

COOKBOOK: REVOLUTIONIZE RECIPE MANAGEMENT

Project documentation

1. INTRODUCTION:

PROJECT TITLE: CookBook – Revolutionize Recipe Management
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2. PROJECT OVERVIEW

PURPOSE: CookBook is a modern recipe management web application designed to enhance the culinary journey of users. It empowers both beginners and professional chefs to discover, organize, and create recipes in a highly intuitive and collaborative environment.
FEATURES: * Dynamic recipe search and filtering * Add, edit, and categorize recipes with images, ingredients, and instructions * Save favorite recipes and create personal collections * Step-by-step cooking assistant view * Community sharing and collaboration features * Personalized dashboard with saved recipes * Admin panel for recipe moderation

3. ARCHITECTURE

* Frontend: React.js with Tailwind CSS / Material UI * Backend: Node.js and Express.js handling APIs and server logic * Database: MongoDB (recipes, users, favorites, community posts) * Optional AI Layer (Future): Smart recipe recommendations and dietary suggestions

4. SETUP INSTRUCTIONS

PREREQUISITES: * Node.js * MongoDB * Git * React.js * Express.js * Visual Studio Code

5. INSTALLATION STEPS:

```
# Clone the repository  git clone <repository-link># Install client dependencies  cd client  npm install# Install server dependencies  cd ../server  npm install
```

6. FOLDER STRUCTURE

```
CookBook/ | -- client/      # React frontend | | -- components/ | | -- pages/ | | -- server/      # Node.js
backend | | -- routes/ | | -- models/ | | -- controllers/ | | -- database/      # MongoDB schemas & config
```

7. RUNNING THE APPLICATION

FRONTEND: cd client npm start
BACKEND: cd server npm start
ACCESS: Visit <http://localhost:3000>

8. API – DOCUMENTATION

USER: * POST /api/user/register * POST /api/user/login
RECIPES: * GET /api/recipes * POST /api/recipes/add * PUT /api/recipes/:id * DELETE /api/recipes/:id
FAVORITES & COLLECTIONS: * POST /api/favorites/add * GET /api/favorites
COMMUNITY: * GET /api/community/posts * POST /api/community/post
ADMIN: * GET /api/admin/reported-recipes

9. AUTHENTICATION

* JWT-based authentication for secure user login * Middleware to protect user dashboards and admin routes

10. USER INTERFACE

* Landing page (recipe catalog & search) * Personalized dashboard (favorites, collections, recommendations) * Recipe detail page (ingredients, steps, cooking view) * Add recipe page (upload images, instructions) * Community

sharing page (share, comment, collaborate)* Admin panel (recipe management & moderation)Testing:* Manual functional testing at milestones* Tools: Postman, Chrome DevTools, Jest (unit testing)

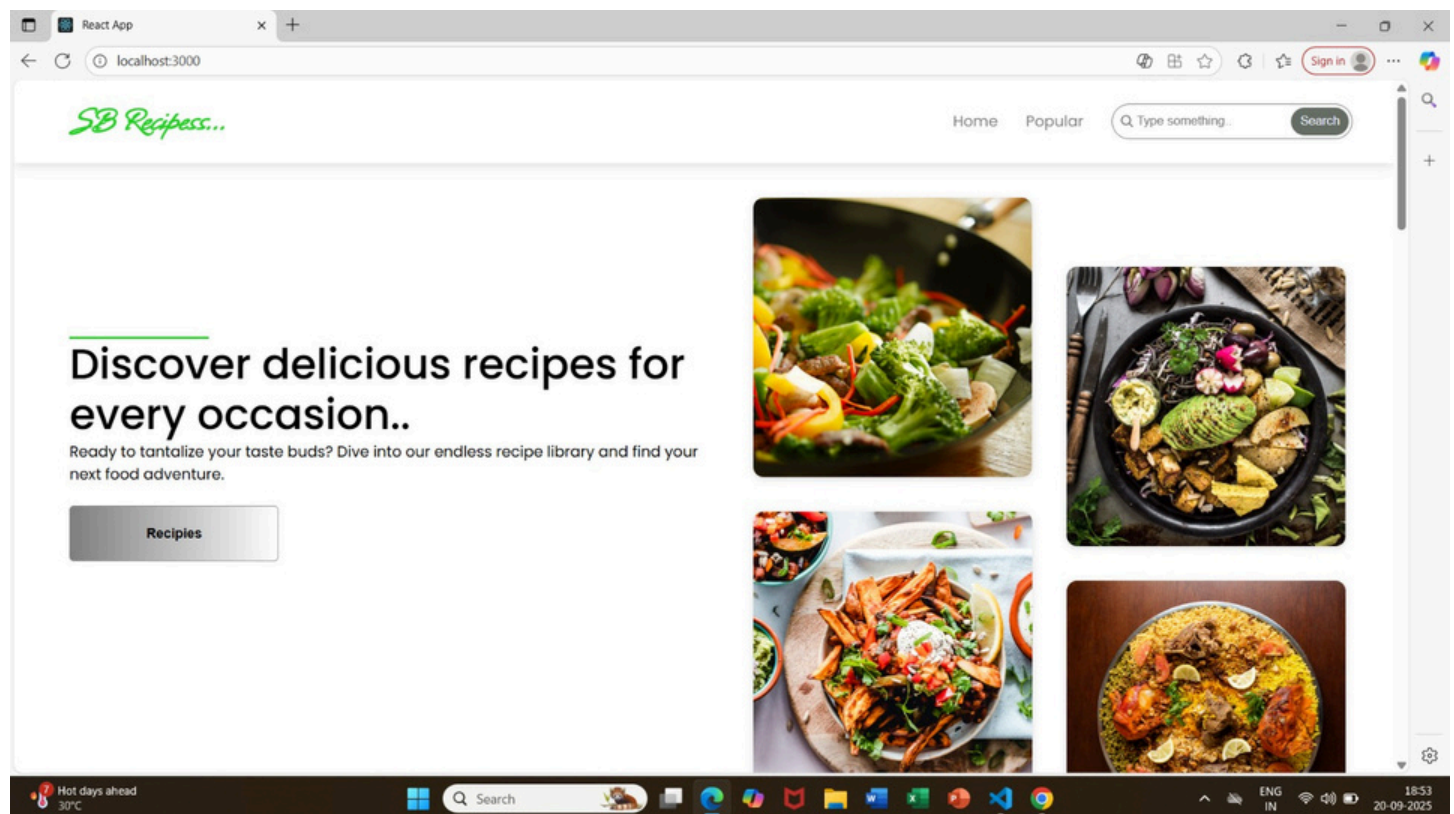
11.KNOWN ISSUES

* Occasional lag during recipe image uploads* Search filters may overlap under heavy queries* Community post moderation delays

12. FUTURE ENHANCEMENTS

* Mobile application (Android/iOS)* Voice-assisted cooking mode* AI-driven dietary recommendations* Integration with grocery shopping lists* Multi-language recipe support

SCREENSHOT



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