Training Day-27 report

23 July, 2025

Today's work on the **Polling Application** involved refining backend logic, restructuring the frontend testing interface, and debugging controller-related issues.

Work Undertaken:

1. **Controller Debugging – Poll Creation Flow:**
   • Identified and resolved an issue in the **createPoll controller** where the poll ID was not available at the time of option creation.
   – Initially, null was being assigned as the poll ID in the options document.
   – Refactored the logic to first create the poll, retrieve its _id, and then update the corresponding options with the correct reference.
   • Ensured proper linkage between **Poll** and **Option** documents.

2. **Basic Testing Interface Implemented:**
   • Built a **minimal frontend interface** to:
   – Take input from the user (e.g., poll title, options)
   – Test API and **Socket.IO functionality**
   – Display results dynamically based on server responses

Key Learnings:
• Reinforced the importance of execution order in **asynchronous backend logic**, especially when dealing with document references in MongoDB.
• Improved real-time integration testing through simple, purpose-built components.

Conclusion:
Today's session helped solidify key parts of the application backend and real-time functionality. The basic testing interface is now in place to support further development and verification of features.

Ravjot Singh   CRN-2315191   URN-2302646