filter) to quickly find the desired recipes. With an integrated shopping list feature, it makes it easier for the users to make a note of any ingredients that they plan on buying later. Along with the shopping list feature, the app also has an integrated Google Maps feature, which locates nearby supermarkets, to help users find the ingredients.

6. REQUIREMENTS

6.1 Hardware Requirements

Hardware	Specification
1.OS	Windows or MAC
2.RAM	4GB minimum (8GB recommended.)
3.Disc Space	500MB for Android Studio, at least 1.5GB for Android SDK, emulator system images and caches.

6.2 Software Requirements

- Ionic Framework
- Node JS and npm
- Cordova
- Android SDK
- Java Development Kit (JDK)

7. FUTURE SCOPE AND LIMITATIONS

It supports users using android devices with 3.0 and upwards only.

Features like sharing recipes, quick access to favorite recipes, nutritional count, unit converter, etc. are expected in the future.

8. CONCLUSION

Foodorials – is a completely free and easy to use mobile application. It provides users with tons of recipes to browse through and with ease of quick search options. It also has shopping list and Google Maps feature integrated within the app itself to add to the user's convenience.

9. ACKNOWLEDGEMENT

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