NAU NORTHERN ARIZONA UNIVERSITY

School of Informatics, Computing, and Cyber Systems

Lumberjack Balancing

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Client: Dr. Scot Raab, Associate Dean in CEFNS

Team Mentor: Paul Deasy

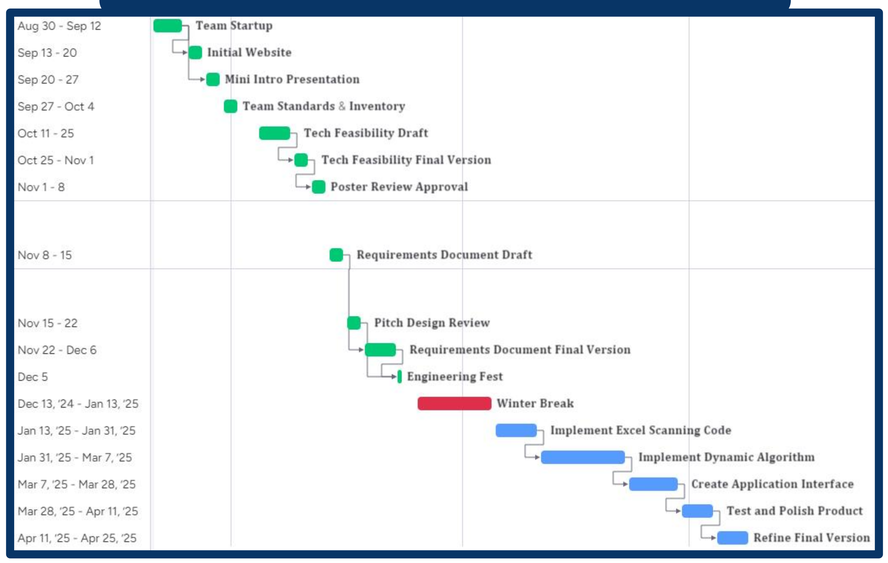
Motivation & Goal

Associate Deans currently perform faculty workload calculations manually, which is time-consuming and prone to errors due to the large volume and complexity of data. Automating this process will allow associate deans to focus on other critical tasks while ensuring reliable and efficient workload management.

Key Features

- **Automated Data Processing:** Streamlines workload calculations by extracting and organizing relevant data from Excel sheets.
- **Dynamic Algorithm:** Customizable workload calculations based on Excel-defined conditions, allowing policy adjustments without code changes.
- **Error-Checking Mechanisms:** Validates data integrity and format to prevent miscalculations.
- **User-Friendly Interface:** Minimalist design for easy navigation, enabling non-technical users to upload files and generate reports effortlessly.
- **Comprehensive Reporting:** Generates detailed, policy-compliant workload assessments for accurate and transparent workload management.

Present & Future Work



Outcomes

This semester's work, including our technical feasibility study and software architecture planning, has prepared us to tackle next semester's challenges. With these foundations in place, and an upcoming tech demo, we're well-positioned for successful system implementation.

Technologies