Collabio Project - Steps Overview

1. Home Page

Users see two big options:

- Create a Session (role: Creator)

- Join a Session (role: Collaborator)

2. Create a Session (Creator)

User enters:

- Nickname

System generates:

- Unique Session ID (e.g., abc123) displayed with a copy button so others can join.

System stores:

- Creator's nickname, role, session ID, and sets session status to active.

User is directed to the Collaboration Page.

3. Join a Session (Collaborator)

User enters:

- Nickname

- Session ID to join.

System:

- Validates session ID.

- Stores collaborator's nickname, role, and session ID.

User is directed to the Collaboration Page.

4. Collaboration Page

For Creator:

- Create new slides

- Draw, write/type, and color (like a simple whiteboard)

- Assign Editor permissions to Collaborators who request it

- Present Mode: Switch slides to fullscreen presentation.

- Sees a list of connected users with their roles and status.

- All slide edits are saved persistently in the database and available to new joiners.

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For Collaborator:

- View slides and the creator's actions in real-time.

- Request permission to become an Editor (Creator grants or denies).

- If granted Editor, can create new slides, draw, write/type, and color on slides.

- Can leave the session and rejoin using the same nickname and session ID.

- Their nickname and edits remain stored for historical integrity.

5. Session & Data Management

- All slides, text blocks, and edits are stored in the database.

- Even if the creator leaves, the session and slides remain stored forever (task requirement).

- Sessions marked as inactive or closed when the creator leaves (users can't join anymore).

- Users have a unique index on nickname (and/or session ID) for fast lookup and no duplicates.

- On leaving, user's active connection is removed but their historical edits remain stored.

6. Database Notes

- Unique Indexes on nickname and session_id.

- All data stored using Doctrine ORM.

7. Present Mode

- A dedicated fullscreen view for showing slides without editing tools, accessible to the Creator and optionally Editors.

Summary of New Integrations

- Added Present Mode for Creator and Editors.

- Slide data stored permanently even if creator leaves.

- Sessions marked as inactive or closed instead of deleting slides.

- Unique Indexes implemented to improve performance.