

PROJECT DEFINITION DOCUMENT

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Task Matrix

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Project Summary	Target Audience	Budget & Resource
Objectives	Key Features	Risks & Mitigation Strategies
Scope	Deliverables	Project Success Criteria

Project Name: Todayz Meal

Project Summary:

Todayz Meal is a web application designed to help users find recipes based on the ingredients they have. Users can receive suggestions for meals they can prepare by entering their ingredients. Moreover, they can filter the meals according to preparation time and dietary preferences (vegetarian, vegan, gluten-free, lactose-free), and add recipes to their favorite section. This project aims to reduce food waste, make cooking more convenient and help people what to eat today.

Objectives:

- Enable users to input available ingredients
- Suggest recipes based on entered ingredients
- Provide recipe details, preparation steps and cooking time
- Allow users to save their favorite recipes
- Allow users to filter recipes according to their dietary preferences (vegetarian, vegan, gluten-free, lactose-free).

Scope:

Included:

- Recipe and ingredient search
- User accounts
- Dietary filters
- Preparation time filters
- Favoriting recipes

Not Included:

- Personalized meal plans
- Calorie tracking
- Automated grocery list generation
- Rating recipes

Target Audience: Everyone can use this website, but we predict especially students, busy professionals and home cooks will use it.

Key Features:

- Ingredient based and name based recipe search
- User account creation and login
- Favoriting and saving recipes
- Filtering recipes based on dietary restrictions and preparation time

Deliverables:

- Web application
- Documentation (requirements, project plan, project definition, user guide)
- Source code hosted on GitHub

Budget and Resources:

Resources: HTML, CSS, Javascript, React, Spoonacular API, Firebase, Slack, Github

Budget: We do not expect any cost since we will work without domain.

Risk & Mitigation Strategies:

Risk: Difficulty in integrating recipe database

Mitigation: Use reliable APIs like Spoonacular

Risk: Security vulnerabilities in user authentication

Mitigation: Implement some requirement controls when users create a password (eg. There should be 8 characters and one upper case character).

Risk: Compatibility issues across different browsers and devices

Mitigation: Conduct extensive testing on various platforms

Project Success Criteria:

- At least 80% of test users should find the website easy to use.
- The system should be able to generate recipe suggestions within 5 seconds.
- The application should implement all the key features successfully.