



Foundation School of Computing and Information

Spring 2024 Senior Design Project



STARS Tutoring Groups Management

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Mentor: Patricia McDermott-Wells, Florida International University

Instructor/Faculty: Seyedmasoud Sadjadi, Florida International University

PROBLEM

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.

CURRENT SYSTEM



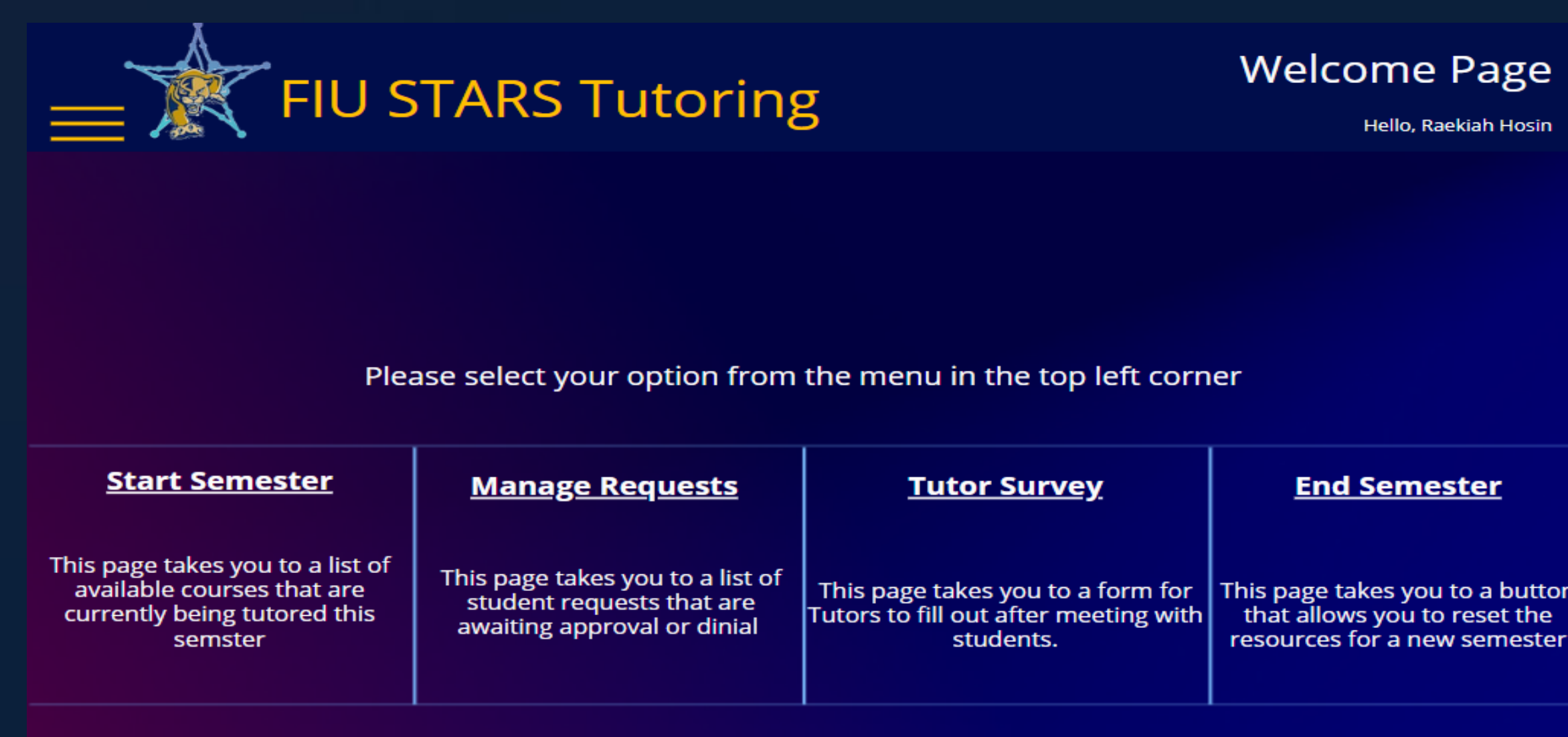
REQUIREMENTS

- Automate the setup of each course's tutoring group in WhatsApp and assign tutors to those courses.
- Provide end-of-semester statistics and reporting, which will require processing the actual tutor chat sessions.
- Design must consider that Microsoft Teams channels will likely replace WhatsApp chat groups in the near future.

INDIVIDUAL CONTRIBUTION

One of my personal contributions to the project is the creation of the Start Semester Page. I was able to create a layout that was both aesthetically pleasing as well as user friendly. On this page there are brief descriptions of what each page that is shown in the hamburger drop down so that way the user knows what they are looking for without having to click through every page. When it came to the overall visual aesthetic of the app, I utilized tools provided by Canva to produce the designs. Another contribution I've had is attending a Microsoft PowerApps workshop alongside my team member Corey Slayton, together we learned all the different features PowerApps has to offer and what can be accomplished within it. Outside of this workshop I did my own personal research on PowerApps using various platforms to gather information that would be beneficial for the team.

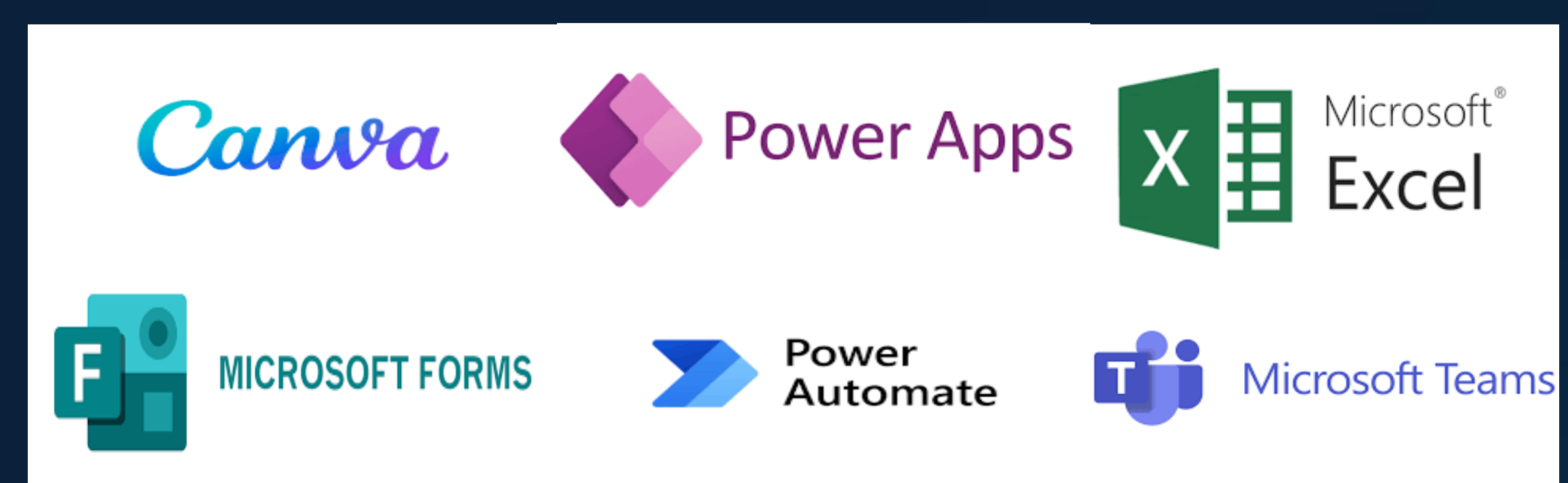
OBJECT DESIGN



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 and I have worked 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.

IMPLEMENTATION



REFERENCES

Microsoft PowerApps Documentation - Link: <https://learn.microsoft.com/en-us/power-apps/>
Microsoft Power Automate Documentation - Link: <https://learn.microsoft.com/en-us/power-automate/>

ACKNOWLEDGEMENT

The material presented in this poster is based upon the work supported by Patricia McDermott-Wells. I thank Patricia McDermott-Wells for her assistance and mentorship that I/we received throughout the senior design project.