DIY Project Sharing Platform:

# Description

# DIY (do-it-yourself) projects and tutorials with a vibrant community of enthusiasts. This platform will allow users to upload photos and videos, along with detailed step-by-step instructions for their projects, fostering creativity and collaboration. By providing a space for individuals to showcase their skills and share their experiences, we hope to inspire others to embark on their own DIY adventures, while also building a supportive network of like-minded creators.

# Module 1: User Authentication Model:

Allow users to register and log in securely to access the volunteer management system. Users can create profiles, manage their account settings, and access the system's features based on their roles and permissions.

## User Registration

Allow users to create new accounts by providing necessary information such as username, email, and password and other required information for registration.

Process user registration requests, validate input data, and store user information securely in the database.

Strong password policies should be enforced (Example:minimum length, character variety).

E-mail Varification can be implemented to confirm user legitimacy and prevent spam accounts.

## Login

## Login Form: Design a login form where users can enter their credentials (username/email and password) to access their accounts.

## User profile and account management

- Profile Management: Allow users to view and edit their profile information, including personal details, profile picture, bio, and preferences.

- Account Settings: Provide options for users to update account settings, such as changing passwords, email addresses, notification preferences, and privacy settings.

# Module 2: Project Management Module

The DIY Project Sharing Platform can include a robust Recipe Management Module that allows users to create, edit, and delete their own recipes with ease. This module can consist of several submodules to facilitate the process of adding projects, project details , and uploading images for their projects. Here's how the projects Management Module can be structured:

1. Create projects: Users can start by creating a new recipe by providing a title, description, and selecting relevant categories such as home decor, woodworking, and papercraft.

2. Add media: In this submodule, users can list all the ingredients required for their recipe. They can specify the quantity, measurement units, and any additional notes or variations for each ingredient. Users can also search for ingredients from a pre-populated database to ensure consistency and accuracy.

3. Upload PDF: Users can input step-by-step instructions for their projects. It is done through uploading pdf of the project including instructions for making the particular DIY project.

4. Upload Images: Users can enhance their projects by uploading high-quality images that showcase the final dish at various stages of preparation. Images can provide visual cues to users and entice them to try the recipe. Users can also add captions or labels to the images for better context.

5. Edit Projects: Users have the flexibility to edit their projects at any time, whether it's to correct a mistake, update a category type, title, description. The Edit project feature allows users to make changes quickly and efficiently without losing any previously saved data.

6. Delete projects: If users no longer wish to keep a project on the platform, they can easily delete it using the Delete option. This ensures that users have full control over their content and can manage their project collection according to their preferences.

# Module 3: Step-by-Step Instructions Module

The Recipe Browsing Module is an essential component of the Recipe Sharing Platform that allows users to explore a wide range of recipes shared by other users. This module enables users to discover new dishes, find inspiration for their next meal, and save their favorite recipes for future reference. Here's how the Recipe Browsing Module can be structured with submodules for filtering and searching recipes:

1. Browse Recipes: Users can access a curated collection of recipes displayed in a visually appealing grid or list format. They can scroll through the recipes, view images, read descriptions, and see key details such as preparation time, difficulty level, and user ratings. The Browse Recipes submodule provides an overview of the available recipes for users to explore.

2. Filter Recipes: Users can refine their recipe search by applying filters based on different categories such as cuisine type, meal type (e.g., breakfast, lunch, dinner), dietary restrictions (e.g., vegan, gluten-free), cooking techniques, and more. By selecting specific filters, users can narrow down their search results and find recipes that match their preferences.

3. Search Recipes: The Search Recipes submodule allows users to enter keywords or phrases to search for specific recipes. Users can search by recipe title, ingredients, cuisine names, or any other relevant terms. The search functionality provides quick access to recipes that align with the user's interests or cravings.

4. Save Favorite Recipes: Users can save their favorite recipes to a personalized recipe collection for easy access later on. By using the Save Favorite Recipes feature, users can bookmark recipes that they want to try or refer back to in the future. This submodule helps users organize and keep track of recipes they love.

5. View Recipe Details: When users click on a specific recipe from the browsing interface, they are directed to a detailed view that includes all the information about the recipe. This view displays the ingredients, cooking instructions, images, user reviews, and any additional notes provided by the recipe creator. Users can get a comprehensive understanding of the recipe before deciding to try it.

# Module 4: Ratings and Reviews Module

The Ratings and Reviews Module is a crucial component of the Recipe Sharing Platform that allows users to provide feedback on recipes they have tried, helping other users discover popular and highly-rated recipes. This module enhances user engagement, fosters community interaction, and provides valuable insights for users seeking recommendations. Here's how the Ratings and Reviews Module can be structured with submodules for rating, reviewing, and sorting recipes based on user feedback:

1. Rate Recipes: Users can rate recipes on a scale (e.g., 1 to 5 stars) to indicate their overall satisfaction with the dish. By assigning a rating, users can share their opinion on the recipe's taste, presentation, ease of preparation, and other relevant factors. The Rate Recipes submodule allows users to quickly provide feedback and contribute to the recipe's overall rating.

2. Write Reviews: Users can write detailed reviews sharing their experience with the recipe, including any modifications made, tips for improvement, or personal anecdotes related to the dish. Reviews can offer valuable insights for other users considering trying the recipe and create a sense of community engagement within the platform. The Write Reviews submodule encourages users to share their thoughts and engage in meaningful discussions about recipes.

3. View Ratings and Reviews: Users can access a compilation of ratings and reviews for each recipe, displayed alongside the recipe details. By viewing ratings and reviews from other users, individuals can gauge the recipe's popularity, quality, and user satisfaction level. The View Ratings and Reviews submodule provides transparency and social proof to help users make informed decisions when selecting recipes to try.

4. Sort by Ratings: Users can sort recipes based on their average ratings to discover highly-rated dishes that have received positive feedback from the community. The Sort by Ratings feature allows users to prioritize recipes with higher ratings, ensuring they explore recipes that are well-received by others. This submodule streamlines the recipe discovery process and highlights top-rated recipes for user consideration.

5. Rate and Review History: Users can access a history of recipes they have rated and reviewed, enabling them to track their feedback contributions and revisit recipes they have previously evaluated. The Rate and Review History submodule offers users a convenient way to reference their past interactions with recipes and reflect on their culinary experiences over time.

# Module 5: Comments Module

Allowing users to leave comments on recipes can create a sense of community and encourage interaction among users. It can also provide valuable feedback for recipe creators and help answer any questions that users may have. Implementing a comments module can definitely enhance the overall user experience on your platform

# Module 6: Personalized Recommendation

1. User Preferences: Allow users to set their dietary preferences, such as vegetarian, vegan, gluten-free, etc., and use this information to tailor recipe recommendations.

2. Browsing History: Track the recipes users have viewed or interacted with and use this data to suggest similar or related recipes.

3. User Interactions: Consider the recipes users have saved, liked, or commented on, and use this information to recommend other recipes that align with their interests.

4. Seasonal Recommendations: Provide recommendations based on the current season or upcoming holidays, offering relevant recipes for specific times of the year.

5. Popular Recipes: Showcase trending or highly-rated recipes to users, based on overall popularity and positive feedback from other users.

6. Ingredient-Based Recommendations: Suggest recipes based on ingredients users have previously used or shown interest in, helping them make the most of their pantry staples.