

# NEXT GEN EMPLOYABILITY PROGRAM

CREATING A  
FUTURE-READY  
WORKFORCE

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# CAPSTONE PROJECT SHOWCASE

Project Title

**Recipe Sharing Platform**

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## Abstract

1

A web-based platform that allows users to create accounts, upload recipes with images, and explore a diverse collection of dishes from different cuisines.

2

User Authentication – Sign up, log in, and manage profiles.

3

Community Features – Like, comment, and rate recipes.

4

Modern Tech Stack – React.js (Frontend) + Express.js (Backend).

## Problem Statement

In the digital age, food enthusiasts and home cooks often struggle to find a centralized, user-friendly platform for discovering, organizing, and sharing recipes. Existing solutions are either cluttered with ads, lack interactive community engagement, or fail to provide an intuitive way to filter recipes based on dietary preferences, cuisine types, or cooking complexity.

This project aims to develop an innovative **Recipe Sharing Platform** that leverages modern web technologies to create a seamless, interactive, and community-driven environment. By incorporating **efficient categorization, real-time engagement features, and personalized recommendations**, the platform will empower users to share culinary expertise, explore diverse recipes, and enhance their cooking experiences in a structured and engaging manner.



## Project Overview

### Introduction

The Recipe Sharing Platform is a web-based application designed to connect food enthusiasts, home cooks, and professional chefs in a dynamic digital space.

Users can create, share, and explore a vast collection of recipes while engaging with the community through interactive features. The platform aims to enhance culinary knowledge-sharing through a seamless and intuitive user experience.

### Objectives

- Develop an **intuitive and user-friendly** platform for managing and discovering recipes.
- Foster **community interaction** by allowing users to engage with each other's content.
- Implement **smart search and filtering** to enhance recipe discoverability.



## Proposed Solution

### 1. User-Friendly Recipe Management

- ✓ Simple interface for adding, editing, and organizing recipes.
- ✓ Support for images, ingredients, and step-by-step instructions.

### 2. Community Engagement

- ✓ Users can like, comment, and rate recipes to share feedback.
- ✓ Follow favorite chefs and interact with their content.

### 3. Advanced Search & Filtering

- ✓ Search recipes by cuisine, ingredients, preparation time, and dietary preferences.
- ✓ AI-powered recommendations for personalized recipe suggestions.

### 4. Secure & Scalable Architecture

- ✓ **Authentication:** Secure login with JWT-based authentication.
- ✓ **Data Storage:** Scalable database (MongoDB) to handle large recipe collections.
- ✓ **Cloud Storage:** AWS/Supabase for high-quality image hosting.

### 5. Cross-Platform Accessibility

- ✓ Fully responsive design for seamless experience on web and mobile.
- ✓ Progressive Web App (PWA) support for offline access.

## Technology used

### Frontend

- **React.js** – For building a dynamic and responsive user interface.
- **Tailwind CSS** – For modern and efficient styling.
- **Redux (Optional)** – For state management if needed.

### Backend

- **Node.js & Express.js** – For handling API requests and server-side logic.

### Database

- **MongoDB** – NoSQL database for storing user and recipe data.
- **Mongoose** – ORM for easy interaction with MongoDB.

### Authentication & Security

- **JWT (JSON Web Token)** – For secure user authentication.
- **BCrypt.js** – For password hashing and security.

## Modelling & Result

### Recipe Sharing Platform

Enter an ingredient

Search

Sign In



**Chocolate Cake**

A delicious and easy-to-make chocolate cake recipe.

[Book Now](#)



**Pasta Primavera**

A healthy and tasty pasta dish loaded with vegetables.

[Book Now](#)



**Strawberry Ice Cream**

Sweet dreams are made of this... and strawberries!

[Book Now](#)



**Fruit Dessert**

Freshness in every bite 🍓

[Book Now](#)



**Fruit Dessert**

A little slice of sunshine

[Book Now](#)

## Modelling & Result

**Share Your Recipe**

Jeevitha

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Biryani

Short Recipe Description

Rasmati Rice - 2 cups Chicken / Mutton / Vegetables  
Paneer 500g (as per your choice)  
Onions - 2 Large  
| (thinly sliced) Tomatoes - 2

Cooking Steps (one per line)

Upload Recipe Image:

No file chosen

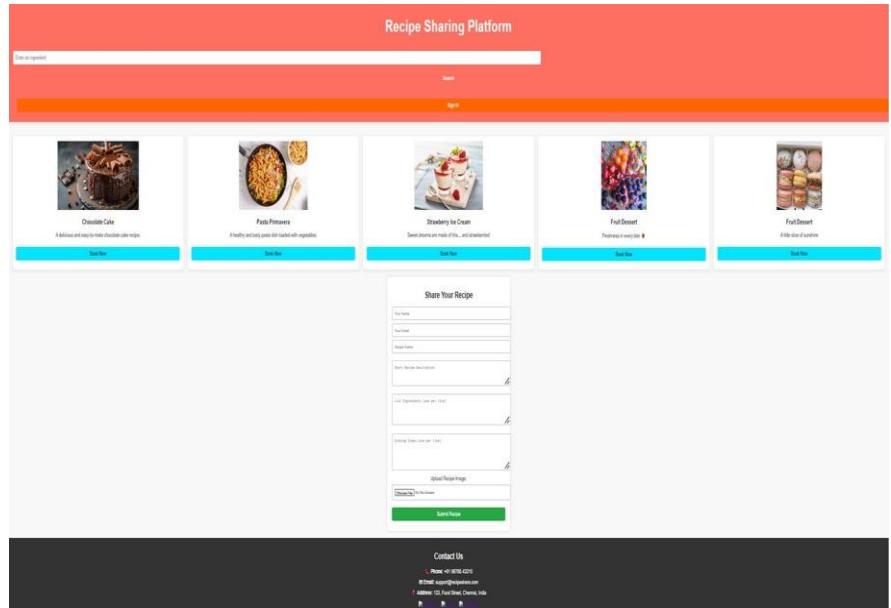
**Submit Recipe**

## Modelling & Result

The image shows a web application interface. At the top, there is a dark blue header bar with the text "Creating A Future-ready Workforce" on the left and the "edunet foundation" logo on the right. Below the header, the main content area has a light gray background. In the center, there is a "Sign In" modal window. The modal has a white background and a title "Sign In" at the top. It contains two input fields: "Email:" with the value "vdbhg@gmail.com" and "Password:" with the value ".....". Below the inputs is a large blue "Sign In" button. Behind the modal, there is a red banner with the word "Red" partially visible. Above the banner, a dark gray notification box appears with the text "127.0.0.1:5501 says" and "Sign In Successful!" followed by an "OK" button. At the bottom of the page, there is a horizontal row of four food-related images: a chocolate cake, a pasta dish, a dessert in glasses, and a fruit tart.

## Conclusion

- The **Recipe Sharing Platform** successfully creates an interactive and user-friendly space for food enthusiasts to share, explore, and engage with diverse recipes. By integrating a seamless **recipe management system, community-driven interactions, and advanced search functionalities**, the platform enhances the overall user experience.
- With a **secure, scalable, and responsive** architecture built using **React.js and Express.js**, the platform ensures optimal performance across devices. Additionally, features like **cloud storage, user authentication, and AI-powered recommendations** make it a modern solution for digital recipe sharing.





Thank you!

edunet  
foundation