

Training Day-23 report

18 July, 2025

Today's session focused on resolving a **search functionality issue** in the **weather application** and beginning the implementation of a **DOCX to PDF converter** using Node.js. Both tasks involved debugging and research-based problem solving.

Work Undertaken:

1. Weather-App-Search-Bar-Fix:

- Resolved the issue where the **search bar in the navigation bar** worked correctly on the **Home Page** but failed on the **Weather Results Page**.
 - Identified that the search bar component **relies on certain parameters** which were defined on the Home Page but missing on the Weather Page.
 - Added the required props to the Weather Page, and the search feature began working as expected.

2. DOCX->PDF-Converter.Implementation:

- Initiated a new utility project to **convert Word documents to PDF**.
- Researched multiple approaches and discovered that **no JavaScript-only library** reliably performs this conversion without relying on third-party tools.
- Installed and configured a **portable version of LibreOffice**, which is commonly used for such tasks.
- Successfully **connected LibreOffice to the Node.js server**, enabling backend-based file conversion functionality.

Key-Learnings:

- Reinforced the importance of **prop handling** and parameter passing in reusable React components.
- Gained insight into **system-level integration** with Node.js, especially for tasks that rely on native software.
- Understood the limitations of JavaScript in certain domains and how external tools can be incorporated for advanced functionality.

Conclusion:

Today's work resolved a key UI issue in the weather app and established the groundwork for a new DOCX-to-PDF conversion utility. Both projects are progressing steadily, with the converter now ready for further testing and integration.