

# CSE546 - Project 2 Individual Report

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## Tasks:

1. **Testing and Evaluation Responsibilities:** Conducted testing, evaluation, and debugging tasks as necessary to ensure the core functionality of the system.
2. **Lambda Trigger Configuration:** Configured the Lambda trigger on the S3 bucket to enable automatic execution of the Lambda function when new files are received.
3. **Lambda Function Testing:** Utilized a workload generator to test the Lambda function's performance and reliability under simulated real-world scenarios.
4. **Output CSV Verification:** Verified the accuracy of the output CSV files and assessed the processing times to ensure all requests were completed within a reasonable timeframe.
5. **Issue Identification and Resolution:** Identified and resolved various issues during testing, such as architecture mismatch and permission issues, to ensure optimal system performance.
6. **Solution Refinement:** Further refined the solution to optimize the system's performance and ensure efficient processing and analysis of input data.
7. **Contributions to Project Success:** Diligently executed each task to ensure a robust and efficient system for processing and analyzing input data, contributing to the overall success of the project.

## Major Learnings:

1. Understood IAM, S3, and Lambda, in-depth.
2. Use of ffmpeg to process video frames.
3. Use of AWS Console and CLI for working with DynamoDB.
4. Use of AWS SDK for Python application development.
5. Working efficiently both independently and as a team.