BLG 411E
SOFTWARE ENGINEERING
PROJECT PLAN

GROUP 20
Project Title: BastırChef

Muhammed Necati Polat

Hızır Emirhan Keskin

Merve İnal

Atacan Utkusavaş

Fadime Buse Yediparmak

10.11.2023

1. INTRODUCTION

This app is a vibrant platform connecting chefs and home cooks passionate about food. Our app enables chefs to share their favorite recipes, while users can effortlessly search for dishes based on their available ingredients. Users can create custom food lists, easily share them with friends, and discover new recipes tailored to their tastes. The app also offers intelligent recommendations, suggesting fresh recipes based on users' previous likes and preferences.

1.1. Scope

- Ingredient-Based Search
- Finding new recipes with the recommendation engine
- Deciding what and how to cook
- Preparing a shopping-list for missing ingredients

1.2. Deliverables

| Delivery ID	Delivery Name	Delivery Date
BC-000	Project Charter	21.10.2023
BC-100	Project Plan	10.11.2023
BC-200	Software Requirement Specifications	21.11.2023
BC-300	Software Requirement Analysis	28.11.2023
BC-400	Backend Service	10.12.2023
BC-500	Web-App and Admin Panel	18.12.2023
BC-600	Mobile App	18.12.2023
BC-700	Software Design Document	19.12.2023
BC-800	Test Report	02.01.2024

1.3. Functional Requirements

Task ID	Mapped Deliverable ID(s)	Functional Requirements	Technical Details
FR-1	BC-400 , BC-500	Admin Panel	Web based management which does CRUD functions
FR-2	BC-500 , BC-600	Can login with their credentials	Form for login
FR – 2.1		Account	Profile name, password, profile picture information
FR-3	BC-600	Can see food recipes of other users	Search algorithm, List, detailed page
FR-4	BC-400	According to liked and added recipes, can make recipe recommendations	Recommendation algorithm

FR-5	BC-400 , BC-600	Can make recipe list/playlists	List for that specific user, add functionality in database
FR-6	BC-400, BC-600	Creating shopping list	List for that specific user, add functionality in database
FR-7	BC-400, BC-500, BC-600	Reactions for posts	Pop-up part for comment and button for likes
FR-8	BC-400, BC-500	Adding Recipe	Form for recipe informations and descriptions, picture addition, submit
FR-8.1	BC-400, BC-500	Recipe view and edit	Edit button and editing form page, list for viewing recipes

1.4. **Non-functional Issues**
- **Usability:** The user interface ought to be straightforward and the user's interaction with the system should be pleasant.
- **Security:** User credential security will be protected.
- **Scalability:** The system should scale for several hundreds of users using it during busy course registration times.
- **Performance:** Application pages should open in a short acceptable time.
- **Modularity:** The program structure will be modular with different tasks bound to different services and modules.
- **Reliability:** Modules and framework will be integrated correctly so that both applications will perform as intended in any case.

2. PROJECT PLAN
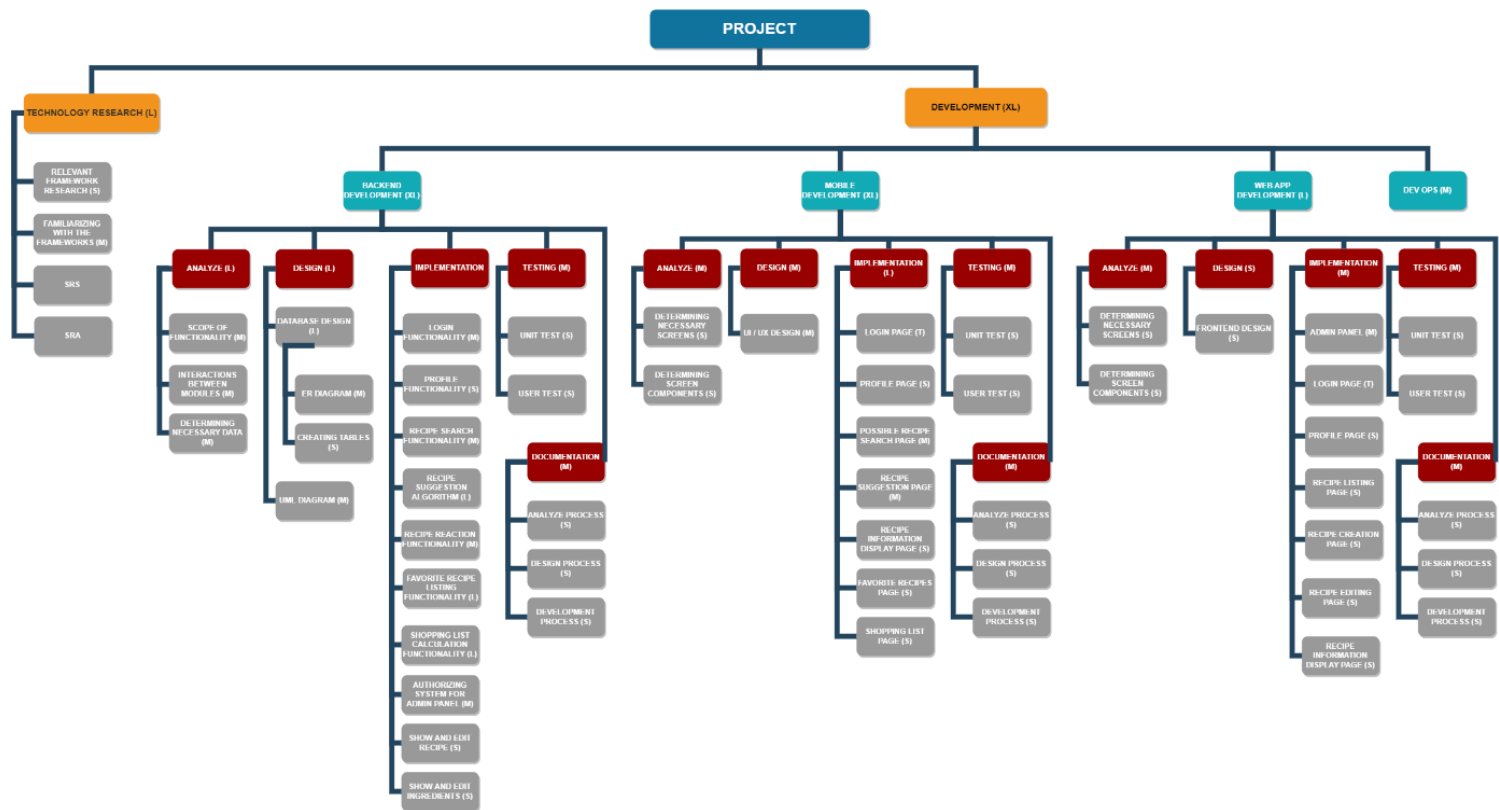
To clear images : **Drive Link**

3. ESTIMATES

Backend
Mobile
Web

Estimate ID	Task ID (from functional requirements)	Task	Man-Week Value
T-1		Technology Research	3
T-1-1		SRS	5
T-1-2		SRA	5
T-2		UML Diagram	2
T-3	FR-2	Login Functionality	0.5
T-4	FR–2.1	Profile Page	0.5
T-5	FR-3	Recipe Search Functionality	1
T-6	FR-4	Recipe Suggestion Functionality	1
T-7	FR-7	Recipe Reaction Functionality	0.5
T-8	FR-5	Favorite Recipe Listing	0.5
T-9	FR-6	Shopping List Calculation	0.5
T-31		Show and Edit Recipe	0.5
T-32		Show and Edit Ingredients	0.5

T-10		Testing	1
T-11		UI/UX Design	2
T-12	FR-2	Login Page	0.5
T-13	FR-2.1	Profile Page	0.5
T-14	FR-3	Possible Recipe Search Page	1
T-15	FR-4	Recipe Suggestion Page	1
T-16	FR-7	Recipe Information Display Page	0.75
T-17	FR-5	Favorite Recipes Page	0.75
T-18	FR-6	Shopping List Page	0.75
T-19		Testing	1
T-20		Frontend Design	1
T-21	FR-1	Admin Panel	2
T-22	FR-2	Login Page	0.5
T-23	FR-2.1	Profile Page	0.5
T-24	FR-8.1	Recipe Listing Page	0.5
T-25	FR-8	Recipe Creation Page	0.5
T-26	FR-8.1	Recipe Editing Page	0.5
T-27	FR-8.1	Recipe Information Display Page (likes,comments)	0.5
T-28		Testing	1
T-29		Overall Testing	2
T-30		DevOps	2

4. RESOURCES

| Name	Member Role	Project Activity Role
Muhammed Necati Polat	Team Leader	Backend Implementation for: ER Diagram, UML Diagram. Backend and Web Implementation for: Admin Panel, Login System, Reaction System, Favorite Recipe System. Analysis, Tests and Documentation of own modules.
Hızır Emirhan Keskin	Product Manager	Backend and Web Implementation for: Admin Panel, Suggestion System, Shopping List System, Show and Edit Recipe, Show and Edit Ingredients Analysis, Tests and Documentation of own modules.

Merve İnal	Software Engineer	UI/UX Designer, Mobile Implementation for: Profile, Shopping List, Search and Suggestion Pages Mobile Testing
Fadime Buse Yediparmak	Software Engineer	UI/UX Designer, Mobile Implementation for: Login, Favourite Recipes, Search and Suggestion Pages, Mobile Testing
Atacan Utkusavaş	Software Engineer	Backend and Web Implementation for: Admin Panel, Suggestion System, Profile System, Search System. Analysis, Tests and Documentation of own modules.

5. SCHEDULE
5.1. Gantt Chart
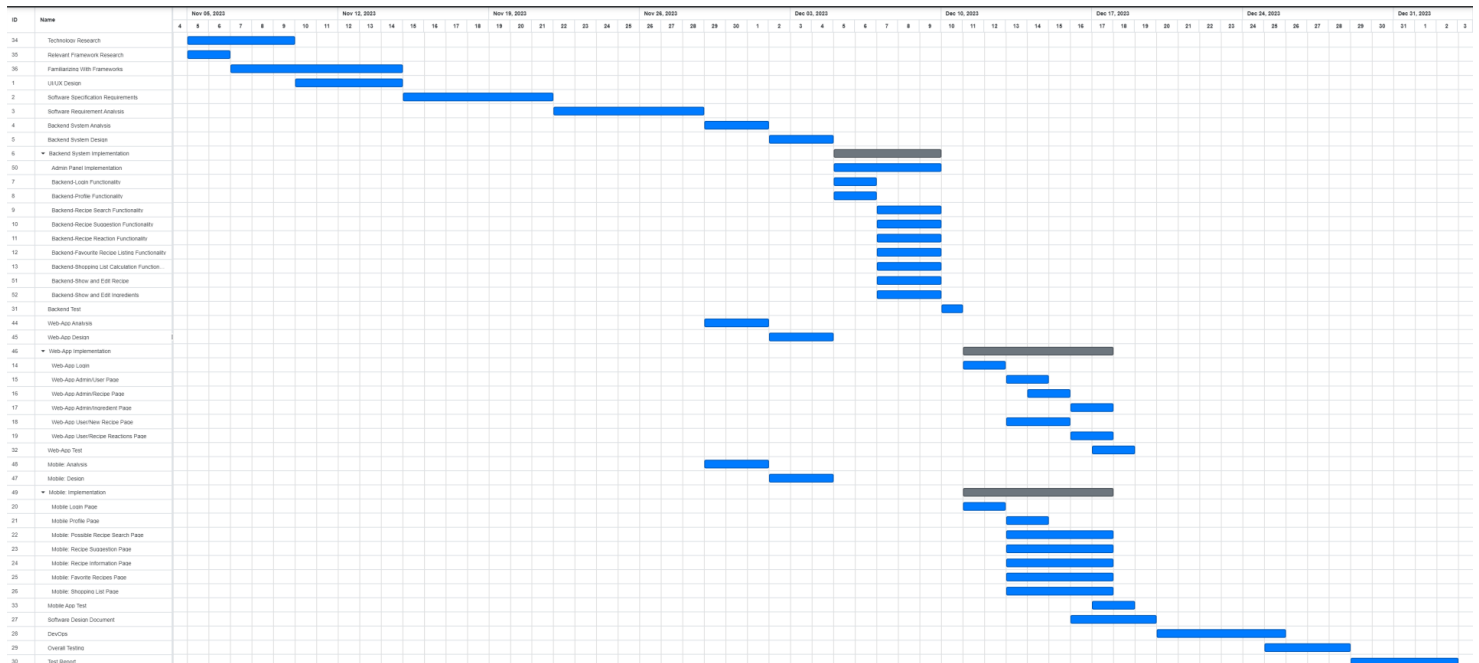
5.2. **Pert chart**
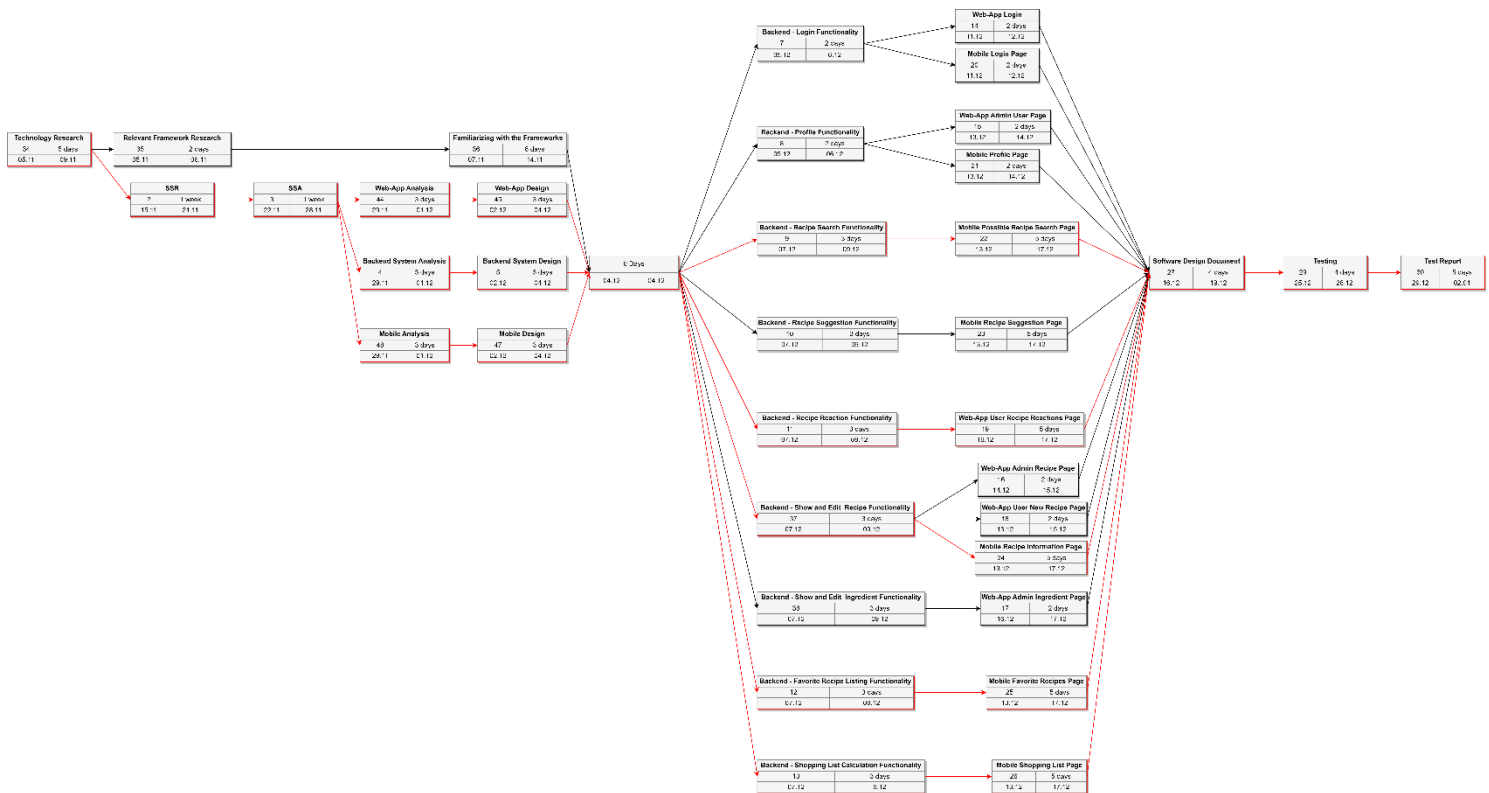
Clear Images: [Drive Link](#)

6. RISKS

6.1. **Risk Probability/Impact Chart**

Risks	Category	Probability (%)	Impact
Low accuracy of recommendation algorithm.	**TE**	70	3
Novice staff members have the potential to result in missed deadlines.	**ST**	50	3
Server can crash due to overload.	**PS**	5	2
Wrong recipe posting by users.	**CU**	10	1
A competitor can be released.	**BU**	15	3

PS: Project Issues, BU: Business, CU: Customer, TE: Technology, ST: Staff

6.2. **Risk Mitigation Chart**

Risk	Affect	Description
Low accuracy of recommendation algorithm.	Product	All personnel will be assigned for fixing the algorithm. More complex AI models can be developed.
Novice staff members have the potential to	Project	Personnel should dedicate their free time to studying the necessary programs and programming languages.

result in missed deadlines.		
Server can crash due to overload.	Product	To handle the incoming requests, it is advisable to increase the server capacities.
Wrong recipe posting by users.	Project	Recipes will be sorted or deleted according to user reactions.
A competitor can be released.	Business	The release should be postponed slightly in order to launch the application with additional features.