# TASK 1

# High-Level Architecture:

* Use **AWS Glue** as a data integration service that can connect to our main\_system and extract, transform, and load (ETL) data to various destinations. AWS Glue can handle different data formats, structures, and sources, and provide a unified view of your data for analytics and machine learning. AWS Glue is scalable, reliable, and cost-effective, as it uses serverless architecture and pay-as-you-go pricing. AWS Glue also provides a graphical interface and a development endpoint for ease of maintenance and operation

**Partners With APIs:**

* For the partners that have APIs, we can use AWS Lambda as a serverless function that can invoke the partner APIs and send data to them. AWS Lambda can be triggered by AWS Glue events, such as when a new batch of data is ready to be delivered. AWS Lambda is also scalable, reliable, and cost-effective, as it only runs when needed and charges per execution. AWS Lambda supports multiple programming languages and frameworks, and integrates with other AWS services for monitoring and logging.

**Partners Without APIs:**

* For the partners that do not have APIs, we can use Amazon API Gateway as a service that can create and manage APIs for our data. Amazon API Gateway can expose our data as RESTful or WebSocket APIs, and handle authentication, authorization, throttling, caching, and versioning. Amazon API Gateway can also integrate with AWS Lambda and AWS Glue to provide a seamless data delivery experience. Amazon API Gateway is also scalable, reliable, and cost-effective, as it supports up to 10,000 concurrent requests per second and charges per API call.