

Training Day-19 report

15 July, 2025

Today's focus was on resolving the **file upload issue** in the **Book Management System**, improving **frontend integration**, and refining controller logic for a more consistent experience. Several key bugs were identified and fixed after in-depth debugging and testing.

Work Undertaken:

1. File-Upload-Issue-Resolved:

- The root cause of the upload failure was identified as a **duplicate file deletion**.
 - The uploaded file was being cleared both in the **middleware** and again in the **controller**, resulting in **file not found errors**.
 - Resolved the issue by **removing the redundant deletion logic**, allowing the file to persist until properly uploaded.

2. Cloudinary-File-Access-Fix:

- Encountered access issues with **preview and download controllers** due to Cloudinary files being marked **private** by default.
 - This caused permission errors when trying to access files.
 - The problem was resolved after realizing it through AI-assisted debugging; **file access settings were updated** to allow public delivery.

3. Frontend-&-UI-Enhancements:

- Added a **book display card** format to show each uploaded book in a structured layout.
- Connected **update and delete buttons** to their respective backend controllers. Updated the **search controller** by removing duplicate preview logic, since preview is now handled via a dedicated button on the frontend.

Key-Learnings:

- Understood the importance of **avoiding redundant operations** in file handling and middleware.
- Gained insight into **Cloudinary access controls**, and how file visibility settings affect resource.delivery.
- Strengthened knowledge of linking **backend functionality with frontend components**, ensuring seamless user interaction.

Conclusion:

Today's work was a blend of **debugging, refactoring, and feature finalization**. While the upload and access issues took time to resolve, the application is now more stable and user-friendly. The focus moving forward will be on polishing the interface and optimizing usability.