

# Recipe Book WebApp

CA Advanced Programming

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# Agenda



**Project background**



**System design**



**Technologies**



**Features**



**Future implementations**

# Project background

**Recipe Book WebApp** that allows users to look for recipes and to create and manage their personal recipes with the goal of making cooking more organized and more social.

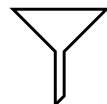
## Main functionality



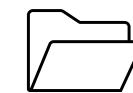
Search



Manage



Filter



Categorize

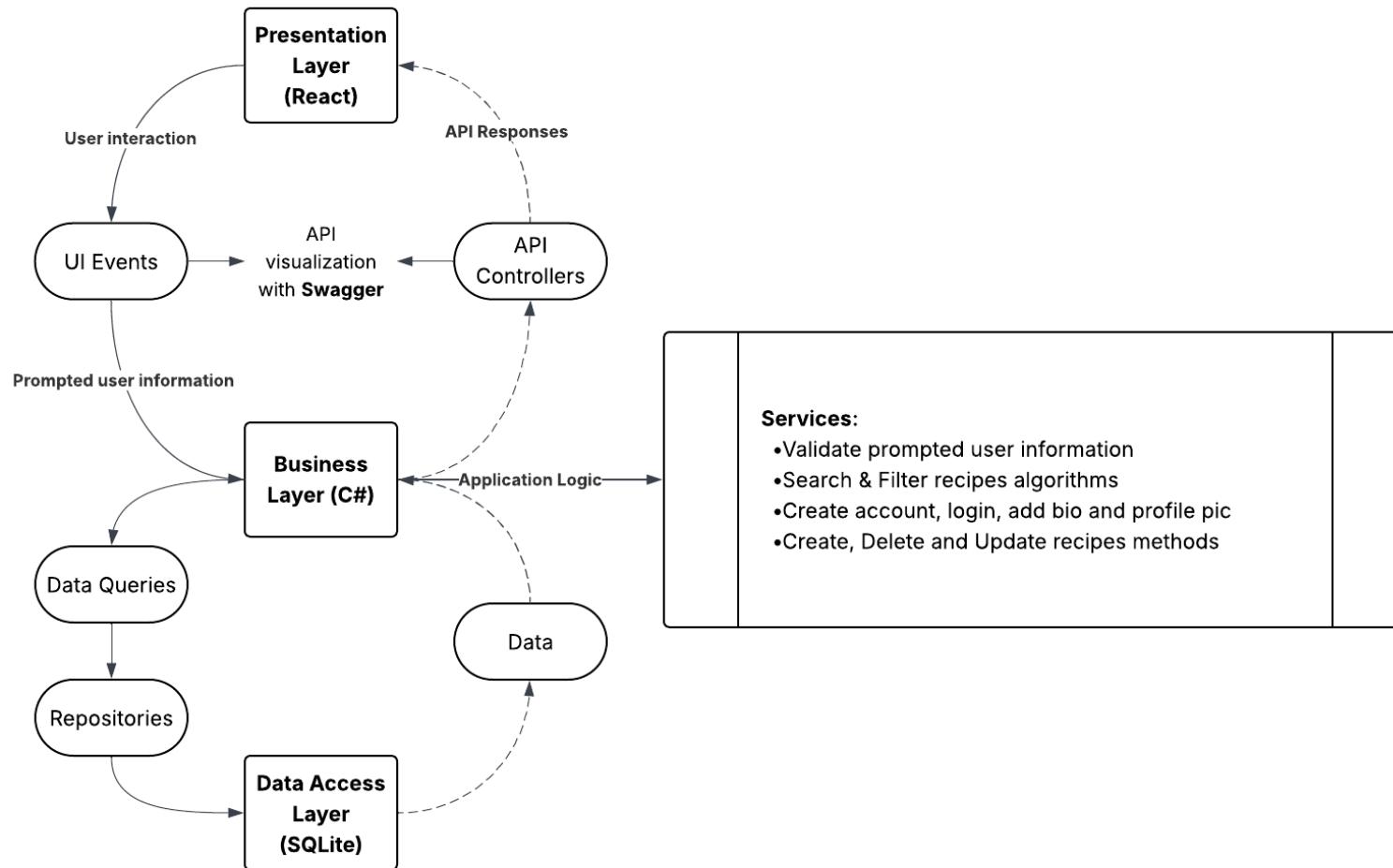
## Target audience:



- People who cook often
- Families who share recipes
- Beginners looking for recipes
- Anyone who wants a digital recipe system

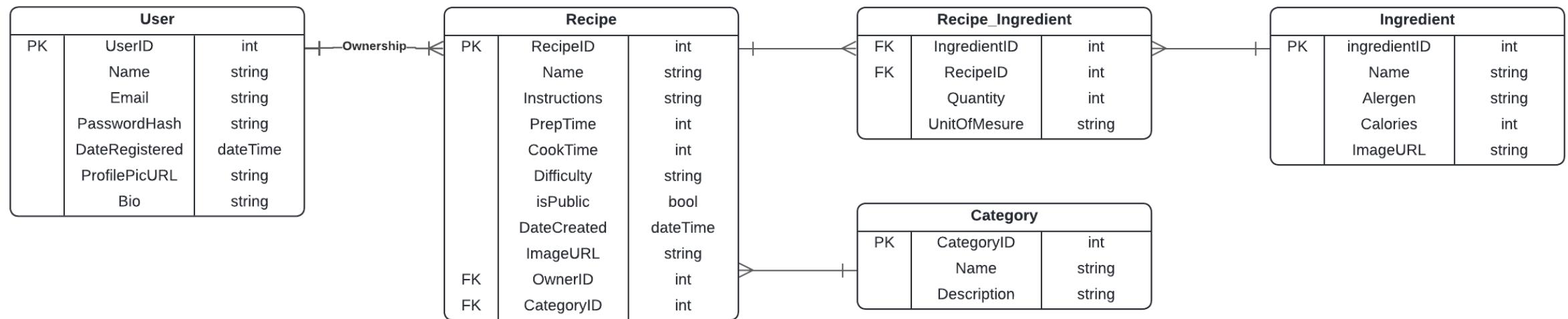
# System design

## Flowchart



# System design

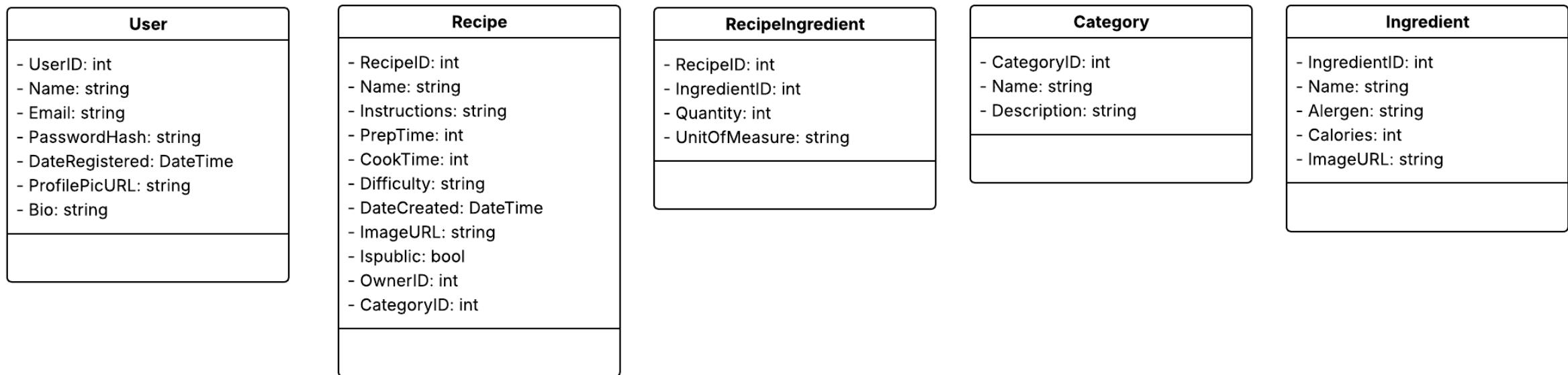
## ERD



# System design

## UML – Classes design

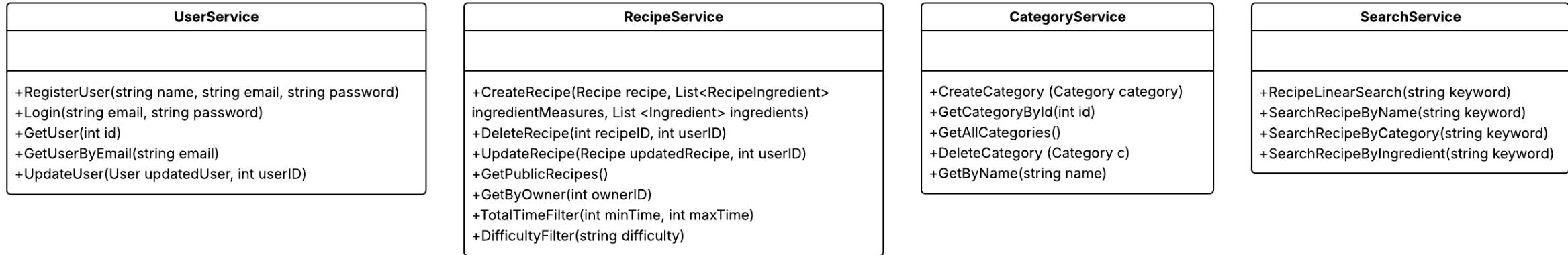
### RecipeBookAPI/Models



# System design

## UML – Business Logic Layer

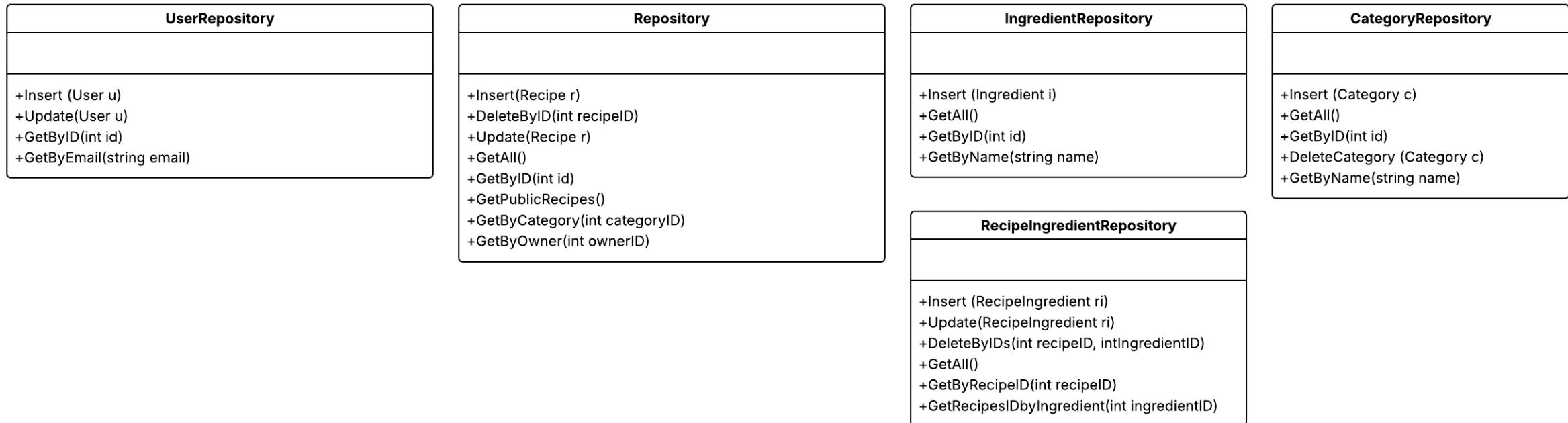
### RecipeBookAPI/Services



# System design

## UML – Data Access Layer

### RecipeBookAPI/Repository



# Technologies



## Swagger

Test API endpoints, visualize request/response structures, and interact with the backend during development without needing a frontend.



## SQLite

Lightweight database and easy to integrate for this project size.



## C#

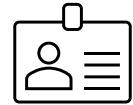
The backend uses ASP.NET Web API, which handles all the business logic and data processing.



## Git & GitHub

Standard version control

# Features



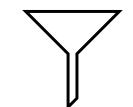
## Authentication

- Create account
- Login
- Change password
- Update account



## Search recipes by:

- Name
- Ingredient
- Category



## Filter recipes by:

- Total time
- Difficulty



## Manage recipes

- Create
- Update
- Delete
- Get all public recipes in a list
- Get user owned recipes
- Public and private recipe visibility



## Categorize

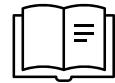
- Create
- Get a list with all categories
- Delete
- Get categories by name

# Future implementations



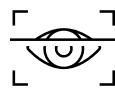
## Frontend

Responsive design with React



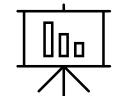
## Recipe books

Gather recipes in recipe books that can be shared between users



## Easier and safer authentication

Third party sign in and handling credentials following industry standards



## User dashboard

Provide the user with data from their recipes: views, likes, etc.



## Like a recipe

Users can save their favourite recipes by liking them