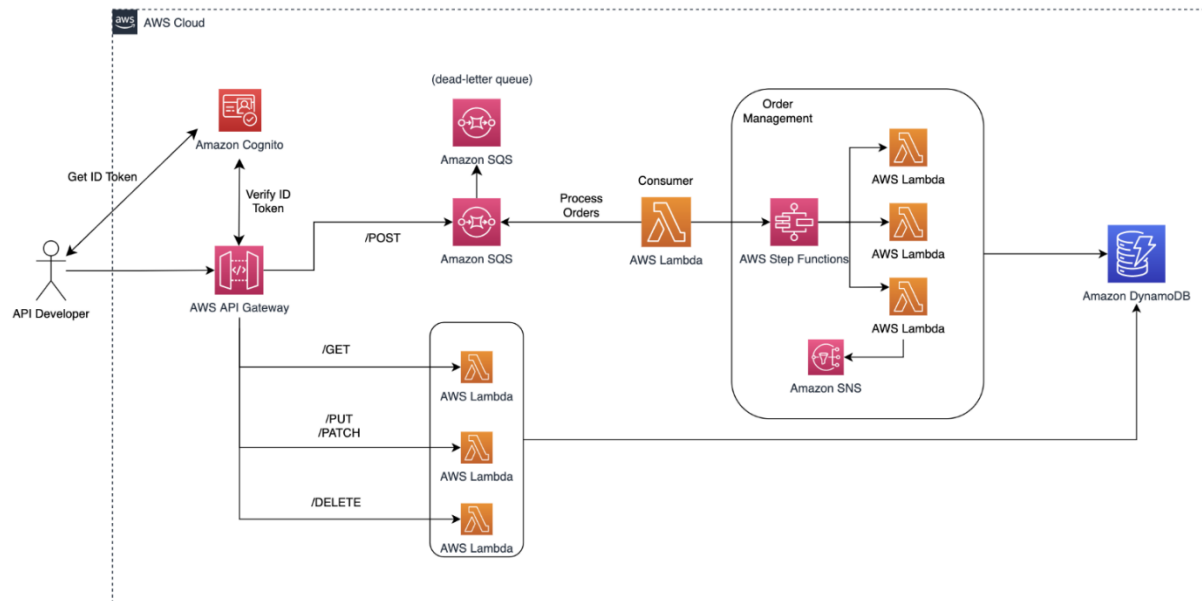The Project is aimed at building a Secure Serverless Applications at Scale on AWS. Food ordering and management is considered, where the primary stakeholders are the users, restaurants and those involved in managing and processing the orders.

The system's overall architecture is depicted below:



The project was developed in 5 modules:

- **Module 1 - Serverless CRUD API**: Creation of a synchronous REST API with all CRUD operations by using API Gateway, Lambda and DynamoDB
- **Module 2 - Order Poller**: Convert the POST method to an asynchronous model with SQS and Lambda Poller
- **Module 3 - Order Management**: Adding step functions to orchestrate POST operations with additional Lambda functions.
- **Module 4 - Order Authentication**: Adding authentication mechanism to your API Gateway, then it will only allow authenticated users to access API
- **Module 5 - Real-time Menu Management:** Creation of a CI/CD pipeline to manage a menu in real-time.