

# **Integrating New CDD Software into Existing Bank Systems** Arthur Fan Advised by Profess Desmond Choi

## Introduction

- A bank is digitizing its Customer Due Diligence procedure.
- The bank purchased GoAML

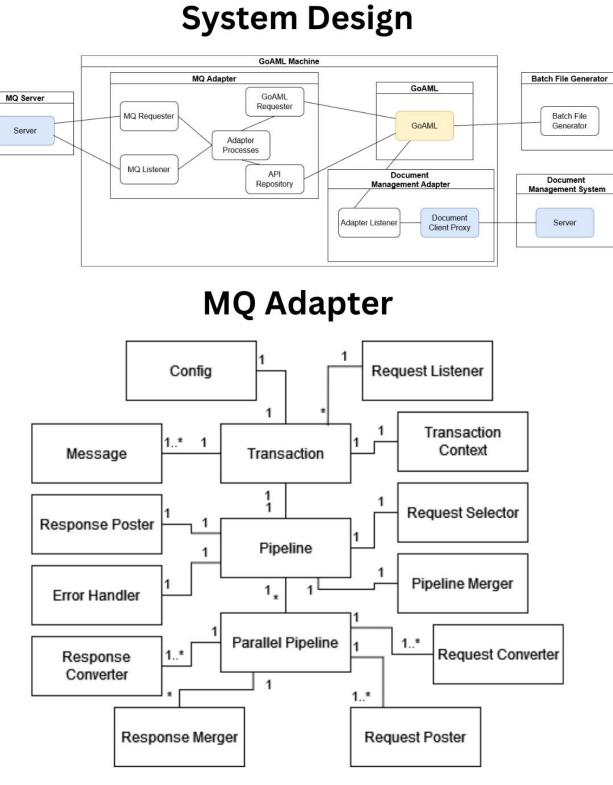
### System Designs

System	GoAML	Bank
Launguage	C#	Java
Communication	HTTP	IBM MQ
Message Format	Json	XML

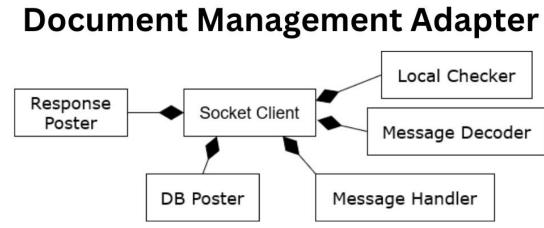
An adapter is needed

#### Tasks to Complete

- Communicate with real time MQ system
  - Get newest customer data
  - Post CDD result to other systems
  - Allow creation of new case
  - Update customer number
  - Authorize user access
- Upload document to server
- Generate and upload batch file

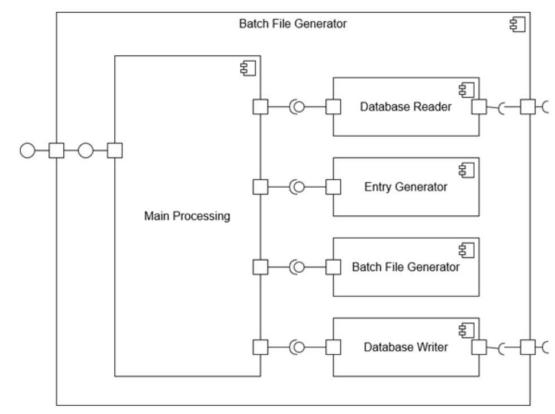


• Request Listener: Flask for API, pymqi for MQ server • Converter: Parse as dictionary, generate output • Request Poster: Post request, wait for response • Merger: check for fail, merge the result • Error Handler: Log Error and generate response



- Socket Client: Netty package
- Local Checker: Check if message is from same machine
- Decoder: Convert byte to string
- Handler: Send upload command
- DB Poster: Log result to DB
- Response Poster: Send result to GoAML

### **Batch File Generator**



- Main Processing: Call other Components
- Database Reader: Read entries in database
- Entry Generator: Generate batch file entries
- Batch File Generator: Write the batch file
- Database Writer: Update the database

