| Inventory System for UCC – College of Engineering Library | |
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| **Progress Report No. 2** | |
| **Course Code:** CpE 201L | **Program:** BSCpE |
| **Course Title:** Data Structure and Algorithm | **Date Performed:** 09/13/2025 |
| **Section:** 2A | **Date Submitted:** 09/13/2025 |
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**Materials and Equipment**

- Neobeam
- Github
- Pycharm
- Git
- Browser

**Procedure**

For the implementation of the history log, we will integrate a queue structure into the system to track user actions such as insert, delete, update, and search. The queue will be designed to keep only the five most recent actions in the active history, ensuring quick access to recent activities.

Once the limit is reached, older actions will not be deleted but instead moved into another queue for long-term storage. This allows users to view both the recent and complete history of actions without overloading the main interface. The feature will be tested alongside existing functions to confirm that it records activities accurately and maintains efficiency even with continuous operations.