



STARS Tutoring Group Management

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Current System

Currently our mentor Dr. Patricia McDermott- Wells spends an extensive amount of time at the beginning of every semester setting up STARS tutoring groups in WhatsApp and adding tutors to appropriate groups. Throughout the semester she approves the registration of students who request access to the STARS tutoring groups pertaining to their current courses. STARS Tutoring currently has over 40 different courses that are being tutored, this all depends on the current capabilities of the tutoring during that semester. This number is expected to increase with the addition of another project being developed at this time.





PROBLEM

The Stars group has been spending a huge amount of time setting up STARS tutoring groups in Whatsapp .

The problem was approving the registration of students who request WhatsApp or Teams tutoring for specific Courses

TASK

Create a manual interaction that can be automated using Power Automate and Power Apps, which constitutes a Low-Code approach to app development.

Key to successfully doing this project is the ability to clearly define the problem components, the applicable constraints and the data flow, along with the appropriate tools to achieve automation



Welcome Page



FIU STARS Tutoring

Welcome Page

Hello, Raekiah Hosin

Please select your option from the menu in the top left corner

<u>Start Semester</u>	<u>Manage Requests</u>	<u>Tutor Survey</u>	<u>End Semester</u>
This page takes you to a list of available courses that are currently being tutored this semester	This page takes you to a list of student requests that are awaiting approval or denial	This page takes you to a form for Tutors to fill out after meeting with students.	This page takes you to a button that allows you to reset the resources for a new semester



Start Semester



FIU STARS Tutoring

Start Semester Page

Hello, Raekiah Hosin

Inactive Courses

- CAP 4770 - Intro to Data Mining
- CEN 3721 - Human-Computer Interaction
- CEN 4010 - Software Engineering 1
- CEN 4021 - Software Engineering 2
- CEN 4072 - Fundamentals of Software Testing
- CGS 1540 - Intro to Database
- CGS 2060 - Intro to Microcomputers
- CGS 2100 - Microcomputer Apps for Business
- CGS 2518 - Computer Data Analysis
- CGS 3767 - Computer Operating Systems

Add >>

Add All >>>

<< Remove

<<< Remove All

Go

Active Courses

- CAP 4104 - HCI for CS
- CAP 4506 - Intro to Game Theory
- CAP 4612 - Intro to Machine Learning
- CAP 4630 - Artificial Intelligence
- CDA 3102 - Computer Design Architecture



Student Request



FIU STARS Tutoring

Student Request Page

Hello, Raekiah Hosin

[Click Here to Complete FIU STARS Student Registration Form](#)

STARS Tutoring Registration

* Required

Student Information

1. **First Name ***

2. **Last Name ***

3. **Panther ID ***

4. **FIU Email ***

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Manage Requests



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Manage Requests Page

Hello, Raekiah Hosin

<u>Date/Time</u>	<u>Name/Email</u>	<u>Course Code/Name</u>	<u>Approve/Deny</u>
4/12/2024	Woodrow Wilson cslay001@fiu.edu	COP 3337 - Computer Programming II	Make Selection
4/12/2024	Woodrow Wilson cslay001@fiu.edu	COP 3835 - Designing Web Pages	Make Selection
4/12/2024	Calvin Coolidge cslay001@fiu.edu	CAP 4104 - Human Computer Interaction	Approve
4/12/2024	Calvin Coolidge cslay001@fiu.edu	CAP 4630 - Artificial Intelligence	Deny
4/12/2024	Calvin Coolidge cslay001@fiu.edu	CGS 2518 - Computer Data Analysis	Make Selection
4/12/2024	Calvin Coolidge cslay001@fiu.edu	CGS 4285 - Appl Networking	Make Selection

Submit

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View Approvals

 FIU STARS Tutoring				View Approvals Page	
				Hello, Raekiah Hosin	
Filter Course All				Course Count: 14	Student Count: 12
PANTHER_ID	FIRST_NAME	LAST_NAME	EMAIL	COURSE	APPROVE_DATE
1000001	George	Washington	cslay001@fiu.edu	CAP 4104 - HCI for CS	4/12/2024
1000001	George	Washington	cslay001@fiu.edu	CAP 4506 - Intro to Game Theory	4/12/2024
1000002	John	Adams	cslay001@fiu.edu	CAP 4104 - HCI for CS	4/12/2024
1000002	John	Adams	cslay001@fiu.edu	CEN 3721 - Human-Computer Interaction	4/12/2024
1000003	Thomas	Jefferson	cslay001@fiu.edu	CAP 4104 - HCI for CS	4/12/2024
1000003	Thomas	Jefferson	cslay001@fiu.edu	CIS 4365 - Enterprise Security	4/12/2024
1000003	Thomas	Jefferson	cslay001@fiu.edu	CIS 4431 - IT Automation	4/12/2024
1000005	James	Monroe	cslay001@fiu.edu	COP 4710 - Database	4/12/2024
1000007	Andrew	Jackson	cslay001@fiu.edu	CAP 4630 - Artificial Intelligence	4/12/2024
1000016	Abraham	Lincoln	cslay001@fiu.edu	CAP 4630 - Artificial Intelligence	4/12/2024
1000016	Abraham	Lincoln	cslay001@fiu.edu	CAP 4104 - Human Computer Interaction	4/12/2024
1000018	Ulysses	Grant	cslay001@fiu.edu	CIS 4731 - Fundamentals of Blockchain Techn...	4/12/2024
1000018	Ulysses	Grant	cslay001@fiu.edu	COP 2210 - Programming I	4/12/2024
1000018	Ulysses	Grant	cslay001@fiu.edu	COP 4710 - Database Management	4/12/2024



View Denials

 FIU STARS Tutoring				View Denials Page	
				Hello, Raekiah Hosin	
Filter Course				Course Count:	Student Count:
All				14	10
PANTHER_ID	FIRST_NAME	LAST_NAME	EMAIL	COURSE	DENY_DATE
626383	Mitchelle	Chinyani	mchus@fiu.edu	CEN 4021 - Software Engineering II	4/12/2024
1000004	James	Madison	cslay001@fiu.edu	COP 4005 - Windows Programming for IT	4/12/2024
1000007	Andrew	Jackson	cslay001@fiu.edu	CAP 4104 - Human Computer Interaction	4/12/2024
1000016	Abraham	Lincoln	cslay001@fiu.edu	CAP 4104 - HCI for CS	4/12/2024
1000018	Ulysses	Grant	cslay001@fiu.edu	COP 4226 - Advanced Windows Programming	4/12/2024
1000020	Grover	Cleveland	cslay001@fiu.edu	CIS 4431 - IT Automation	4/12/2024
1000020	Grover	Cleveland	cslay001@fiu.edu	COP 4604 - Advanced Unix Programming	4/12/2024
1000020	Grover	Cleveland	cslay001@fiu.edu	COP 4813 - Web Application Programming	4/12/2024
1000026	Theodore	Roosevelt	cslay001@fiu.edu	CTS 4348 - Unix Administration	4/12/2024
1000026	Theodore	Roosevelt	cslay001@fiu.edu	CTS 4408 - Database Administration	4/12/2024
1000028	Woodrow	Wilson	cslay001@fiu.edu	CIS 4203 - Digital Forensics	4/13/2024
1000034	Dwight	Eisenhower	cslay001@fiu.edu	COP 2210 - Programming I	4/13/2024
1234567	Raekiah	Hosin	rhosi003@fiu.edu	CAP 4104 - Human Computer Interaction	4/12/2024
1234567	Raekiah	Hosin	rhosi003@fiu.edu	CEN 4010 - Software Engineering I	4/12/2024





Advantages

- The ability to use Power Automate and Power Apps integrated with other Microsoft 365 applications to automate business processes is in great demand in the marketplace. This skill set will give students an enhanced advantage in job recruitment.
- The technology involved include Microsoft Teams portal which allows any possible interactions





Shortcomings

- Admin or Tutor phone contact information incorrect or unavailable
- Admin or Tutor does not have WhatsApp or Teams
- Fully dependent on Microsoft PowerPlatform
- The current system only allows one collaborator at a time to edit the PowerApp
- Due to PowerApps utilizing Excel vs a Database there is an increased latency



Wishlist

- When PowerApps offers new features that apply to the current application the current\future features can be updated as well
- If PowerPlatform goes down what would be a great backup solution (i.e. Whatsapp)
- Improved PowerPlatform to allow more than 1 creator to edit the PowerApp at the same time



Summary

The overall goal of this project is to automate the setup & management for the tutoring groups offered by STARS using Microsoft Power Apps & Automate. With this app we hope to reduce the workload needed to keep the tutoring services running as efficiently and effectively as possible. The team has been working closely with Dr. Patricia McDermott-Wells while developing the app to make sure that we are progressing in the right direction. We hope to enhance the tutoring experience through our app and ensure the admin tasks are less time consuming





Thank you for your attention

We are happy for the opportunity to work in this project and cannot wait to see how far it will go!





Youtube:

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title="YouTube video player" frameborder="0" allow="accelerometer; autoplay;  
clipboard-write; encrypted-media; gyroscope; picture-in-picture; web-share"  
referrerpolicy="strict-origin-when-cross-origin" allowfullscreen></iframe>
```

