**Proposal for Content Management System (CMS)**

**Business Name:** Food Hub

Food Hub is a Winnipeg-based non-profit organization dedicated to promoting healthy eating habits and food literacy in the local community. They offer a variety of resources including recipes, nutritional advice. To streamline their operations and make their resources more accessible, Food Hub requires a web-based Content Management System (CMS) that allows them to manage and display content efficiently.

**CMS User Roles:**

Administrator: Has full access to the CMS, including managing users, adding or updating recipes, and modifying website content and can perform admin CUD tasks,

Registered Users: Can view content, leave comments on recipes or create and edit recipes

Public Users: Can browse recipes and leave comments but need to register to create and edit recipes.

**Database Structure Description**

*Users Table:*

Purpose: Stores information about all the users registered in the system.

*Columns:*

id (int, primary key): Unique identifier for each user.

username (varchar): User's unique username.

password (varchar): Encrypted password for user authentication.

*Posts Table:*

Purpose: Contains all the recipes posted on the site.

*Columns:*

id (int, primary key): Unique identifier for each recipe.

title (varchar): The title of the recipe.

date (timestamp): The date and time the recipe was posted.

content (varchar): The detailed instructions and ingredients of the recipe.

vegetarian\_id (int, foreign key): Links to whether the recipe is vegetarian.

image (varchar): Path to an image of the recipe.

*Comments Table:*

Purpose: Stores user comments on recipes.

*Columns:*

id (int, primary key): Unique identifier for each comment.

post\_id (int, foreign key): Links to the recipe that the comment is associated with.

comment (varchar): The text content of the comment.

*Vegetarian Table:*

Purpose: Categorizes recipes based on whether they are vegetarian or not.

*Columns:*

id (int, primary key): Unique identifier for each category.

name (varchar): The name of the category (e.g., Vegetarian, Non-Vegetarian).

**Summary of Relationships**

One User Many Comments: Each user can leave multiple comments across various posts.

One Post Many Comments: Each post can have multiple comments from different users.

One Category (Vegetarian) Many Posts: Each category can include multiple posts.