

# Training Day-14 report

08 July, 2025

Today's work continued on the **collaborative text editor application**, focusing on improving the **editing experience** and **user session persistence**. While not everything went as planned, the day included several important learnings and partial feature improvements.

## Work Undertaken:

- Attempted to implement **text formatting features** such as **bold**, **italic**, etc., to enhance the editing toolbar.
- Investigated issues with **session persistence** after page refresh—specifically the need to keep users logged in and restore document context.
- Implemented logic to **persist JWT tokens** and reinitialize the active document after refresh.
- Enabled functionality to **display the names of previously accessed documents**, leveraging existing fields in the document schema and returning them to the client.

## Challenges Faced:

### 1. Rich Text Formatting Confusion:

- Spent over 5 hours trying to integrate rich text formatting.
- The implementation became increasingly **complex and difficult to manage**, leading to confusing and unstable code.
- Ultimately, decided to **pause** the feature and revisit after deeper research and better planning.

### 2. Token & Session Persistence:

- Faced an issue where users had to **log in again after every refresh**.
- The issue was not with authentication itself, but due to the **token being refreshed too frequently**.
- Applied minor adjustments to persist tokens across sessions more reliably.

### 3. Document History Retrieval:

- Required returning document metadata ( e.g., names of previously worked-on documents) to the frontend.
- This was already accounted for in the schema; I simply needed to expose that information from the backend.

## Key Learnings:

- Learned the importance of **research and planning** before diving into complex features like rich text formatting.
- Improved understanding of **session and token management**, especially in real-time, collaborative environments.
- Gained more experience in **frontend-backend integration**, particularly when returning additional document metadata.

## Conclusion:

Although I wasn't able to complete everything I aimed for today, the challenges offered important insights. I plan to revisit the text formatting feature with more research and possibly use a structured editor framework. Meanwhile, session handling and document history display are now working smoothly.