

ASSIGNMENT 1: PROJECT IDEAS AND PROPOSED SOLUTION

Project Title

Teaching Assistants Recruitment System

Project Team Members

Saket Shreyas Guda (Team Leader)

Vaishnavi Dasari

Samhitha Reddy Patloori

Shruthi Kamsani

Nithya Pullamolla

Project overview with proposed solution

The main goal of this project is to develop a software application for managing graduate Teaching Assistants in the Department of Computer Science at North University.

The system makes the TA management process easier by receiving the CVs from the applicants. In addition, it also allows the applicant to specify whether they have experience working as a TA at North University. As per the requirement of TAs in particular courses, recommendations are provided by the department staff to the TA committee. Decisions about TA assignments will be made by the TA Committee Members and sent to administrators for implementation. Administrators will reveal the results to TA applicants, and then shortlisted applicants can accept or reject the offer. Further, TA performance is evaluated by the instructor. Administrators and members of the TA committee will use this evaluated data to inform their future TA decisions. In our proposed solution we will make sure that the UI is user-friendly and provides authentication.

Key Challenges

- Application Portal - Online application portals are used by several organizations and businesses, and accessing these platforms can be difficult. Technical faults or complicated interfaces may make it difficult for applicants to create accounts, upload documents, or finish the application forms.
- Compatible Files - When uploading files like transcripts, cover letters, and resumes, problems can arise if the file types are incompatible with the application system. Some portals might accept just a certain type of file or have size restrictions.

- Document Formatting - When uploading documents to an online portal, it might be difficult to maintain consistency in the appearance of the documents (e.g., typefaces, spacing, margins), as the system might not maintain the original formatting.
- Application Tracking - Without the aid of spreadsheets other organizational tools, it can be difficult to keep track of deadlines, applications that have been submitted, and follow-up responsibilities.

Key Technologies to be used

- Jira software
- Visual Studio Code
- Python
- JavaScript/ HTML/ CSS