**Technical details:**

1. File upload API(/) – Exposed via API Gateway backed up by **ProcessFileWithRulesEngine** Lambda function
2. **ProcessFileWithRulesEngine** - Transforms CSV to JSON and invokes remote rules engine
3. Remote Rules Engine supporting – **RemoteRulesEngine** lambda function:
   1. Remote (mock ODM style via another Lambda)
   2. Apply rules
4. Log results – Persist to tmp file
5. Returns result in JSON format

**Design:**

Diagram

Description automatically generated

Below is the developed endpoint along with detailed screenshots showcasing all associated resources and the API response.

**URL**: <https://hjje5kemni.execute-api.us-east-1.amazonaws.com/dev/>

**Method**: POST

**Sample cURL request:**

curl --location 'https://hjje5kemni.execute-api.us-east-1.amazonaws.com/dev/' --header 'Content-Type: text/csv' --form 'file=@"/C:/\*\*\*\*/provider\_sample.csv"'

Graphical user interface, text, application

Description automatically generated

Graphical user interface, application

Description automatically generated

Graphical user interface, text, application

Description automatically generated

Graphical user interface, text, application

Description automatically generated

**Possible enhancements:**

1. Business rules can be loaded dynamically
2. Output response can be stored in DynamoDB
3. Configuration details can be made configurable through parameter