

Requirements for Kaarigar App

Overview

Kaarigar is a social media platform aimed at connecting craftsmen from different regions worldwide. Each craftsman has a portfolio showcasing the projects they've worked on, with each project containing multiple images.

Pin Wall Feature

1. **Dynamic Pin Wall Display:**

- The pin wall is a dynamic feature displaying images from various projects created by craftsmen around the world.
- Images are displayed in sets of five.

2. **User Preference Management:**

- User preferences are determined based on their interactions, such as clicks and likes on images.
- As users interact with the images, their preferences are continuously updated.

3. **Personalized Image Display:**

- The initial set of five images is displayed based on general popularity.
- As the user scrolls down, the next set of five images becomes more tailored to their preferences, based on previous interactions.
- This ensures that the content becomes increasingly relevant and engaging for the user.

4. **Infinite Scroll:**

- The pin wall supports infinite scrolling, where new images load automatically as the user reaches the bottom of the current set.
- Each new set of images should reflect updated user preferences to enhance the user experience.

5. **User Interaction Tracking:**

- Track user interactions such as image clicks and likes.
- Use this data to refine and adjust the algorithm that determines the relevance of images displayed.

6. **User Interface (UI):**

- The pin wall should be visually appealing and easy to navigate.

- Images should be displayed in a grid format, ensuring a clean and organized layout.

Additional Considerations

- **Initial Image Display:**
 - For new users with no interaction history, the pin wall should start by displaying the most popular images to provide a general sense of high-quality work available on the platform.

Task List for Kaarigar App Development

Group Task Breakdown

1. **Requirement Analysis Group**
 - Analyze the overall requirements and clarify any assumptions.
2. **Database Design Group**
 - **Task 1:** Define the entities and relationships for the database schema.
 - **Task 2:** Define detailed table structures, including columns, data types, and indexes.
3. **Frontend Design and Development with Infinite Scroll**
 - Propose a plan for frontend development
4. **Backend Development Group**
 - What backend technologies would you use?
 - How would you manage millions of like requests every second?
 - How should user preference be managed and updated?
5. **Performance and Scalability Group**
 - How will you make the app scalable?