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<u>Title</u>: Pickify': Real-Time Polling, Task Assignment, and Analytics Platform for Collaborative Decision-Making

<u>Abstract:</u>
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.

<u>Problem Domain</u>

- **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: o Creating and managing polls with real-

  time updates. o Encouraging participant engagement through

  comments. o Providing data-driven insights with analytics and

  reporting.

<u>User Stories</u>

- **High-Level Epic Requirements:** o

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.

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 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.

- Ensure session management to maintain user login states.

Poll Creation and Management Module

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

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.

Comments and Feedback Module

- Allow participants to add comments to polls in real time.

Analytics and Results

- Create visual analytics for better interpretation of results.

- Log and track user participation metrics.

- Provide unique links for sharing polls with participants.