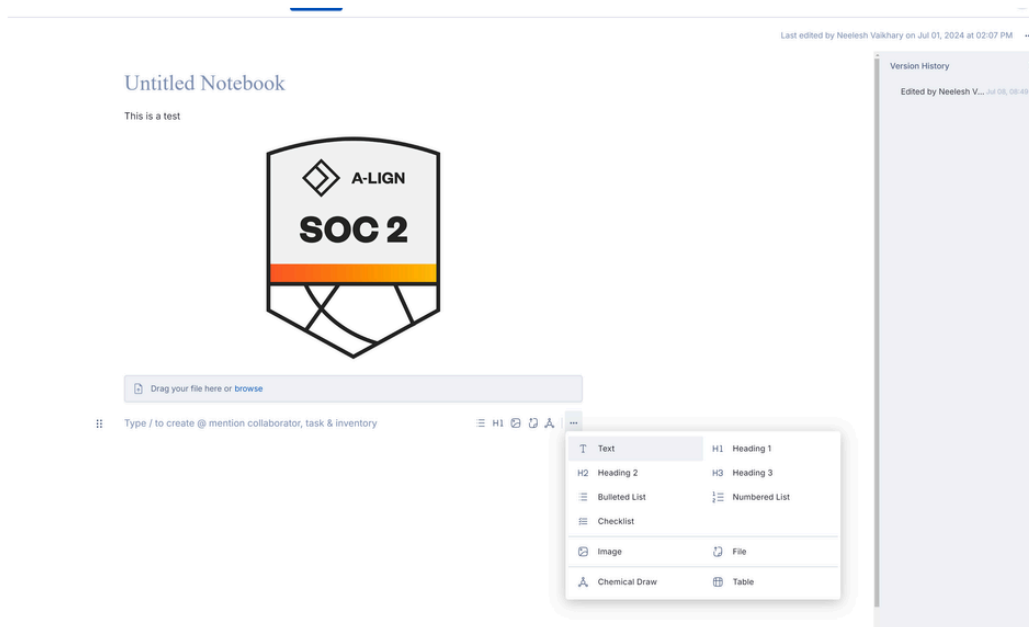# Case Study

## Abstract

Albert Notebook enables users to create free-flow content using various notebook components, including text, images, chemical drawings, mentions, and files, with plans to support Albert entities in the future. The notebook also supports content reordering and maintains a version history.

## Exercise (45 Mins)

Design a backend for the Notebook (API and database schema) to implement the specified functionality. Utilize OpenAPI 3.0 to define all REST endpoints. Use DynamoDB with a single table design to store and retrieve transactional data. The API should be optimized for patching the notebook, retrieving version history, and reordering notebook content.