LEARNING LOG 5

**For the period December 15th to December 20th 2024**

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| **What have I done?**  During the fifth week of my internship, I focused on optimizing the overall performance and interactivity of the Task Management System. I implemented AJAX-based task updates and started working on a task filtering feature to enhance user convenience. (LO3 - UI/UX Design, LO4 - Web Application Functionality).   * I successfully integrated AJAX for realtime task status updates without page reloads, enhancing the responsiveness of the application. (LO3 - JavaScript & Frontend Scripting) * I created a task filtering interface using dropdown menus and conditional queries based on task status and deadlines. (LO2 - Application Design) * I reviewed and documented my previous code, adding detailed inline comments and docstrings to improve maintainability. (LO7 - Time & Project Management) |
| **What I did well**  This week showed a solid consolidation of both new and existing skills.   * Asynchronous Programming: I overcame my earlier challenges with AJAX and achieved real-time functionality. * UI Enhancements: I made the dashboard more user-friendly through filtering and layout improvements. * Code Documentation: I improved the · readability and maintainability of my code by systematically adding comments and explanations. |
| **What I could improve on**  **Goal:** Improve AJAX error handling and optimize database queries for better system performance.   * Frontend: Add Proper error handeling for all ajax request using try-catch block and display meaningful feedback * Backend: Optimize at least two Django models by applying class-based view and using efficient query sets * Integration: implement new feature that require both Django and AJAX call by end of the week   Timing**:** Starting from 23rd, 2025. |