# Coding assessment Requirement

## Write a POST API to persist below request to MongoDB Database.

{

"profile": {

"mobileNumber": "0998778943",

"customerId": "PAql04R1FDeh0Q4FtPi3ug=="

},

"journeyInfo": {

"journeyId": "8f14a65f-3032-42c8-a196-1cf66d11b930",

"journeyName": "LoanJourney1",

"journeyState": [

{

"action": "CUSTOMER\_ONBOARDING\_STARTED",

"journeyStateId": "aaa1234",

"formData": {

"dateTime": "21421414",

"disbursementMode": "CHEQUE",

"interestRate": "12",

"minimumProcessingFee": "22421",

"plan": "ABCD",

"tenure": "10"

},

"timeinfo": "123456"

}

]

}

}

* customerId is unique
* journeyInfo.journeyId is unique
* journeyStateId is unique

## Add the dynamic schema validation functionality on the input payload either with Swagger or Joi or with any other suitable framework. Below is the requirement.

* mobileNumber and customerId is mandatory
* Mobile number validation - 10 digit mobile number starting with digits 6,7,8,9
* journeyInfo.journeyId, journeyInfo .journeyName is mandatory
* journeyState.action can have two values CUSTOMER\_ONBOARDING\_STARTED and CUSTOMER\_ONBOARDING\_COMPLETE
* if journeyState.action is CUSTOMER\_ONBOARDING\_STARTED, below fields are mandatory
  + formData.dateTime, formData.disbursementMode, formData.plan
* if journeyState.action is CUSTOMER\_ONBOARDING\_COMPLETE all the formData fields are mandatory

## Implement a circuit breaker framework for inserting the record to mongoDB.

For example, if for any reason, MongoDB goes down or experiencing latency system should fail early and as a fall back mechanism write the incoming record to a file(path configurable) and make circuit breaker parameters also configurable.

Refer Below links

<https://www.npmjs.com/package/@bennadel/circuit-breaker>

https://www.npmjs.com/package/opossum

## Design MondoDB collection. Please keep optimized performance while defining collection and indexes.

## Develop GET API to fetch the record by passing CustomerId

## Implement adequate logging (info,debug,error) with log level and log path and rotation configurable. Packages like Winston can be used.

Please share github link for the project with installation instructions documented.