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**Title: Pickify': Real-Time Polling, Task Assignment, and Analytics Platform for Collaborative Decision-Making**

**Abstract:**

Pickify is a web-based application that facilitates real-time decision-making through customizable polls, interactive discussions, and insightful analytics. The platform offers user-friendly interfaces and robust backend functionalities, including secure authentication, live updates, and report generation. It is designed to enhance collaboration for teams, organizations, and social groups.

**Problem Domain**

- **Understanding the Domain:**

Collaborative decision-making often involves multiple inputs, discussions, and iterative processes. Pickify addresses these needs by integrating real-time polling, discussions, and analytical insights in a single platform.

- **Translation into Requirements:**

The platform focuses on:

- Creating and managing polls with real-time updates.
- Encouraging participant engagement through comments.
- Providing data-driven insights with analytics and reporting.

**User Stories**

- **High-Level Epic Requirements:**

- **Epic 1:**

As a user, I want to create and manage polls so that I can gather group input efficiently.

- **Epic 2:**

As a participant, I want to vote in polls and provide feedback so that I can contribute to collaborative decisions.

- **Epic 3:**

As a poll creator, I want to analyze poll results and participation trends so that I can improve future decisions.

- **Detailed User Stories:**

**Poll Creation and Management:**

1. As a user, I want to create polls with customizable options (e.g., anonymous voting, deadlines) so that I can adapt them to specific needs.
2. As a poll creator, I want to edit poll details before they close so that I can correct errors or refine options.
3. As a poll creator, I want to delete polls that are no longer relevant so that I can maintain a clean interface.

**Voting and Engagement:**

1. As a participant, I want to vote on polls and view live results so that I can see group preferences in real time.
2. As a poll creator, I want to enable anonymous voting so that participants feel comfortable sharing honest opinions.
3. As a participant, I want to provide comments on a poll so that I can discuss options and clarify choices.

**Analytics and Reporting:**

1. As a poll creator, I want to generate detailed reports of poll results and participation metrics so that I can share findings with my team.
2. As a user, I want to view visual analytics (e.g., bar charts, pie charts) so that I can easily interpret poll results.

**Functional Requirements**

**Authentication Module**

- Allow users to register securely with encrypted credentials.
- Enable password recovery options.
- Ensure session management to maintain user login states.

**Poll Creation and Management Module**

- Enable users to create polls with titles, descriptions, and options.

- Allow editing of poll settings (e.g., deadlines, anonymous voting).
- Provide unique links for sharing polls with participants.

### **Voting and Real-Time Updates Module**

- Allow participants to cast votes securely and view live results.
- Ensure real-time updates using WebSocket for instant feedback.
- Support manual and automatic poll closures.

### **Comments and Feedback Module**

- Allow participants to add comments to polls in real time.
- Provide moderation tools for poll creators to manage comments.
- Enable anonymous feedback to encourage honest discussions.

### **Analytics and Reporting Module**

- Generate and export poll reports in PDF or CSV formats.
- Create visual analytics for better interpretation of results.
- Log and track user participation metrics.