**Deliverable 1**

**System Vision Document**

**Problem Description**

In universities, teaching assistants (TAs) are essential because they help students, grade assignments, and support professors during lab sessions. However, managing deadlines, keeping track of grading progress, and organising duties are difficulties for many TAs, particularly rookie ones.

Nowadays, the majority of TAs use unofficial resources like emails, spreadsheets, and chat rooms to organise their work. Confusion, irregular grading, missing deadlines, and needless stress are frequently the outcomes of this lack of organisation.

Therefore, it is advised that a new system be created to give TAs a structured, automated platform to effectively handle their academic responsibilities. With the help of this system, instructors and TAs should be able to interact more efficiently, openly monitor progress, and guarantee that all course-related assignments are completed on time.

**System Capabilities**

The new system should be capable of:

* Allowing a secure login and personalized dashboard for each TA
* Automatically generating a weekly to-do list based on the assigned courses’ schedule
* Enabling TAs to display, edit, and mark progress on tasks
* Enabling TAs to enter student grades directly into the system
* Automatically calculating total coursework grades
* Allowing instructors to monitor task completion and grading progress
* Notifying through automatic reminders for upcoming deadlines
* Generating reports Analyzing grading and task completion
* Allowing instructors to manage courses, users, and permissions

**Business Benefits**

The implementation of this new system is expected to offer the institution the following business benefits:

* Enhance organization and time management among TAs through clear task scheduling
* Decrease workload stress and improve productivity, especially for new TAs
* Ensure accuracy and consistency in grading and reporting
* Save time for both TAs and instructors through automation of repetitive processes
* Increase transparency and accountability between instructors and TAs
* Improve the overall quality and reliability of academic support provided to students

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