



Manage STARS Tutoring Group Registration Requests

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Problem:

In the current setup of the STARS Tutoring Group, significant manual effort is required by Dr. P. McDermott-Wells at the beginning of each semester to establish and maintain tutor groups via WhatsApp, a process that includes both the creation of groups and the ongoing approval of up to 150 student registrations per semester. This labor-intensive method not only limits scalability but also detracts from the potential educational focus of the tutoring sessions. With the anticipated increase in demand following the introduction of AI-enhanced tutoring, there is a critical need for a streamlined, automated system that can handle the setup, tutor assignment, and student registration processes more efficiently.

Current System:



Manual
Labor



Requirements:

- Automation of Group Setup
- Tutor Assignment Automation
- Student Registration Automation
- Integration with Microsoft Tools
- Scalability (over 200 students)
- Data Security and Privacy
- End-of-Semester Reporting
- User-Friendly Interface

System Design:

The design of the system for automating STARS Tutoring Group registrations focuses on leveraging Microsoft Power Automate and Power Apps to establish an automated, scalable architecture. Critical workflows will be automated, including the creation of tutoring groups, assignment of tutors, and student registrations, all triggered by predefined events like semester starts or course enrollments. The system will feature a user-friendly application interface for both students and tutors, facilitating easy interactions and self-service capabilities. The design will also accommodate future needs, such as potential integration with AI-enhanced tutoring and a migration from WhatsApp to Microsoft Teams, ensuring flexibility and minimal disruption. This system design is crafted to enhance administrative efficiency and improve user experience.

Implementation:



Summary:

The goal of this project is to automate the setup and management of tutoring groups for the STARS program using Microsoft Power Automate and Power Apps, reducing the manual effort involved significantly. This system will streamline the creation of tutoring groups, assignment of tutors, and student registrations, with triggers set for the beginning of semesters and course enrollments. It features a secure, user-friendly interface that integrates with Microsoft 365 Office Suite and plans for a future transition from WhatsApp to Microsoft Teams. This automation aims to enhance efficiency, ensure data security, and improve the educational support provided to students.

References:

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