Full-Stack Assignment: Real-Time Poll Rooms

Candidate Instructions

Objective

Build a web app that lets someone create a poll, share it via a link, and collect votes while results update in real time for all viewers. The goal is to deliver a working product. You are free to choose any implementation approach.

Required Features (Success Criteria)

1. Poll creation

- A user must be able to create a poll with a question and at least 2 options.
- After creation, the app must generate a shareable link to that poll.

2. Join by link

- Anyone with the share link must be able to view the poll and vote on one option (single-choice).

3. Real-time results

- When any user votes, all other users viewing that poll must see results update without manually refreshing the page.
- You decide how "real-time" is achieved.

4. Fairness / anti-abuse

- The app must include at least two mechanisms that reduce repeat/abusive voting.
- You decide what threats you're preventing and how to enforce fairness.
- In your notes (see Submission), explain what your two fairness controls are, what they prevent, and any known limitations.

5. Persistence

- Polls and votes must be persisted so that refreshing the page does not lose the poll or votes.
- The share link must still work later (not only for the current session).

6. Deployment

- Share a publicly accessible URL where the app can be used.

Constraints

- Keep it simple.
- You may use any frameworks, libraries, external services, and AI tools.
- Prioritize correctness, stability, and handling of edge cases.

Submission

Share the following in the google form:

- Public URL (of the deployed app)
- Github/code repository URL
- Notes / README (can be in a repo) including:
    - Your two fairness/anti-abuse mechanisms
    - Edge cases you handled
    - Known limitations / what you could improve next