

# Web Application Design Requirements

## Project: Kitchen Table Recipes

### Description:

Most of us have slips of paper with recipes given to us from friends, co-workers and family. How do we store them? How do we find that great tailgating recipe from your co-worker? Kitchen Table Recipes is a Windows-based online recipe box to keep track of those jewels. KTR lets you type in your recipe and then call it up later to edit, view or print. You can safely upload grandma's secret recipe since private recipes are only accessible by the recipe owner. Your recipes are only accessible by others if you mark the recipe as shared.

### Tech Stack

- C#
- HTML
- CSS
- ASP.NET
- Microsoft SQL Server
- Windows OS

### Hosting

In it's initial release KTR will not be hosted on the internet. IIS Express will be used to 'host' the application. The application will be self-certified.

### Functionality / Features

- Users must sign up for an account in order to save recipes
- Registered users will be able to create/upload their personal recipes
- Registered users can update and delete their personal recipes
- Registered users can determine if recipes are visible to other users and non-users
- Visitors can only view 'public' recipes
- Registered users can view and print their own and shared recipes
- Site administrator can view, edit, and delete all recipes

## Security & User Roles

- Administrator: Has complete control over the app functions
- Registered User: Can access their own recipes (create, edit, delete)
  - Can view other user recipes marked as 'shared'
- Visitor: Can browse and view recipes marked as 'public' (Optional. This feature may be dropped if necessary due to time constraints.)

## Site Layout / Site Map

Here you will layout the page structure of your web app. An example is a site layout is below.

## Page Templates

The app will have at least the following pages:

- Welcome/home – Opening page, description of app
- Login – Visitors must log in in order to view and upload recipes
- Browse -Registered users and administrators can browse shared recipes
- View – View recipe details
- Upload/Create – Registered users can upload/input recipes
- Edit – Registered users can edit their own recipes (Administrators can edit any recipe)
- Contact – Page for visitors and users to send messages to app administrator

## Browser and Device Support

Current browsers will support this application; Firefox, Chrome, Edge, Internet Explorer. Once hosted, up to date Android mobile devices will also support the app.

## Database Design

The following database tables will be used in developing this application. In addition, a number of tables related to user accounts and security levels are created by Visual Studio. AccountUserId and User Roles will be used to validate access to various sections of the app.

Table 1: Users

Column	Datatype
UserId	Int, primary, identity, not null
Fname	varchar
Lname	varchar
Email	varchar
AccountUserId	text, foreign key

Table 2: Recipe

Column	Datatype
R_id	int, not null, primary, identity
R_Name	varchar, not null
UserId	int, not null, foreign key
Servings	int, not null
C_id	Int, not null, foreign key
S_id	int, not null, foreign key

Table 3: RecipeCategory

Column	Datatype
C_id	int, primary, not null
Category	varchar, not null

Table 4: RecipeStatus

Column	Datatype
S-id	int, primary, not null
Status	varchar, not null

Table 5: Ingredients

Column	Datatype
I-id	int, primary, not null
R_id	int, not null, foreign key
Meas	int, not null
Unit	varchar, not null
Item	varchar, not null
Prep	varchar, not null

Table 6: Preparation

Column	Datatype
Prepld	int, primary, not null
Step	int, not null
Instr	text, not null
R_id	int, not null, foreign key

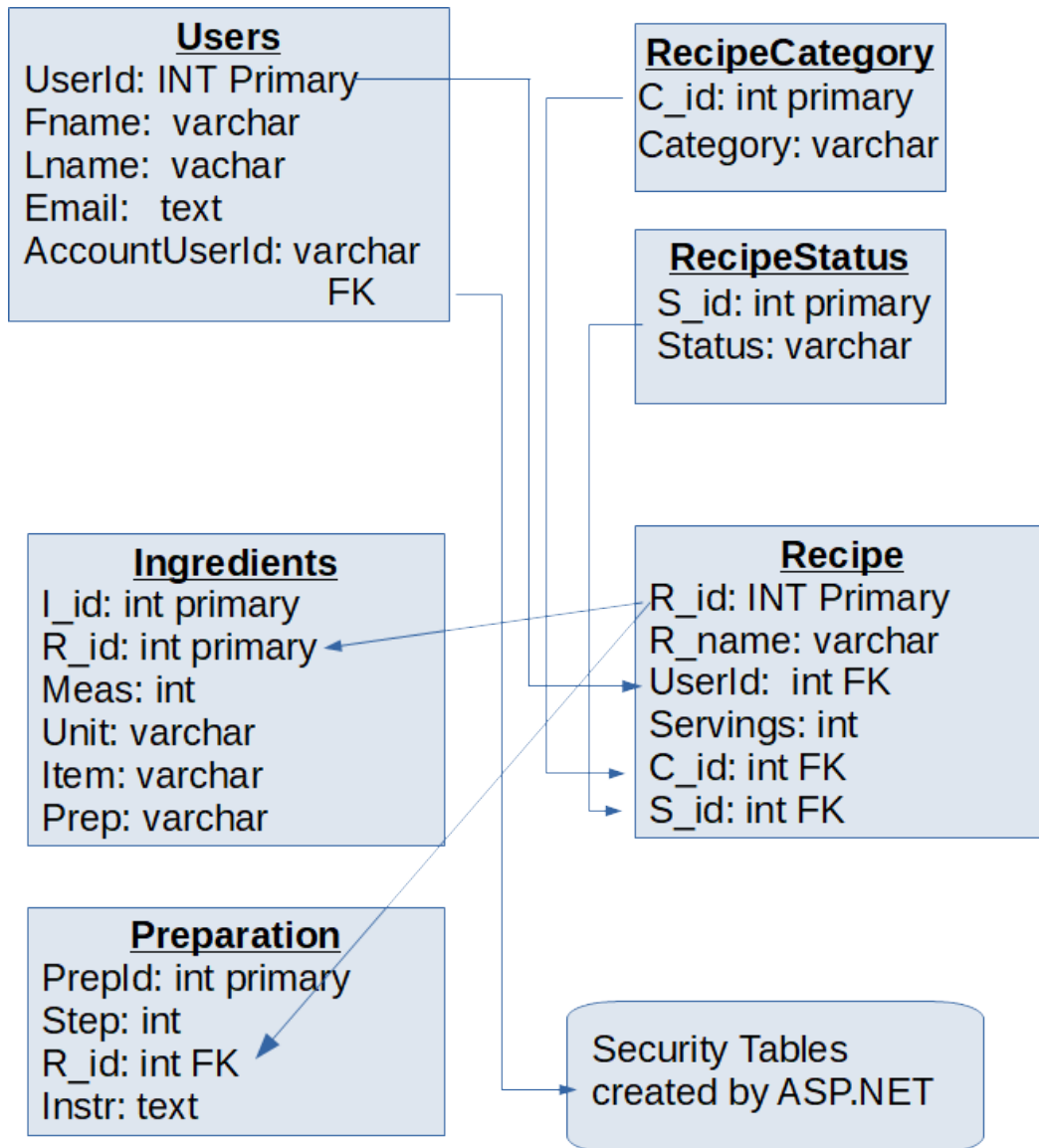


Figure 1: Database Diagram Showing Connections

## Deadlines

Design Document: October 7, 2020

Database Creation: October 8, 2020

ASP.NET MVC Scaffolding: October 8, 2020

Controllers and Constructors: October 22, 2020

Finalize Views: October 22, 2020

Beta Testing: October 28, 2020

Class Demo: November 4, 2020

October 2020						
Su	Mo	Tu	We	Th	Fr	Sa
27	28	29	30	1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31
1	2	3	4	5	6	7

Project Due Date: November 6, 2020