**UHO**

United Health Organization

**Integration Technical Design Document**

**uhub-sapi technical design**

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| --- | --- | --- |
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| **Prepared By:** | Chinna Reddy |
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| *Architecture Reviewer* | *TBD* |
| *PM* | *TBD* |

**Approvals**

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| --- | --- | --- | --- |
| **Interface ID** | **Interface Name** | **Approval Given On** | **Approver(s)** |
| **1** | **fetch-covid-reports** | **TBD** | **TBD** |
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# Introduction

## Document Overview

### Intended Audience

This document is intended to be used by the integration developers, Integration support team, architects, and testers who will be designing, implementing, and maintaining these middleware services. This document is not intended to be used by the API consumers; API documentation is provided on the Anypoint platform.

### Structure

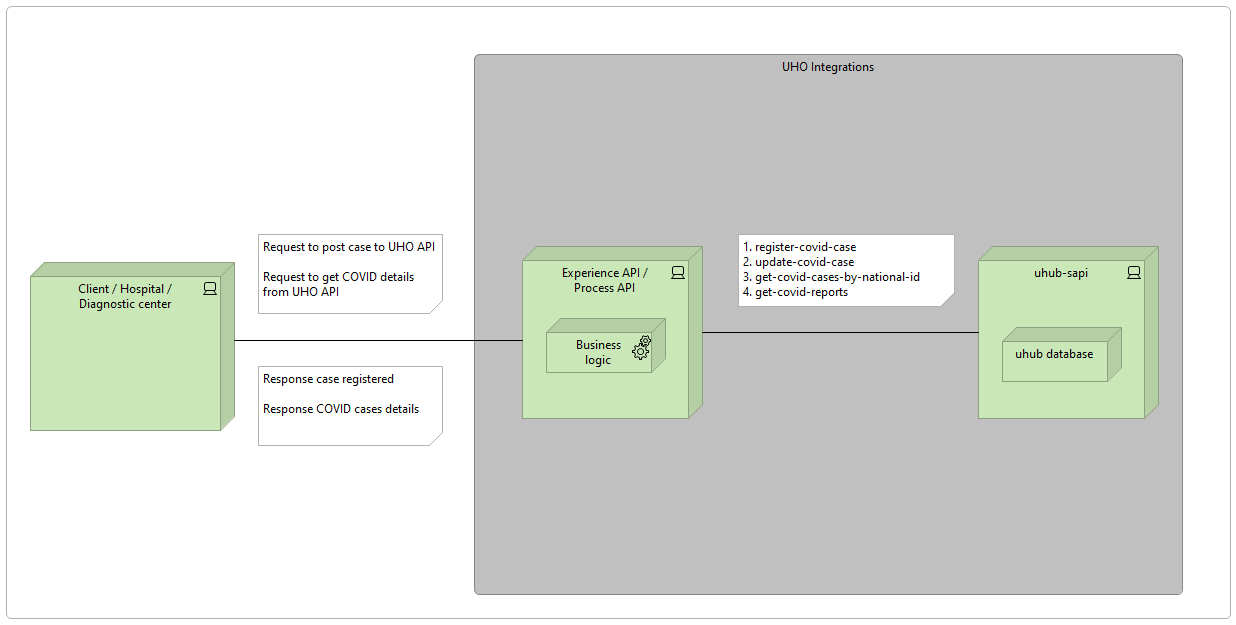
This document contains an overview and depiction of all the services. Document includes detailed designs for each service, including intended API consumers, business rules, technical considerations, and result codes.

### Related Documents

The following list provides links to related documents:

|  |  |  |
| --- | --- | --- |
| Document | Intended Use | Share point Link |
| Solution Architecture Document |  |  |
| Data Mapping document |  |  |

# Technical Architecture

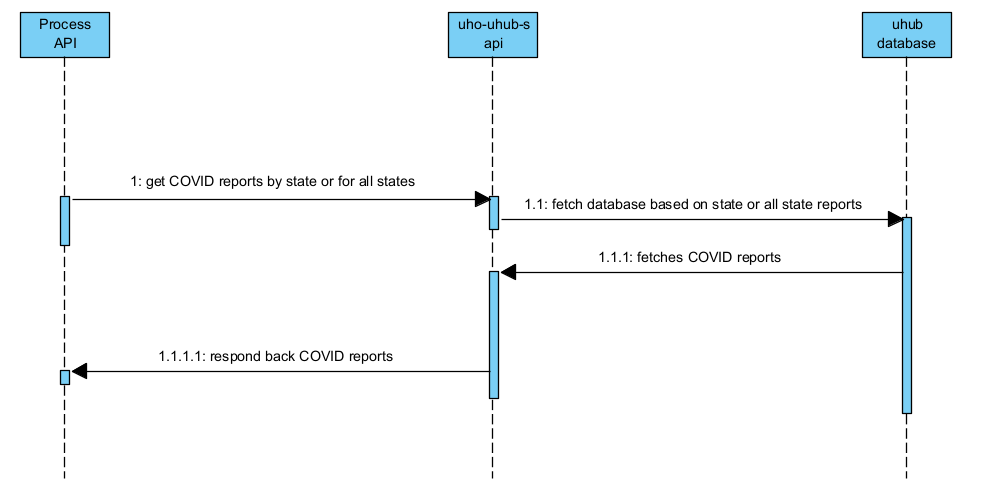


1. Process API or experience API calls uhub-sapi get-covid-case-by-national-id service to check covid case exist already.
2. If case doesn’t exist then process API calls register-covid-case to add case database.
3. If the case already exist then calls update-covid-case to update the case.
4. The process API or experience API calls get-covid-reports service to get covid report by state or for all states.

# Services/APIs High level Specification

## fetch-covid-reports : https://uho-{env}-covid-eapi/covid/v1/reports?state=texas

This is a GET based API used to respond COVID case reports by state wise. If state query provided then responds back particular state reports otherwise responds back all states reports. On success API responds back 200, SUCCESS with covid reports payload. On failure the API will respond back corresponding error code and message along with description.



1. The client consumes covid-eapi
   1. The covid-epai consumes uhub-sapi to get covid reports
      1. The uhub-sapi responds back covid reports to client
         1. The experience API responds back covid reports to client.

### Input and Output Definitions of API

**Input:** https://uho-{env}-covid-eapi/v1/covid/reports?state=texas

**Output: 200, OK**

[

   {

      "state":"texas",

      "report":{

         "total":"46744",

         "positive":"436744",

         "recovered":"433744",

         "death":"300",

         "vaccinated":"7847848"

      }

   }

]

**Input:** https://uho-{env}-covid-eapi/v1/reports

**Output: 200, OK**

[

   {

      "state":"texas",

      "report":{

         "total":"46744",

         "positive":"436744",

         "recovered":"433744",

         "death":"300",

         "vaccinated":"878484"

      }

   },

   {

      "state":"florida",

      "report":{

         "total":"46744",

         "positive":"436744",

         "recovered":"433744",

         "death":"300",

         "vaccinated":"7847848"

      }

   }

]

### Mapping



### End system details

**ehub-sapi:**

### Consumers

|  |  |  |
| --- | --- | --- |
| API Consumer | Description | |
| Client appliucations | | Client applications consumes covid-eapi services to get COVID reports. |
| Other UHO applications | | UHO applications can consume covid-eapi services to get COVID reports.. |

### Technical details

|  |  |
| --- | --- |
| API Name | uhub-sapi |
| Business Requirements | As mentioned in integration solution document |
| API Communication Type | REST |
| Interface Pattern | Request/Reply |
| Interface Definitions | RAML API Specification |
| Sample Request | JSON(Section 2.1.1.2) |
| Sample Response | JSON(Section 2.1.1.2) |

### Non Functional

|  |  |
| --- | --- |
| Post Execution Notification Details | Data-Related Failures Handling:  Currently all the errors will be logged into logs with log4j.  Consumer API is responsible to log about error details.  Can be visible in runtime manager.  Technical Errors Handling:  Currently all the errors will be logged into logs with log4j.  Consumer API is responsible to log about error details.  Can be visible in runtime manager. |
| Process Log Audit Details | Audit & Logging:  Created Logs for the following   * Request message at entry point * Request message at system call entry point * Request message at system call entry point * Request completed |

### Error Handling

|  |  |  |
| --- | --- | --- |
| No. | Type of Exception | Exception Handling |
| 1 | Any technical issue | * API shall respond corresponding response message. * API will record the error in logs. * Runtime manager notifications will be configured - TBD * Application Administrative team will be notified using an email notification service- TBD |

### Integration test cases

| **Description** | **Result** |
| --- | --- |
| Successful cases | 200 - Success |
| System connectivity failure (Database is down) | 503 - The (upstream) service is temporarily not available |
| Internal server error | 500 – Internal server error |
| API Kit Router errors | Global errors |

### API Endpoint Details

| **Requirement** | **Method** | **Details** |
| --- | --- | --- |
| **Development** | GET | <https://uho-dev-uhub-sapi/covid/v1/>reports |
| **Test** | GET | <https://uho-test-uhub-sapi/covid/v1/>reports |
| **UAT** | GET | <https://uho-uat-uhub-sapi/covid/v1/>cases/reports |
| **Production** | GET | <https://uho-prod-uhub-sapi/covid/v1/>cases/reports |

# API Policies, Access and Network Security - TBD

|  |
| --- |
| Define API policies to be configured / customized |

| **Requirement** | **Details** |
| --- | --- |
| Access to APIs - Authentication | client\_id enforcement |
| API Policy | CORS should be enabled |
| Communication over API’s | x-transaction-id |

# Open Issues

|  |  |
| --- | --- |
| **No** | **Open Issues** |
| 1.0 |  |
|  |  |

# Appendix A – Interface details

WSDLs

Exported RAMLs

Tables outlining data design