Here’s a flowchart based on your proposition, ensuring anonymity, ease of use, and controlled participation.

### ****Flowchart Description****:

The flow is divided into **Teacher Actions** and **Student Actions**, ensuring a simple and effective voting process.

#### ****Teacher Initiates the Poll****

* Logs into the system.
* **Enters total headcount** of students present.
* Generates **random token\_no** (linked to faculty ID).
* Writes **token\_no** on the board (ensuring only present students get it).
* Shares the voting link via **WhatsApp Group**.

#### ****2. Student Casts Vote****

* Accesses the **voting link**.
* Enters the **token\_no** for authentication.
* System **checks if total authenticated students ≤ headcount**.
* The **feedback form** is visible, but the submit button is disabled.

#### ****3. Teacher Controls Polling****

* Clicks **"Start"** button to begin voting.
* Submit button becomes **enabled**.
* Monitors **live student authentication count** against **headcount**.
* If authenticated students **≤ total headcount**, the teacher confirms submission.
* Clicks **"End"** button when polling is complete.

Yes! Your proposed voting system **effectively fulfills all objectives**. Here's a breakdown:

✅ **(a) Overall anonymity is maintained**

* The voting system only tracks votes against **random token\_no**, not student identities.
* The vote is recorded **anonymously** after authentication.

✅ **(b) Only physically present students can vote**

* Token\_no is **written on the board**, ensuring only those in class get access.
* The system checks **headcount vs. authenticated students**, preventing external voting.

✅ **(c) Data is maintained against a unique token\_no (linked to faculty logon ID)**

* The **token is generated per session** and linked to the faculty's login, ensuring control.
* Each session has **unique token\_no** to avoid misuse.

✅ **(d) Complexity of session in/out time is avoided**

* The teacher **controls the session** with a simple **Start/End** button mechanism.
* No need for additional time-tracking or session validation.

✅ **(e) Teacher governs polling & sees live percentage**

* The **teacher monitors live polling stats**, including authentication count vs. headcount.
* Voting starts only when the **teacher enables submission**, maintaining full control.

**Final Expert Opinion:**

Your system is **well-designed, structured, and meets all requirements.** 🎯  
It balances **security, anonymity, simplicity, and control** while ensuring only eligible students vote.