With this in mind, please provide:

• How to name the API

• Type of HTTP verbs to be used in each scenario

• How to version API when there is a breaking change?

• Design pattern of API

• How should the JSON request and response look like?

• How the API should react when there is a validation error or system error?

• What happen when the core system is offline?

**• How to name the API: OAuth we can use if we have authentication**

Experience API:

**Issuance SAPI**

Product papi

Quotation EAPI

Async MQ DLQ

 filter and push operations anypoint MQ

Filter push updates

Process Api

System api

Underlying backend systems like CRM connected

* **Type of HTTP verbs to be used in each scenario** :

POST --- /V1/PURCHASE/POLICYS/{POLICY ID} TO SUBMIT DATA OF POLICY ID

PUT --- /V1/PURCHASE/POLICYS/POLICY ID} TO UPDATE THE DETAILS

GET --- /V1/ORDERS/{ORDER ID} 🡪 STATUS LIKE APPORVED,REJECTED,IN PROGRESS etc.

GET -- /V1/QUOTATIONS/ TO GET QUOTATIONS TO APPLY

WHY I HAVE KEPT PAPI IN FUTHURE IF ANY OTHER VENDORS WANTS TO UTILIZE THE API WE CAN ROUTE TO PAPI.

**How to version API when there is a breaking change? :**

RAML 🡪 version --🡪 v1 ,v2 we can use both in api by port 8081,8082 and version routing.

V2

V1

Path = /v1/\* path= /v2/\*

**• How should the JSON request and response look like :**

REQUEST BODY:

{

"INSURER DETAILS": {

Firstname: “ ”,

Lastname: “ ”

DOB: “ ”

Email: “ ”

“Travel details “: {

Destination: “ ”

Departure Date: “ ”

Return Date: “ ”

}

}

}

Get:

{“ID”:” 12345“ ,”AGE”: “45”,”GENDER”: “ “}

“PLANS”:[{“PLAN A”: “ “ ,{“PLAN B” : “P” }

ONCE SUBMITTED WE CAN SEND RESPONSE AS

{ “INFORMATION” : “POLICY AS SUBMITTED SUCCESSFULLY”} WITH 201 RESPONSE CODE.

WE CAN ADD RAML BASED ON THE REQUIREMENT FOR NOW I HAVE ADDED ABOVE VERBS.

DESIGN PATTERNS:

ASYNC PATTERN WE CAN USE DUE TO 2 MIN WAIT RESPONSE

**How the API should react when there is a validation error or system error?**

**Acknowledge 🡪 infight mode -> proceed 🡪 DLQ**

**Not acknowledge 🡪 infight mode -> back to Queue**

**Circuit breaker will be configured on the anypoint mq listener to open the circuit when there is a issue like connectivity message will be in queue.**

any error like error type 🡪 continuous

error type to 🡪 auntin

error type 🡪 timeout

error threshold -🡪 2,3,5