

# Team Reflection

by Zhihan Xu

## Personal Contribution

- Utilized AWS resources to help deploy and monitor the service.
- Writing lambda functions with IaC solution for infrastructure setup and management by using AWS SDK

## Area for improvement

- Consolidate the functionality of these three Lambda functions into a single Lambda function as they share similar features.
- Implement password hashing before storing the password field in DynamoDB to enhance security.
- Should improve efficiency in DynamoDB by replacing the use of the "Scan" method with the more efficient "Query" method for performing the desired job.

## Evaluation on Teamwork

	Hugo Hu	Yilin Yang	Eric Yin
Positive 1	Lead the initiative code implementation	Good at developing with AWS CDK and setting up AWS credentials	Enhanced the visual appeal of the login and register page by incorporating a well-designed UI framework.
Positive 2	Produce robust code and provide insightful views	Did a good job in quantitative analysis for latency and other metrics	Added a toggle feature to enable users to switch between dark and light modes in the application's interface.
Positive 3	Excellent in using AWS	Good load test	Enhanced the user experience by providing detailed error messages
Improvement 1	Code documentation could be better	Load test could be on a larger scale	Dynamic JavaScript files are placed in the html file. It's better to separate them in single css and js files

Improvement 2	the code can be more effective	Have more sophisticated CI/CD for CDK	The user interface can be further refined to achieve a more elegant and visually appealing design.
Improvement 3	The design and functionality of the user interface could be improved	Loadtest can be done more efficiently	Code quality could be better

## Conclusion

Throughout this project, we have gained valuable insights and lessons about teamwork, which include:

- **Clear Communication:** Effective communication is crucial for a successful team. It is important to establish open channels of communication, actively share information, and ensure everyone is on the same page regarding project goals, progress, and challenges.
- **Collaboration and Cooperation:** Encouraging collaboration among team members fosters innovation and promotes a sense of ownership in the project. By working together, leveraging individual strengths, and sharing knowledge, we can achieve better outcomes.
- **Defined Roles and Responsibilities:** Clearly defining roles and responsibilities within the team helps in avoiding confusion and duplication of efforts. It ensures that each team member understands their tasks and contributes to the project's success.