PROJECT PLAN DOCUMENT

Nisa Naz Keleşoğlu: 231101040

Zeynep Saçaklı: 221101051

Beril Aydın: 23110102

Task Matrix

Nisa Naz Keleşoğlu	Zeynep Saçaklı	Beril Aydın
Key Phases and Timelines	Budget Plan	Objectives
Project Organization	Resources Plan	Project Scope
Communication Plan	Risk Management	Change Management Plan

Project Scope:
The project will include a functional recipe and ingredient search system, user accounts, dietary filters, filtering by preparation time, and sorting recipes by the most liked, but will not calorie tracking, recipe rating, support meal planning or grocery list generation. If no exact match for available ingredients is found, the system will display the most liked recipes, highlighting the missing ingredients.

Project Organization:

- Beril: Backend development, database management

- Zeynep: Frontend development, UI/UX design

- Nisa: Documentation, testing, project coordination

Objectives:

- Ensure the project is delivered on time and within scope.

- Maintain clear communication and collaboration among team members.

- Implement agile methodologies to adapt to changes efficiently.

- Deliver a user-friendly and efficient application that meets user expectations.

- Conduct rigorous testing to ensure the reliability of features.

- Manage project risks proactively to avoid delays and technical issues.

Key Phases & Timeline:

1. Requirements gathering & UI/UX design (Week 1)

2. Backend and database setup (Week 2)

3. Frontend development (Week 3)

4. AI model integration & API implementation (Week 4)

5. Testing & debugging (Week 5)

6. Deployment & final documentation (Week 6)

Resource Planning :

- **Frontend:** HTML, CSS, React (for UI development)

- **Backend:** JavaScript, Firebase (authentication & database management)

- **APIs:** Spoonacular API (recipe data)

- **Version Control:** GitHub (for source code management)

- **Collaboration Tools:** Slack (commucination)

Risk Management:

- **Potential Risk:** Delays in development
  Mitigation: Weekly progress meetings

- **Potential Risk:** API limitations
  Mitigation: Have backup sources for recipe data

- **Potential Risk:** Security vulnerabilities

  Mitigation: Implement strong authentication and authorization protocols, use HTTPS, and regularly update dependencies.

- **Potential Risk:** Scalability issues if user base grows rapidly
  Mitigation: Optimize database queries, use caching mechanisms, and plan for potential server upgrades.

- **Potential Risk:** User retention challenges
  Mitigation: Introduce gamification, push notifications, and personalized recommendations to keep users engaged.

Communication Plan:

- Weekly team meetings will be held to discuss progress, address challenges, and ensure alignment on project goals.

- Slack will be used for daily communication, quick updates, and issue resolution.

- GitHub issues and project boards will be utilized for task tracking and collaboration.

- Email will be used for formal communication with external stakeholders, if required.

Change Management Plan:

- Any proposed changes to project requirements or scope must be submitted in writing via a shared document.

- The team will review proposed changes during the weekly meeting, and a decision will be made by consensus.

- If a change impacts the timeline or resources significantly, a revised project plan will be created and approved by all members.

- Changes will be documented in GitHub to maintain version control and track modifications.

Budget Plan:

- The project will primarily rely on free-tier services for hosting and APIs to minimize costs.