2. Introduction:

In today's fast-paced world, people are increasingly seeking convenient and innovative ways to cook meals at home. With busy lifestyles and growing health-consciousness, there is a rising demand for platforms that provide quick access to easy-to-follow recipes. This project focuses on developing a comprehensive recipe website designed to cater to these needs. It will serve as an all-in-one solution for food lovers, beginners, and experienced home cooks, offering an extensive database of recipes, along with various features that enhance the cooking experience.

The website will include a wide variety of recipes, from basic everyday meals to intricate gourmet dishes, allowing users to discover new cuisines and personalize their cooking journey. With intuitive search filters, personalized recommendations, and a user-friendly interface, the platform will be accessible to all levels of cooks. Through this project, the goal is to bridge the gap between convenience and creativity in the kitchen, helping users explore new cooking techniques, discover diverse flavours, and embrace the joy of home-cooked meals.

3. Problem Statement:

In digital age, user often struggle to find a centralised platform that provides an all-in-one solution for recipe management. Many existing platforms focuses on recipe discovery, lacking features like seamless translation, integrated ingredient purchasing and personalised collections. Additionally, users may face challenges in organising their favourite recipes. Our Recipe Book Website aims to solve these issues by offering an interactive and comprehensive solution.

4. Objectives:

- To provide an easy-to-use interface for recipe discovery and uploads.
- To enable users to translate recipes for multilingual accessibility.
- To offer a seamless shopping experience by integrating ingredient purchases.
- To allow users to save favourite recipes through a wishlist feature.
- To facilitate an interactive search experience based on preferences.

5. Proposed System Architecture:

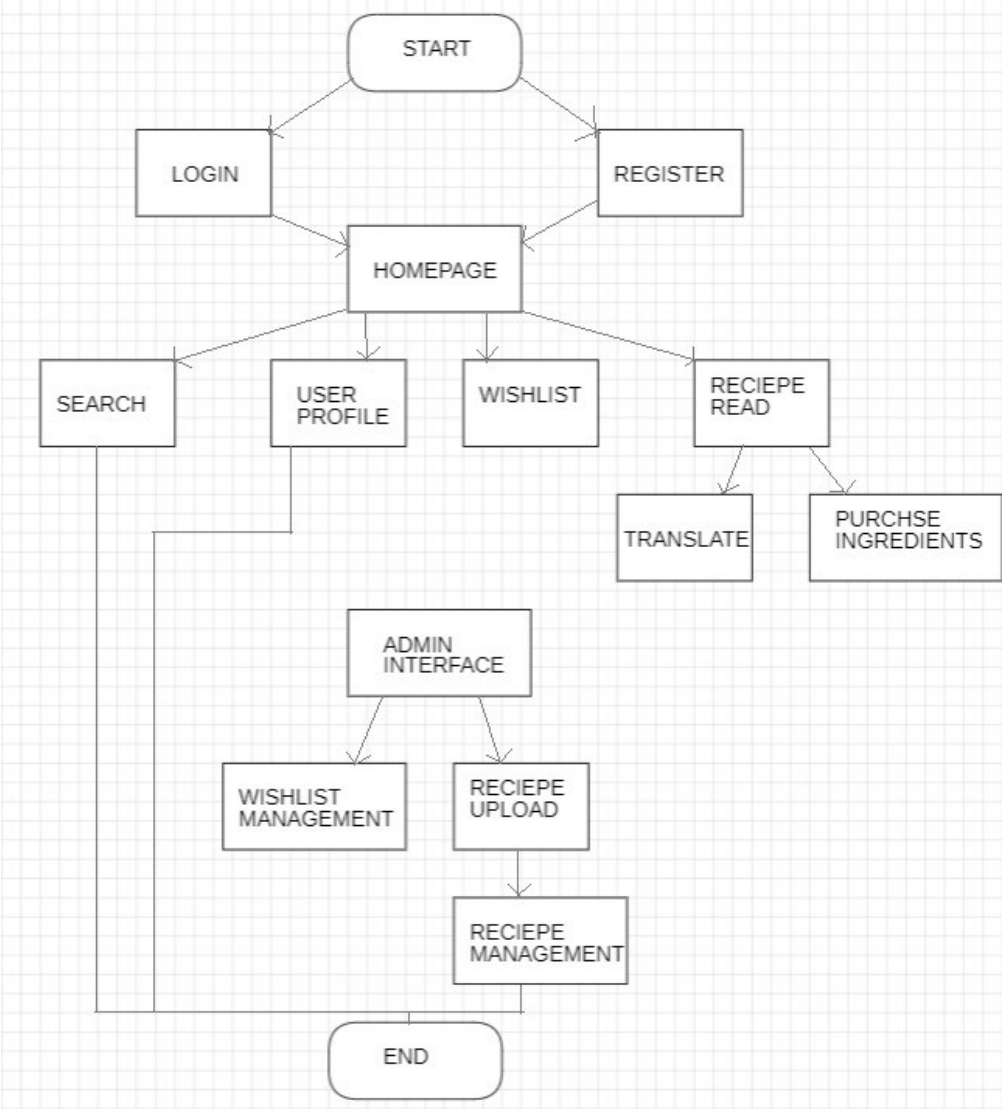

Fig.5.1 : System Architecture Diagram of Recipe Book Website

6. Module:

1. **User Authentication:** Allows users to create accounts, securely log in to access personalized features and save their preferences. Displays user information, saved recipes, allowing customization of their experience.

2. **Home Page:** The main landing page that showcases featured recipes, categories, and quick links to popular sections of the website.

3. **Search Module:** Enables users to find recipes by keywords, ingredients, cuisine, or dietary preferences.

4. **Wishlist:** A feature where users can save their favourite recipes for easy access later.

5. **Read Recipe:** Provides detailed views of individual recipes, including ingredients, instructions, and nutritional information.

6. **Upload Recipe:** Allows users to submit their own recipes to share with the community.

7. **Translate Module:** Offers translation of recipe content into different languages (English, Marathi, Hindi) to cater to users.

8. **Purchase Ingredients:** Enables users to buy ingredients directly from the recipe page through integrated e-commerce options.

7. System Requirement:

- Software Requirement:
  1. Front-End Development: HTML, CSS, bootstrap.
  2. Back-End Development: Node JS.
  3. Database: MongoDB.
  4. Operating System: Windows 11, Ubuntu.

- Hardware Requirement:
  1. Client: PC's, Laptop, Mobile.

8. References:

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