MYCOS PLUS

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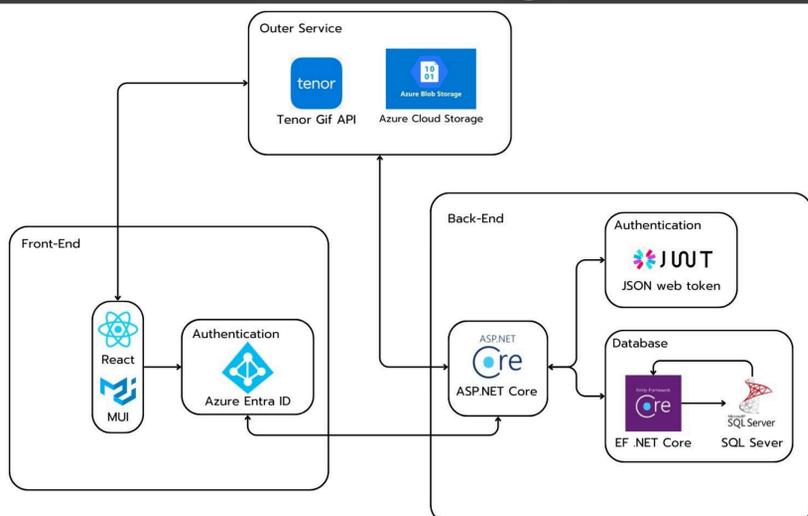
Company: Mycos Technologies Co., Ltd.

Introduction

Due to efficient and effective operations, many clients are interested in collaborating with the company. As a result, employees within the company inevitably accumulate a large workload, leading to reduced interactions among them. The assigned tasks primarily involve developing a web application designed to address these issues and enhance workplace relationships. The application will integrate with a RESTful API that connects to a database to retrieve various types of data for display on the front end.
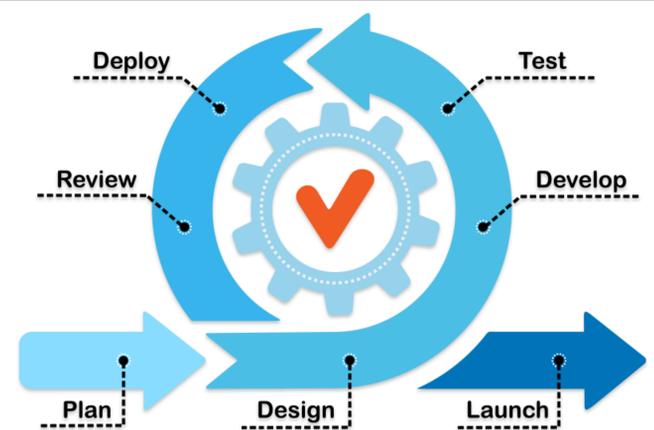
Abstract

Mycos Plus is designed to foster unity and support among employees. These coins can be used to vote and show appreciation or encouragement to coworkers. Each month, employees receive new vote coins, which can be redeemed for various rewards. Additionally, they can create a request for assistance on various matters, allowing coworkers to help and be awarded vote coins based on their contributions. Another key feature of the system is using vote coins for organizing company activities. System administrators also can grant special coins to event participants without limitation, fostering a sense of engagement and enjoyment within the organization. For my part, I was responsible for the full-stack development of the system, focusing on the admin page. My key responsibilities included developing and managing the Coin Setting Page, Vote Rule Setting Page, Inventory Setting Page, Reward Setting Page, Give Away Function, and All History Redemption Page sections. Additionally, I handled the Event Board, Request Board, Redeem Page, and Redeem History Page for the client.
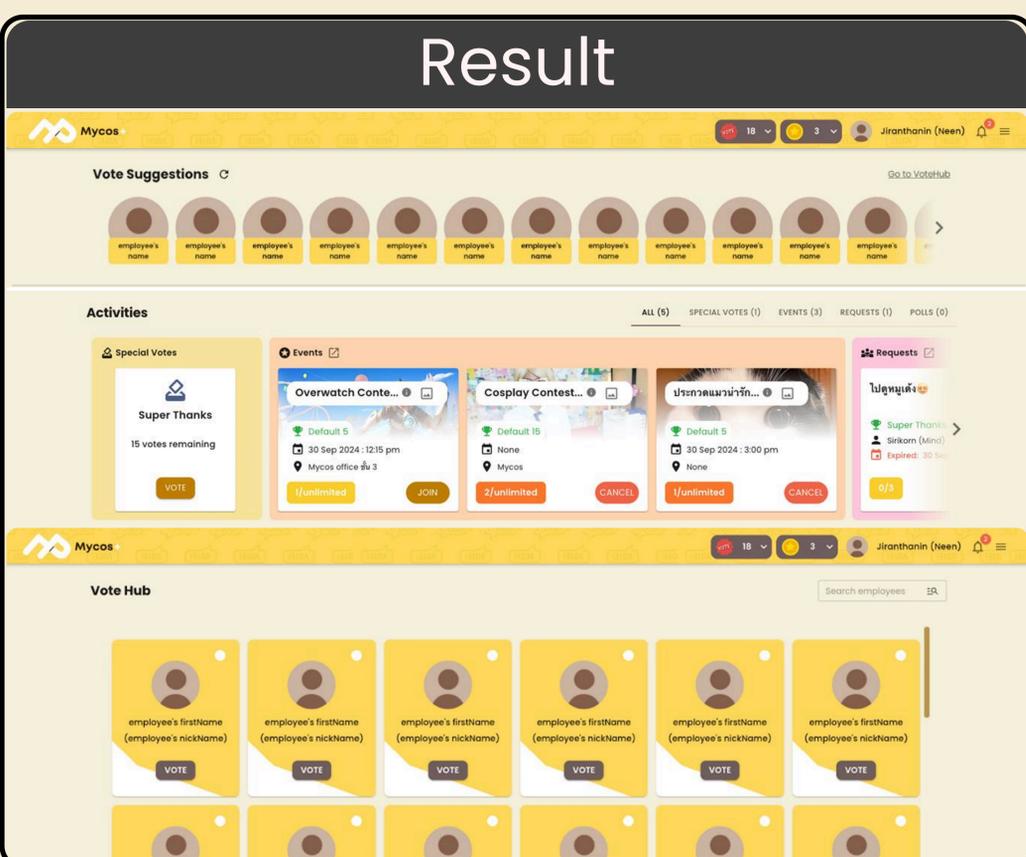
Technology

Methodology

Result

Conclusion

The Mycos Plus system has been developed using the ReactJS framework, along with TypeScript and Material UI for building the client-side user interface. Additional technologies have been integrated to ensure efficiency and responsiveness to user needs.

The system connects to a server-side backend, built with .NET Framework and SQL Server database, which handles data retrieval, updates, deletions, and submissions. Security is enforced through JWT authentication, along with role-based access control (RBAC) to ensure that each user can only access features and data according to their designated roles and responsibilities.