
DataBase Management System

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Project Description

Automation System: Developing a platform for TA and LD hiring and management, enabling teachers to request assistance directly without academic department involvement.

Request and Application Process: Teachers submit requests, students apply, and the system filters applicants based on academic records, selecting the top candidate.

Attendance and Task Management: Managing TA/LD attendance, assignment checks, and calculating payment amounts.

Problem Statement

In the current academic System, the lack of a centralized system for Teaching Assistants (TAs) and Lab Demonstrators (LDs) leads to inefficiencies in the selection process. Teachers often struggle with ineffective administrative procedures to request TA/LD support, while TAs and LDs find themselves applying without knowing the specific teachers they will assist

Problem Solution

Our solution addresses these challenges by introducing an automation system for TA and LD hiring and management. Through this system, teachers can directly submit requests for TA/LD support, providing clear visibility to prospective TAs and LDs about the specific teachers they will assist.

By Applying the request submission process, administrative burdens on academic departments are significantly reduced. Furthermore, the implementation of standardized selection criteria and automated processes ensures fairness in candidate selection. With modules for request submission, application management, candidate selection, attendance tracking, task management, and payment calculation.

Advantages/Benefits of proposed system

Efficiency: Streamlined process reduces administrative burden on academic departments.

Transparency: Clear selection criteria and automated processes enhance fairness also details of Teachers are present .

Resource Optimization: Effective management of TA/LD tasks ensures optimal utilization of resources.

Scope/List of features

Users: Teachers, students, administrators.

Modules: Request submission, application management, candidate selection, attendance tracking, task management, payment calculation.

Functional Requirements:

Teachers: Submit requests, view applicant profiles, manage TA/LD tasks: no quizzes, Attendance of LD...etc.

Students: Apply for TA/LD positions, view selection status.

Administrators: Oversee the entire process.

System: Amount Integration, Ld/Ta filters

Planning Approach

Requirement Gathering Techniques: Utilized a combination of interviews, questionnaires via google form.

Interviews: Engaged with teachers "sir Bilal" and administrators "Amir rehman" to understand their needs and pain points.

Questionnaires Via Google Form : Distributed surveys to gather feedback on current processes and desired improvements from TA/LD

