Project Plan :

Recipe Saver App

Contents:

Introduction

The application we are creating is a Recipe Book application. It will allow for user account creation, portion calculator for ingredients, as well as the ability to search for recipes. Users will also be able to add recipes to their favorite recipe catalogue. The purpose of this app is to allow easy recipe safekeeping while also being able to modify the portion of ingredients needed when cooking different amounts than what the recipe specifies.

Project Organization

Project Manager : Kayla Day

App Developer/Logo Designer : James Shoemaker

Documentation : Erick Semones

Risk Analysis

Project Risk Assessment		
Risk Register		
ID#	Category	Description
R01	Skills Resource Risk	Members fall ill
R02	Cost Risk	Project goes overbudget
R03	Schedule Risk	Project goes overschedule
R04	Performance Risk	Project does not function as intended
R05	Technology Risk	Project hardware fails
R06	Communication Risk	Team does not meet
R07	Scope Creek Risk	Unnecessary features are added to app
R08	Security Risk	Malicious software corrupts project data
R09	Operational Risk	Security breach causes hardware to crash

Project Risk Assessment							
Risk Evaluation							
ID#	Risk			Probability			
R01	Members fall ill			Low	Medium	High	Very High
R02	Project goes overbudget	Severity	Low				
R03	Project goes overschedule		Medium		R01, R04	R07	
R04	Project does not function as intended		High	R02, R06			
R05	Project hardware malfunction / failure		Very High	R05, R08	R03		
R06	Team does not meet						
R07	Unnecessary features are added to app						
R08	Malicious software corrupts project data						
R09	Security breach causes hardware to crash						

Hardware and Software Requirements

Category	Requirements
Hardware	Processor: 1.8GHz
	RAM: 2 GB minimum
	Storage: 50 MB for app, 1-2 GB for saved recipes
	Screen: Minimum 720p resolution
	Internet: Required for search and syncing
Software (Mobile)	Android: Version 6.0 or newer
	iOS: Version 12.0 or newer
Hardware (Tablets)	Similar specs to mobile devices (larger screen preferred)
App Features	Search for recipes by ingredients or type
	Save and edit recipes, Portion Calculator
	User Account Creation

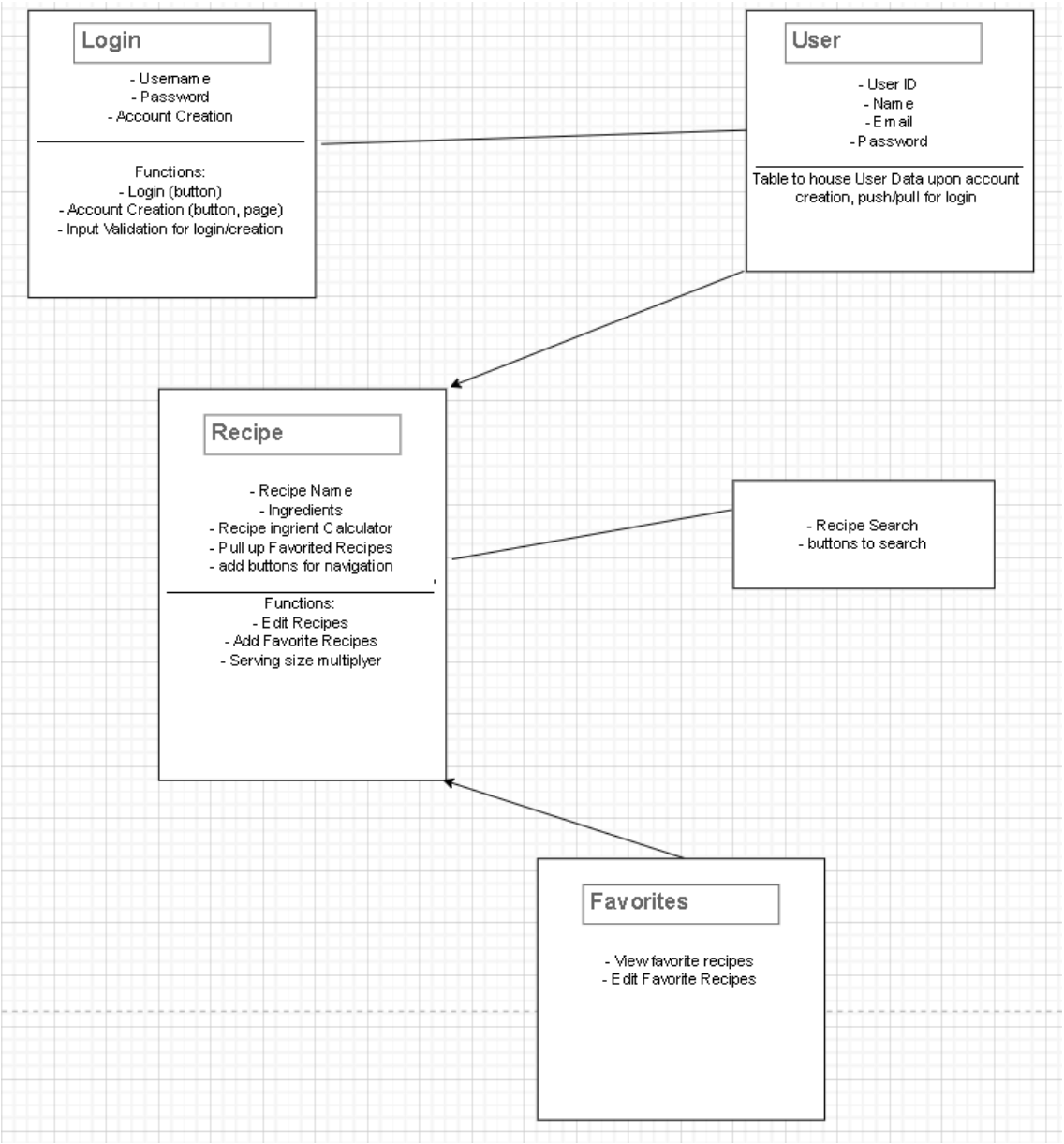
Internet	Required for searching recipes and syncing data

Work Breakdown

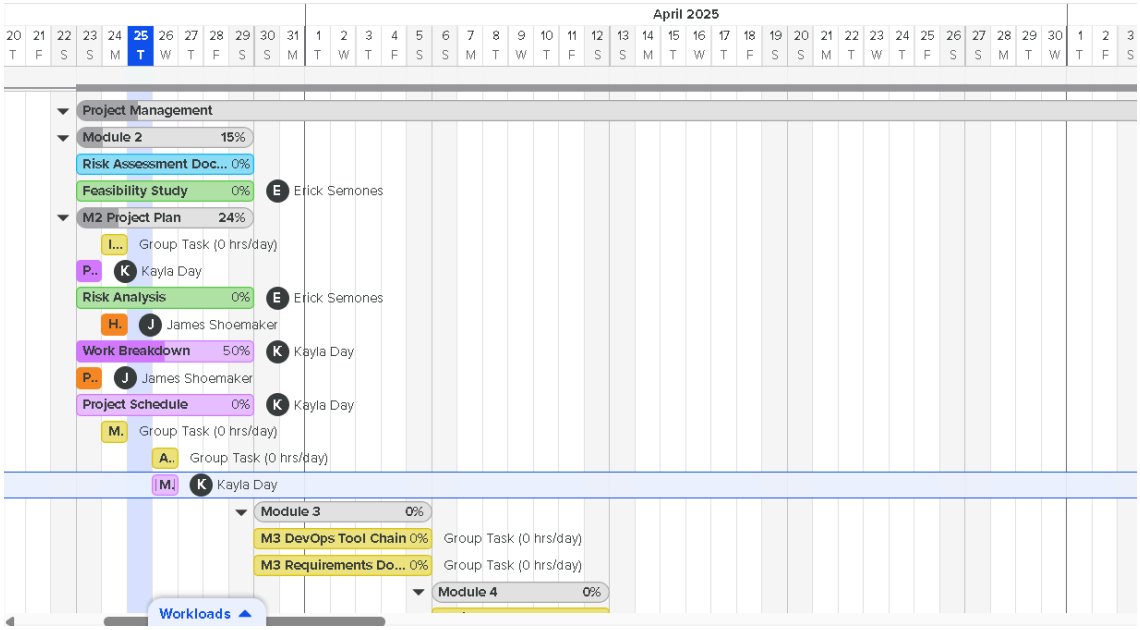
SDEV 265 Project	start	end
Project Management	**03/23/25**	**05/10/25**
Module 2	**03/23/25**	**03/29/25**
Risk Assessment Document	03/23	03/29
Feasibility Study	03/23	03/29
M2 Project Plan	**03/23/25**	**03/29/25**
Risk Analysis	03/23	03/29
Work Breakdown	03/23	03/29
Project Schedule	03/23	03/29
Appendix	03/26	03/26
M2 Team Meeting	03/26	03/26
Module 3	**03/30/25**	**04/05/25**
M3 DevOps Tool Chain	03/30	04/05
M3 Requirements Document	03/30	04/05
Module 4	**04/06/25**	**04/12/25**
Design Document	04/06	04/12
Team Meeting	04/10	04/10
Module 5	**04/13/25**	**04/19/25**
Check progress on coding	04/13	04/19
check progress on documentation	04/13	04/19
check progress on project manag...	04/13	04/19
check completion of work breakdo...	04/13	04/19
Module 6	**04/20/25**	**04/26/25**
Team Meeting	04/20	04/26
Module 7	**04/27/25**	**05/03/25**
User documentation	04/27	05/03
Implementation Plan	04/27	05/03
Module 8	**05/04/25**	**05/10/25**
Team Meeting	05/04	05/10
Presentation	05/04	05/10
Software Solution	05/04	05/10

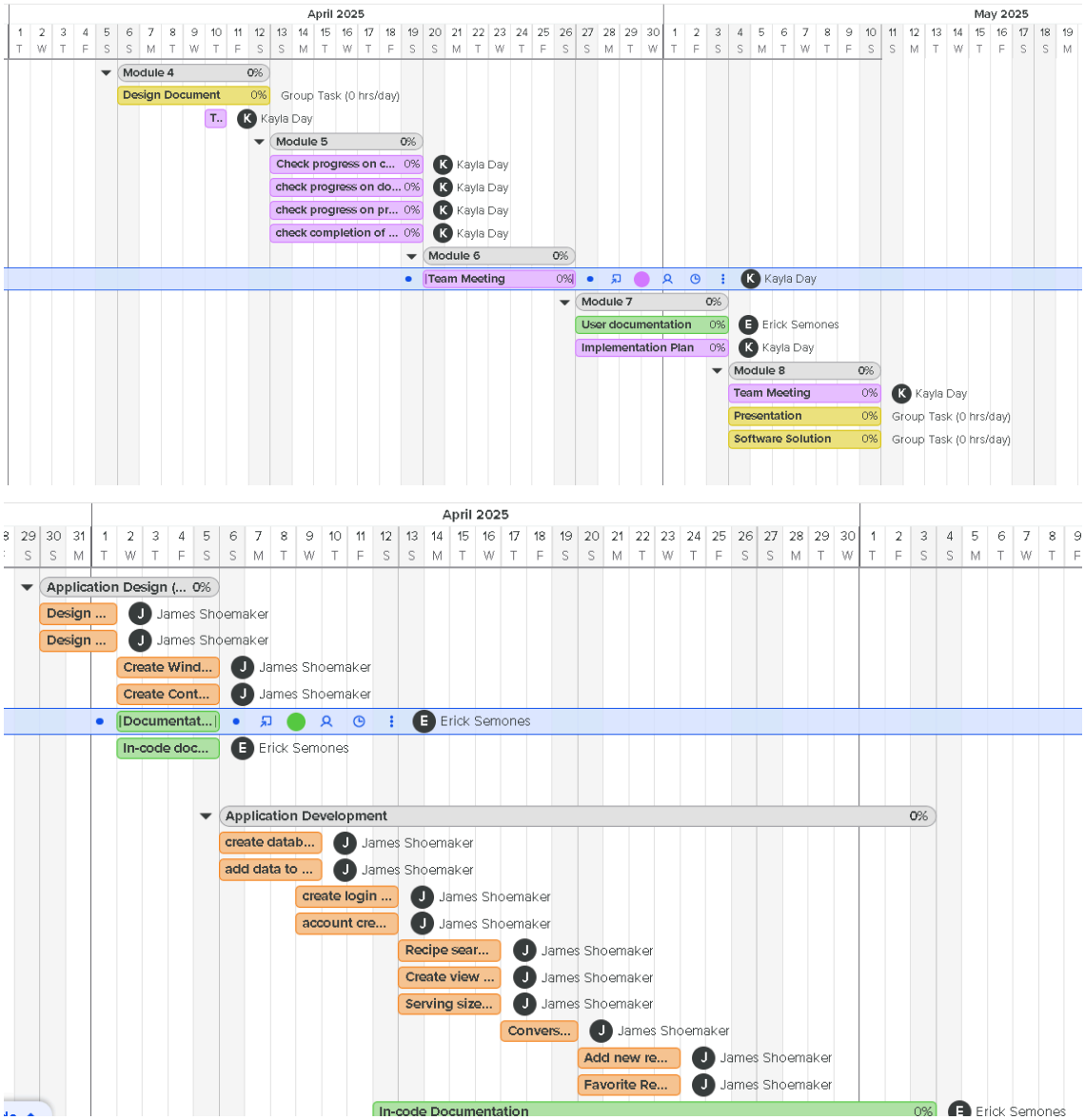
Application Design (UX/UI)	**03/30/25**	**04/05/25**
Design GUI Layout	03/30	04/01
Design Database Tables	03/30	04/01
Create Windows/Frames	04/02	04/05
Create Containers for content/featur...	04/02	04/05
Documentation of frameworks/resou...	04/02	04/05
In-code documentation	04/02	04/05
Application Development	**04/06/25**	**05/03/25**
create database tables	04/06	04/09
add data to database tables	04/06	04/09
create login functionality	04/09	04/12
account creation functionality	04/09	04/12
Recipe search funtionality	04/13	04/16
Create view of recipe Functionality	04/13	04/16
Serving size multiplier functions	04/13	04/16
Conversion functions	04/17	04/19
Add new recipe	04/20	04/23
Favorite Recipes	04/20	04/23
In-code Documentation	04/12	05/03
Quality Assurance	**04/24/25**	**05/03/25**
Create list of activities to validate	04/24	04/26
Validation Testing	04/27	04/30
Documentation of Validation Testing	04/27	05/03
"Deployment" (Prepare for Submis...	**05/04/25**	**05/09/25**
gather/final touchup of all document...	05/04	05/08
gather project code and resources	05/04	05/08
Add to repository for submission	05/04	05/09

Process Flow Diagram



Project Schedule





Monitoring and Reporting Mechanisms

We are using Discord, TeamGantt, and Google Docs to keep track of assignments, due dates, communication, and progress. These are all used as well as taking advantage of breakout rooms in our class Zoom sessions. Discord is our primary communication tool and TeamGantt is all for the organization and scheduling. Google Docs allows us to work on assignments together as we are all able to share the individual document.

Appendix

	Activity	Summary	Time to complete	Dependency
1.	Planning	Planning work breakdown, risks, requirements, schedule, and roles of project.	1 week (8 hour days, M-F)	Communication, Team engagement
2.	Designing Application	Outlining purpose, layout, and features of application. Designing the GUI layout of windows, containers, and buttons.	8-12 hours	
3.	GUI development	Programming Windows, containers, and buttons in GUI for features to be added to and to incorporate/test user interactivity/flow	24 hours	Design of GUI layout, Design of features
4.	Database design	Outlines the database tables that will store recipes and registered users, as well as keys, foreign keys, and plans for features that will actively use the database.	8 hours	
5.	Database development	Creation of the recipes and	8 hours	Design of database

		registered users tables according to design.		
6.	Login Feature	Programming of form, with input boxes that accept username and password. Successfully integrates the database to validate login credentials, while controlling input for security. Use of classes for OOP and to organize between frontend and backend.	8 hours	Successful design and development of database, GUI design and development, Successful login depends on user existence in the database.
7.	User Account Creation	Programming of form, with input boxes that accept first name, last name and other fields defined in the design of this feature. Allows user to create username and password. Required fields, input control and validation are included. Successfully updates database with data entered by the user with use of best practices for security and coding.	8-12 hours	Successful design and development of database, GUI design and development
8.	Recipe Feature	Includes the	24-48	Successful

		ability to view, click desired portion sizes to reflect changes in ingredients list and the required amount of each ingredient (lists converted amounts if applicable), search for recipes, and includes add to list/favorites.	hours	design and development of database and GUI, existence of recipe in database, successful and accurate conversion functions.
9.	Conversion functions and Multiplier functions	Coding of functions that multiply the number amount (of the ingredient) based on chosen portion size of recipe. Functions that decide if conversion is needed based on new amount and unit used. Conversion functions convert commonly used household units used when cooking/baking.	1 week (8 hour days, M-F)	Successful design and development of database, Proper print statements for debugging, Knowledge in basic math skills to accurately define and implement multipliers and conversion methods into code. Proper integration of Recipes feature
10	Add Recipe Feature	Programming of form with input fields/buttons to allow the user to add a new recipe. Input validation, control, and use of best practices to incorporate security. Adds the new recipe to the	24 hours	Successful design and development of database and GUI. Successful input controls and input field design for successful integration with the database so

		database.		that the new recipe meets the format criteria of the database to be successfully used with other features.
11.	Add recipe to favorites feature.	Programming of favorites instance to create a new instance of a favorite when the button is clicked, and removes instance when button is unclicked. All instances of favorites stored in list by Recipe name or other designed Key, for integration with database. Function that puts clickable recipe names in viewable list for the user.	24 hours	Successful design and development as database, to be able to integrate the recipes in the favorites list with the recipe stored in the database. Successful design and development of GUI.
12.	Validation Testing	Testing of application and each feature to ensure a quality and bug free deployment.	8-12 hours	Development phase completed.
13.	Documentation	Documentation in code and of versions/frameworks used through out the project. Validation testing documentation.	1 week (8 hour days, M-F)	Existing code, knowledge of installations and versions, and validation testing complete