Software Application Development

CA1: Web Application development proposal

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| 1. **App Ideas**   *Brainstorm and present at least ONE distinct app idea suitable for the project. Each idea should be accompanied by a brief description highlighting its purpose and potential impact.*  *E.g.*  *A online shop selling XYZ: A platform where users can browse and purchase XYZ products ranging from electronics to clothing.*  CookBook Hub is a recipe sharing platform designed to facilitate recipe discovery, sharing, and management. In this platform, users can create profiles, share their culinary creations, and explore recipes contributed by others. |
| 1. **Key Features and Functionalities**   *Identify and describe the essential functionalities envisioned for the web application. Ensure that the features encompass the fundamental CRUD operations expected in a web application.*  *E.g.*  *Function 1: Product Catalog: Display all products for users to browse*  *Function X: ….*  Function 1: User profile   * Users can create their own accounts and log in. Profile includes editing and updating their profile picture, bio and personal information.   Function 2: Recipe data system   * Users can create new recipe with information such as title, ingredients, instructions, and images. * Users can retrieve data by going to the recipe catalogue to view a list of all recipes or search for a specific one using filters like cuisine, ingredients, or preparation time. * Users can update and edit their recipes even after uploading. * Users can delete their own recipes from their account.   Function 3: Community interaction   * Users can comment on other user’s recipes. * Users can privately message or comment for any questions they may have * Users can like or share the recipe.   Function 4: Search and Filters   * Users can use the search bar to search for specific recipes or find recipe based on keywords. * Users can filter for cuisine type, dietary restrictions, and preparation time. |
| 1. **Database Fields**   *Define the necessary database fields for the proposed application. This involves outlining the tables, columns, and data types required to store relevant information effectively.*  *E.g*  *Users table*   |  |  |  | | --- | --- | --- | | ***Fields*** | ***Data Type*** | ***Special*** | | *User\_id* | *PK,Int* | *Auto-increment* | | *Username* | *VARCHAR* |  | | *Email* | *VARCHAR* |  | | Password | VARCHAR |  | | Bio | Text |  |   **Recipe table**   |  |  |  | | --- | --- | --- | | ***Fields*** | ***Data Type*** | ***Special*** | | *Recipe\_id* | *PK,INT* | *Auto-increment* | | *User\_id* | *PK,INT* | *References users table* | | *Title* | *String* |  | | Ingredient | Text |  | | Instructions | Text |  | | Prep-time | INT |  | | Cuisine\_type | String |  | | Image | String |  |   Comments table   |  |  |  | | --- | --- | --- | | ***Fields*** | ***Data Type*** | ***Special*** | | *Comment\_id* | *PK,INT* | *Auto-increment* | | *Recipe\_id* | *FK,INT* | *References recipes table* | | *User\_id* | *FK,INT* | *References users table* | | Comment\_text | Text |  | | Created\_at | timestamp |  |   Ratings table   |  |  |  | | --- | --- | --- | | ***Fields*** | ***Data Type*** | ***Special*** | | *Rating\_id* | *PK,INT* | *Auto-increment* | | *Recipe\_id* | *FK,INT* | *References recipes table* | | *User\_id* | *FK,INT* | *References users table* | | Rating | INT |  | |  |  |  | |
| 1. **Target Audience**   *Identify the target audience for your proposed web application. This includes demographic information, user interests, and any specific needs or preferences that the application aims to address.*  Cooking Enthusiasts: Those who have a deep passion for cooking and enjoy experimenting with new recipes.  Home cooks: Individuals seeking trustworthy and straightforward recipes suitable for daily meals.  Food bloggers: People eager to share their culinary creations and grow their online presence.  Diet-conscious Individuals: Users in pursuit of diet-specific recipes, such as vegetarian, vegan, or gluten-free options. |