

Frontend System for Mycos Plus Web Application

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Abstract

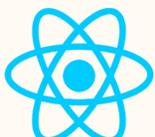
Mycos Plus is a web application designed to foster unity and support among employees. Each employee receives five vote coins per month to show appreciation or encouragement to coworkers who have made a positive impact. These coins can be redeemed for rewards such as extra days off. Employees can also create requests for assistance, allowing coworkers to help and earn vote coins. Additionally, vote coins are used to organize company activities, with administrators able to grant special coins to event participants, promoting engagement within the organization.

The project was divided into four sprints, each lasting three to four weeks, using an Agile methodology. The team used TypeScript, ReactJS, Material UI, and Vite to develop functionality after gathering and analyzing needs from administrators and employees. Figma was used to create wireframes and UI/UX mockups. After deployment on Microsoft Azure, the system was examined for errors, and user feedback was gathered to refine and improve the platform in future sprints.

Technology



TypeScript



ReactJS



Material UI



Vite



Figma



Microsoft Azure

Conclusion

Mycos Plus is developed using ReactJS, TypeScript, and Material UI for the client-side, with server-side integration using .NET Framework and SQL Server for data management. The system utilizes JWT Authentication and defines access rights based on user roles. It supports voting, redeeming reward coins, and creating activities for employees to participate in and distribute rewards. Admin users can manage reward coins, voting rules, and view an overview of the entire system's usage.

Reference

1. Geeks for Geeks. (2024). What is Agile Methodology?. Available at: URL : <https://www.geeksforgeeks.org/what-is-agile-methodology/>
2. Atlassian. (2024). What is scrum and how to get started?. Available at: URL : <https://www.atlassian.com/agile/scrum>

Introduction

Due to the efficient work of Mycos Technologies Co., Ltd., there are many customers who are interested in working with it. Therefore, most employees in the company have quite a lot of accumulated workload. As a result, the interaction between employees is reduced. Most of the assigned tasks are related to creating web applications that help solve such problems and promote relationships within the company. Using RESTful API connected to the database to retrieve various types of data to display at Front End.

Methodology

The project was completed in 4 sprints, each lasting 3 to 4 weeks, using an Agile methodology with Scrum framework.



Planning: The team project gathered and analyzed the requirements of employees and admins to plan the workflow.



Design: Created wireframes and UI/UX mockups in Figma to align with the requirements and preferences.



Developments: Implemented features separately across 4 sprints, with each lasting 3-4 weeks. Frontend development was done using TypeScript, ReactJS, Material UI, and Vite.



Testing: Tested and checked the website for any potential bugs, errors, or issues that could affect the user experience.



Deployment: Deployed the website on Microsoft Azure and made accessible for employees and admins.



User Review: Collected suggestions and recommendations from employees and admins to improve the website in the upcoming sprint.