**INDIVIDUAL ROLE DOCUMENT**

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***Problem Statement:***

The organization requires an internal chat platform that is secure, user-friendly, and efficient, enabling real-time messaging and collaboration among employees. The platform should support private messaging, broadcasting messages to all users, and automated email notifications for new user additions. The current communication system lacks effectiveness, resulting in delays in information sharing, missed collaboration opportunities, and a lack of transparency. To address these challenges and ensure data security, the organization seeks to develop a comprehensive chat platform owned and controlled internally, utilizing a cloud-based database for secure message storage.

***Contribution:***

I have successfully integrated Simple Queue Service (SQS) as a buffer for incoming messages and implemented a Lambda function that fetches and stores these messages from SQS to the chats DynamoDB table. This integration ensures secure and scalable internal communication with real-time messaging capabilities, leveraging SQS to decouple message processing from the sender and receiver.