**Mental Health Checkup System Design Document (SDD) Addendum v1.x**

# Mobile Application System Design Document (SDD) Addendum v1.x

The Mental Health Checkup app is a web/mobile-based application using principles of Responsive Design, it renders effectively in tablet and phone browsers as well. The application uses Spring Data and Weblogic / Vistalink for middleware and backend service/database connectivity and is considered a high-risk application under the scope and security boundary of the Mobile Application Environment (MAE).

The MH Checkup App supports the implementation of measurement-based care for Veterans with mental health conditions. Measurement-based care entails administration of standardized self-report assessment instruments that evaluate an individual's level of symptoms and distress associated with a specific diagnosis or condition. For instance, the Patient Health Questionnaire (PHQ-9) is used to measure symptoms related to depression. A mobile solution enables Veterans to complete assessments on a regular basis, without having to use clinic visit time and clinician resources to administer the tests or enter the data. The test administration results will be available in real time for feedback to the patient, text and graphical information for the clinician at the time of visit, and integrated into CPRS and the VistA MH files with other test administrations of instruments that are content in the Mental Health Assistant software application.

The SDD is a dual-use document that provides the conceptual design as well as the as-built design. This document will be updated as the product is built to reflect the as-built product. Per the Project Management Accountability System (PMAS) Guide, the SDD with conceptual design is required prior to the Milestone 1 Review. The as-built for each delivery must be incorporated prior to the Milestone 2 Review.

## Mobile Application Information

Project Increment/Release Designation: Project inception in preparation for the initial increment. Product Version: 1.x

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Veteran** | **Care Giver** | **Provider** | **Public** |
| Intended Audience for Mobile Application | X |  | X |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Question** | **Yes** | **No** | **If Yes, what information / data** | **If yes, then identify any consumer or source system(s) for the data** |
| Does the user enter information or data into the mobile application? | X |  | Mental Health Assessments, scheduling information, and Authentication Information | VAMF Mongo and Authentication Service |
| Does Mobile Application store information or data entered by the User? If yes, where is it stored? | X |  | Mental Health Assessment Responses | VAMF Mongo |
| Does Mobile Application transmit/push data entered outside of the VAMF to VA? | X |  | Mental Health Assessment Responses | VistA Mental Health Package |
| Does Mobile Application pull data from a VA Database (external to VAMF)? | X |  | Assessment Scoring | VistA Mental Health Package |
| Does the Mobile Application store in the VAMF or on the device data pulled from a VA Database? |  | X |  |  |

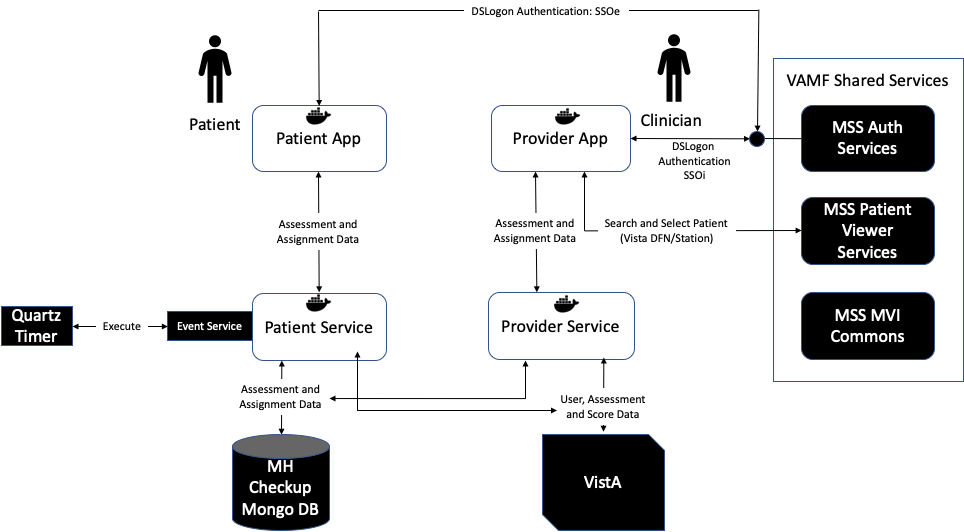
**This application can be classified as one of the following:**

|  |  |
| --- | --- |
| **Mobile Application Classification (Only one box may be checked)** | **Mark with X** |
| 1 – Very Low: Mobile Application does not use VA Resource |  |
| 2 – Low: Read only access to VA Resource(s) (No PII / PHI) |  |

|  |  |
| --- | --- |
| 3 – Medium: Write access to VA Resource(s) |  |
| 4 – High: Read and/or Write access of sensitive data to VA Resource(s) (Includes PII/PHI/other sensitive) | X |

# Application Design

**Logical View**



#### System Context

The following context diagram shows the major external system interfaces, the actors/users, and the flow of data.

There are two different MH Checkup web apps: one for patients and one for providers (clinicians). Authentication occurs prior to reaching the MH Checkup applications via the API Gateway. The JWT token is received by the apps after the gateway redirects the user, and provides the app with the user's ICN. Separate services provide REST base services to each of the apps.

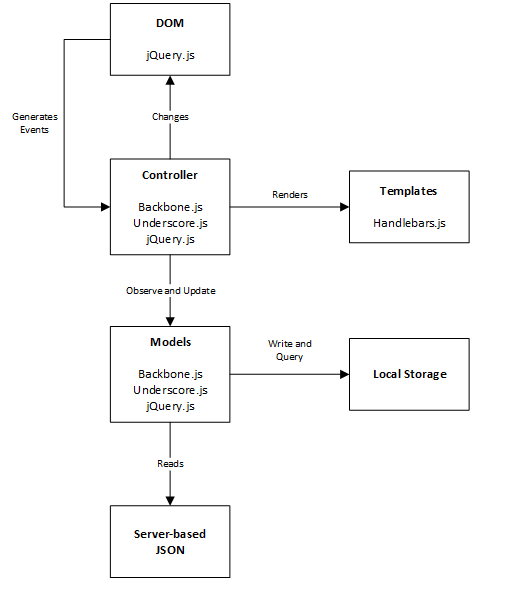
The data tier consists of two facets: the Mongo database storing patient-generated data (PGD) and the integration with the VistA EHR platform. Mongo is utilized for local storing of PGD for assessments and assignments. VistA provides the content for each assessment, stores the assessment results, and provides assessment result scoring.

**Conceptual Architecture**

Mental Health Checkup Web client is a single-page web application. Mental Health Checkup Web Services provides REST services to veteran and provider facing web client to assign/submit/view assessments. Provider-facing web client is able to access REST services to assign and view assessments that are submitted by a veteran facing web client. Mental Health Checkup is developed using Spring MVC framework that uses Java Servlet implementation to expose the REST Services. Mental Health Checkup applies Data Access Object (DAO) Design Pattern. Assignment and information are stored in the Mental Health Checkup MongoDB database. Assessments taken by the veteran are sent to VistA to be scored and stored via VistaLink. The scores and answers are also stored in the Mental Health Checkup MongoDB database. Veterans and providers access the Mental Health Checkup application using their internet browser.

### Design Principles and Patterns

The Mental Health Checkup Web Client is a single-page web application written in Backbone framework, which implements Model-View- Controller (MVC) design pattern.



Single-page website design - By using Backbone.js and capturing the hash changes, we are providing the user a single- page website. Meaning that the user only accesses one HTML page and new content is loaded and displayed on the page.

JavaScript MVC framework - We are using Backbone.js as our front-end MVC framework. By capturing the hash fragment changes in the URL backbone.js is able to route the user to various views. HTML Templates make-up the views, controller classes, and scope variables comprise the model and controller.

A responsive/mobile-first design is used throughout the app to allow browser and mobile device users to use the application effectively. Using the Bootstrap CSS framework, we are able to quickly implement a responsive website that considers mobile applications first, while still providing a good user experience to desktop users.

Accessibility principles - 508 compliance principles are taken into account all along the process. Good keyboard access, Voice over clarity, and color contrast are some of the factors that are taken into account.

Data source abstraction router services are used to provide a layer of abstraction between the display code and the rest service calls. By using services, it allows the data access code to be more interchangeable.

REST conventions - REST conventions are followed manipulation of resources using HTTP VERBS. GET is used for retrieving the resource, POST for creating or processing, PUT is for updating resources and DELETE is for deleting the resource.

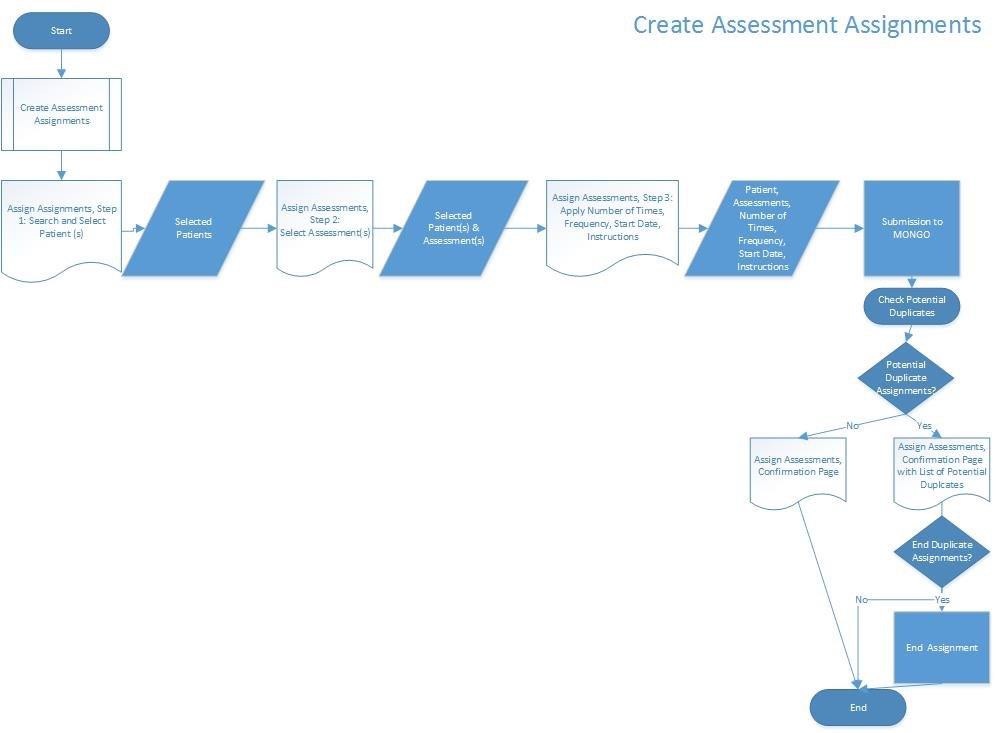
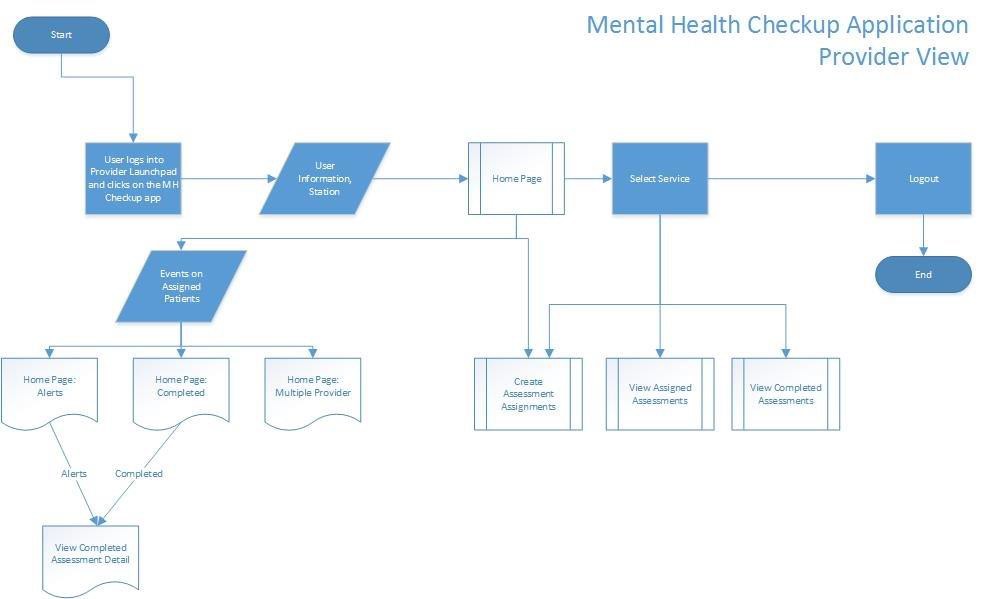
Exception Handling using HTTP standards - Exception handling is performed based on the HTTP status codes. Bad Request (status code

400) is handled at the model or resource level and Internal Server error (status code 500) is handled globally in the application. Leveraging common VAMF Services - The MH Checkup app leverages common VAMF services like MSS Authentication Service, Vista Data Services and MVI Commons.

### Presentation Tier/App Architecture

The web app client is a basic Backbone.js application.The following diagram shows the mobile app client-side design and the use of the mobile technology stack.

#### System Components



User Interface - The User Interface for Mental Heath Checkup is a single page application using MVC pattern. This allows for a responsive application which can be viewed in a number of form factors.

Restful Services - The services start with the application interface which consists of restful services. These are the services called by the UI

Java Services The restful services then make calls to traditional Java services which interact with the Data Access Objects and eventually the data.

Quartz jobs - Quartz jobs run to make create events at time intervals. These events include Due, Past Due, Missed, Feedback, Multiple- Provider and Alert.

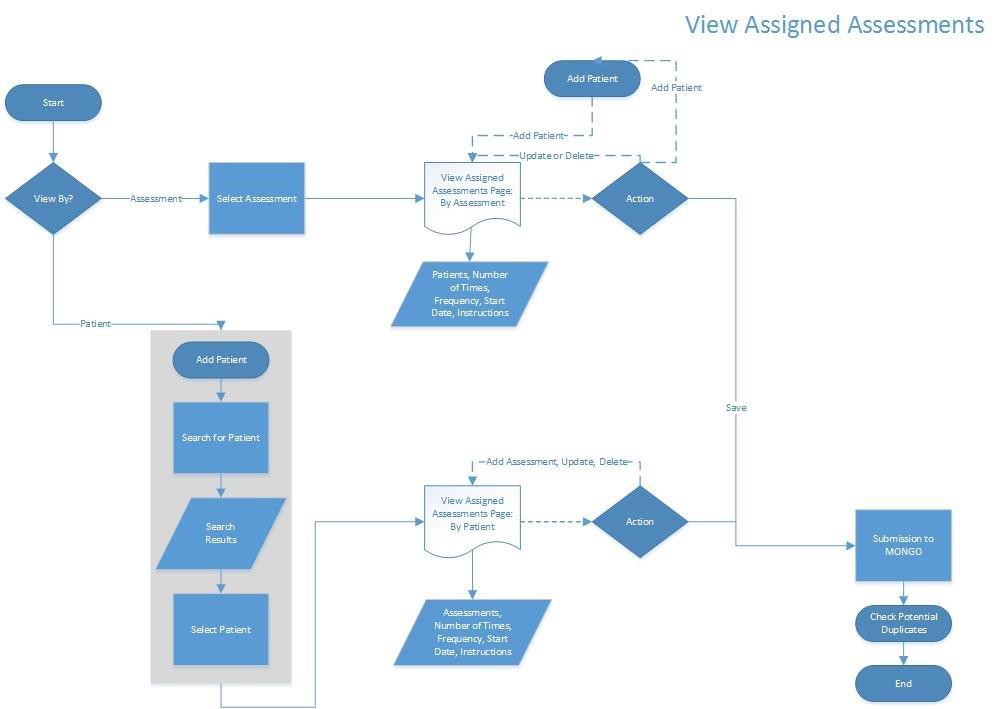
VistaLink - Used to make RPC calls to Vista to retrieve Instruments (assessments) from Vista and persist the results. MongoDB - Document data storage. Data storage for application data.

#### Major Scenarios

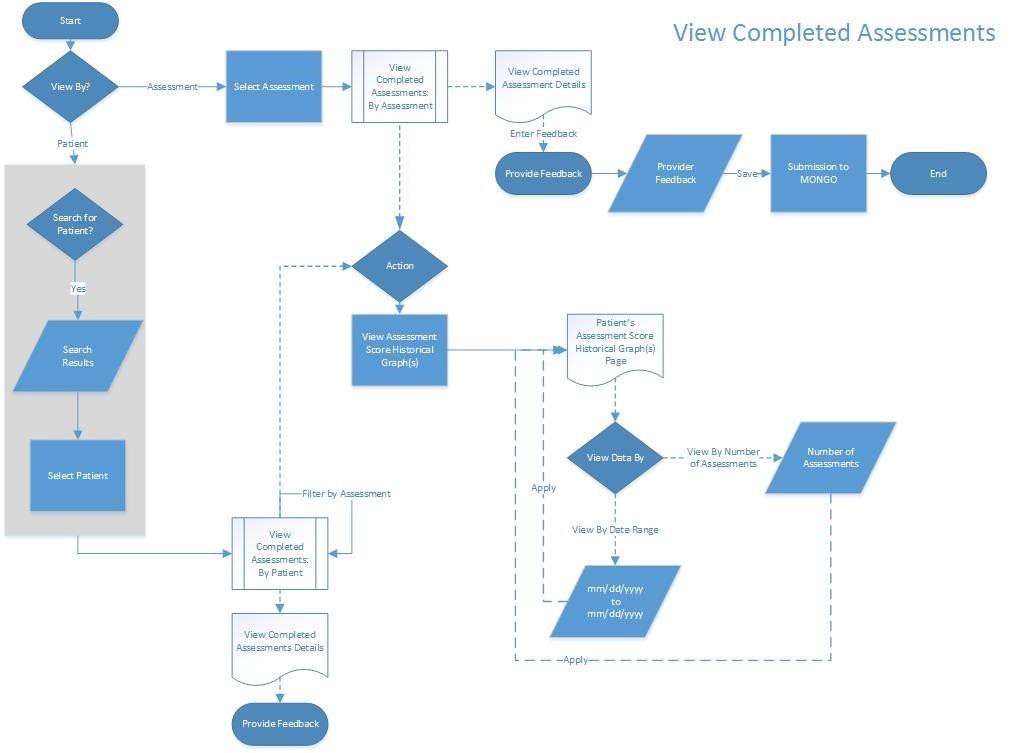
##### Provider Process: Overview

***Provider Process: Create Assessment Assignments***

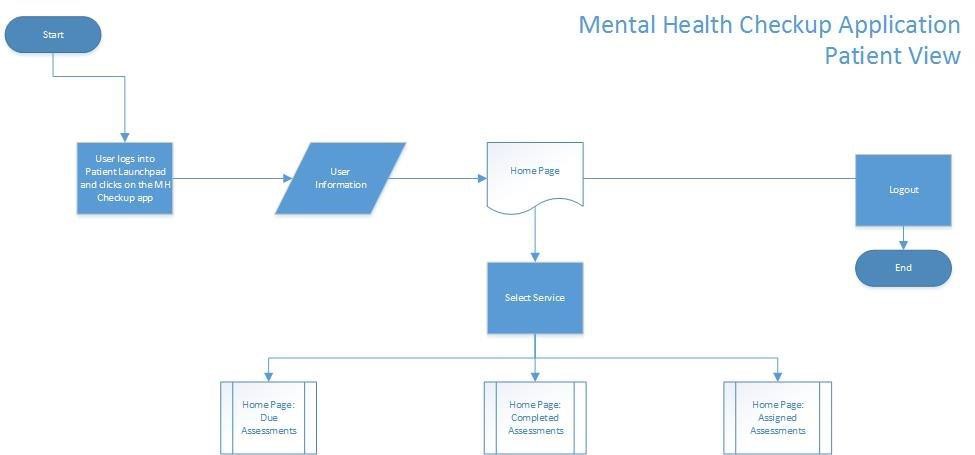
***Provider Process: View Assigned Assessments***



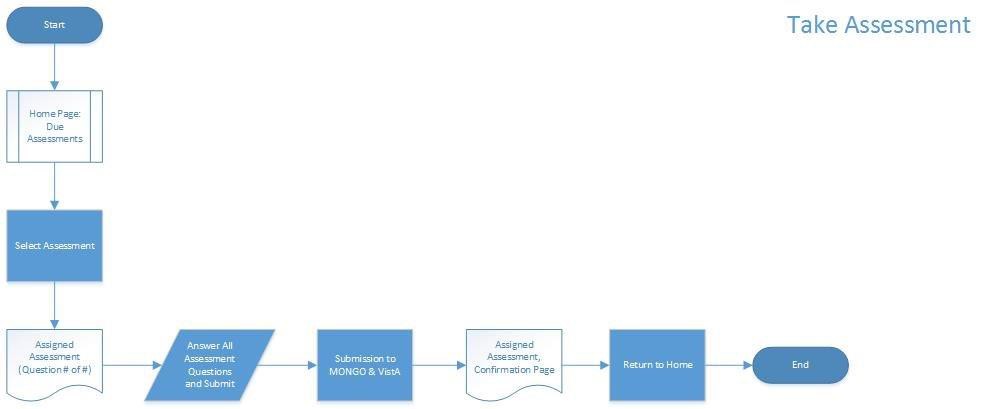
***Provider Process: View Completed Assessments***



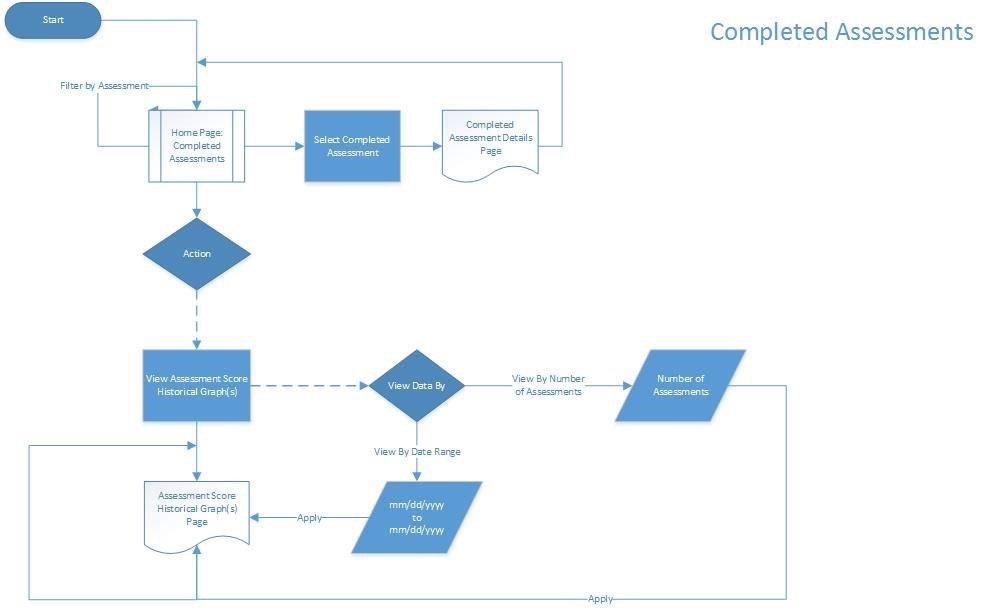
**Veteran Process: Overview**



***Veteran Process: Take Assessment***

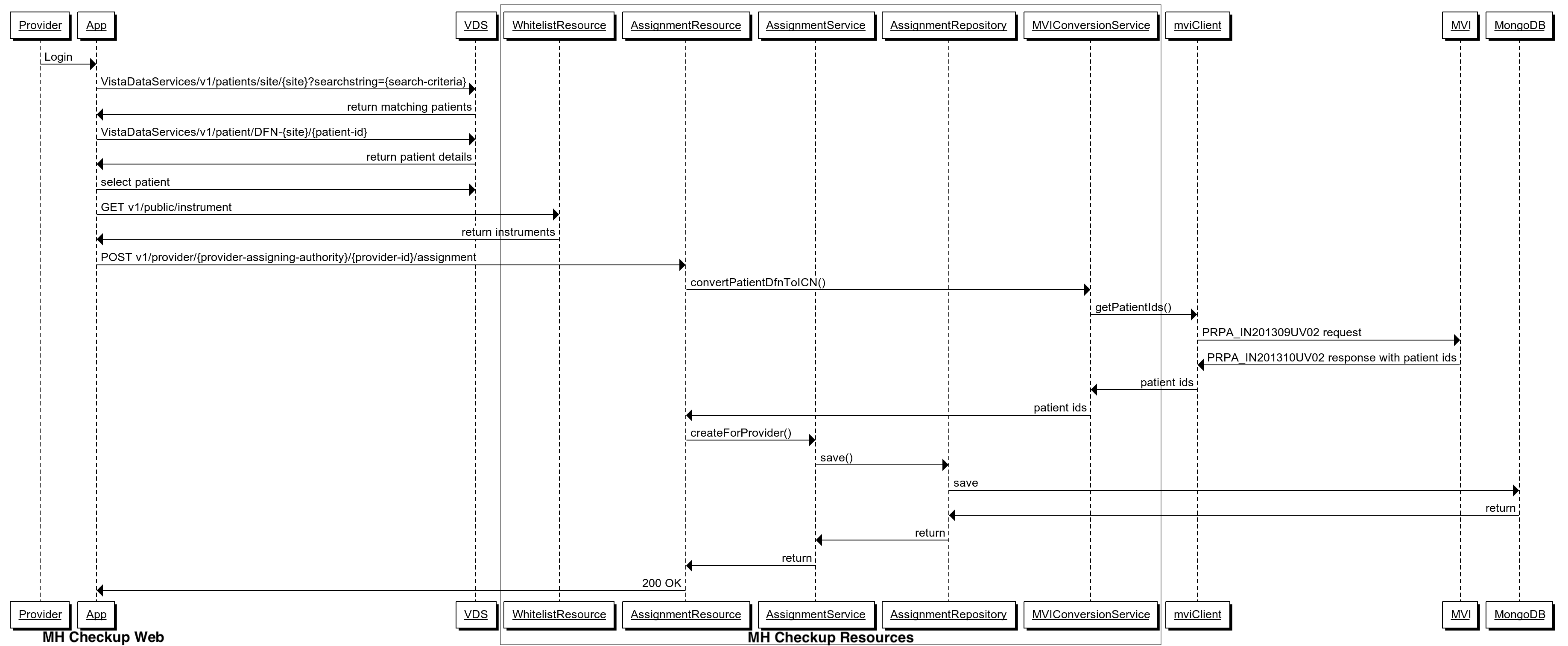


***Veteran Process: Completed Assessments***

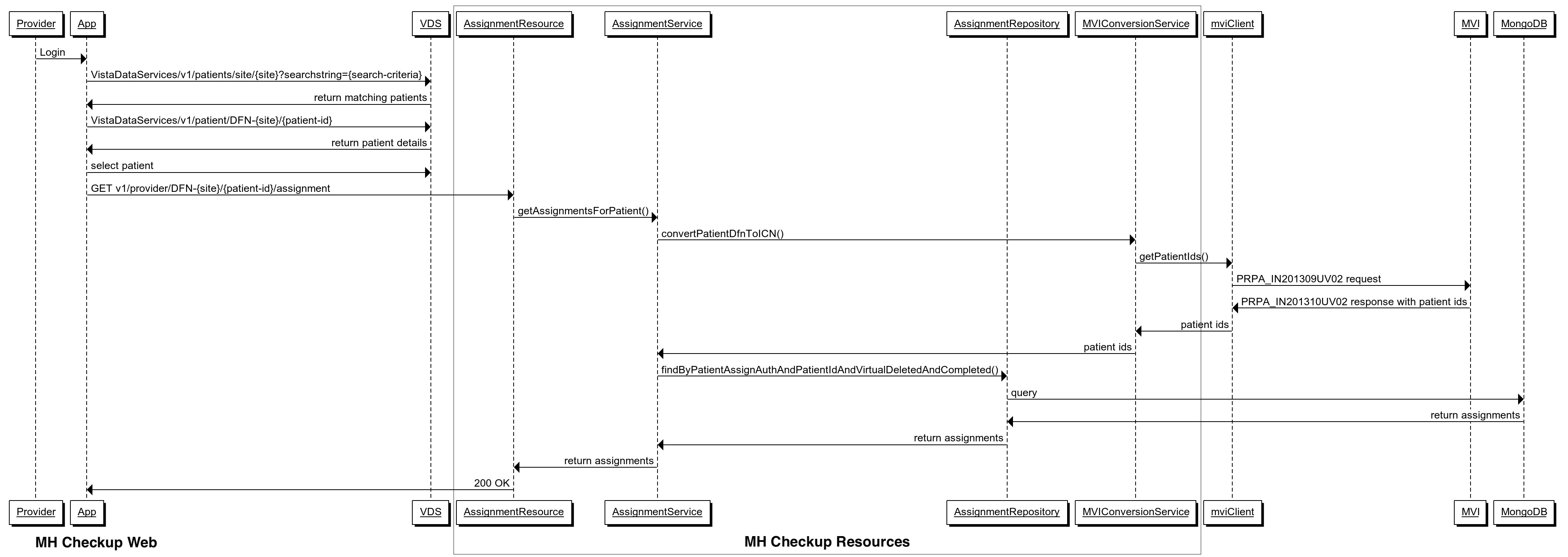


**Provider Sequence Diagrams**

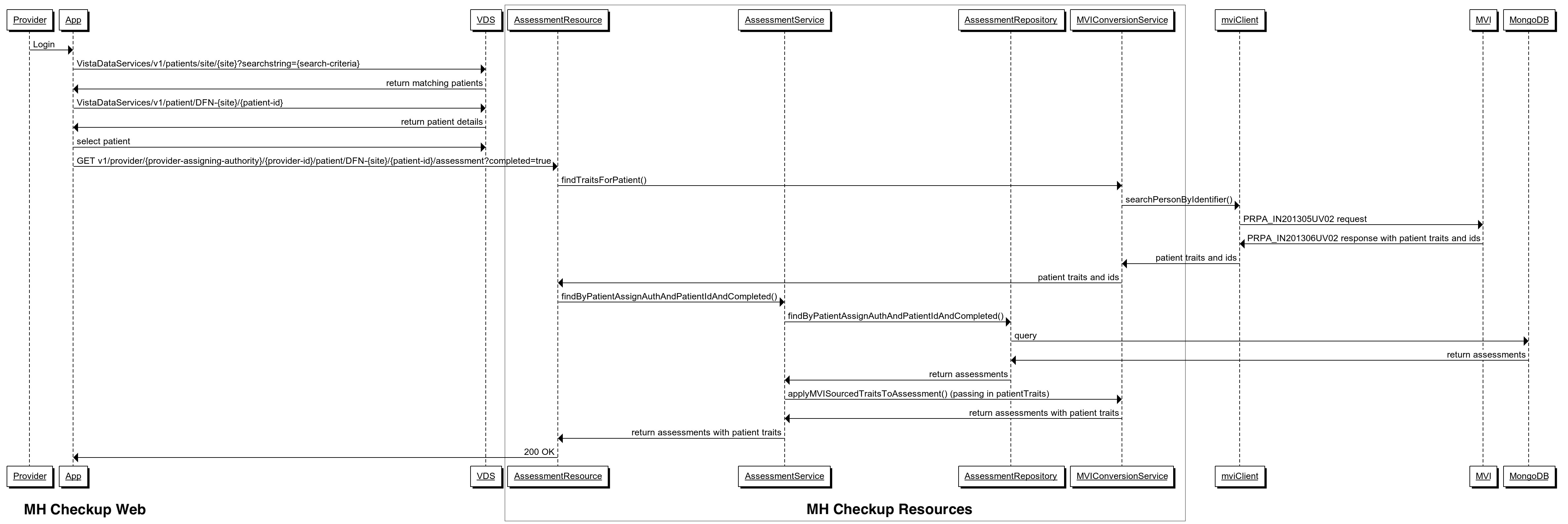
**Provider Assign Assessment**



**View Assigned Assessments**

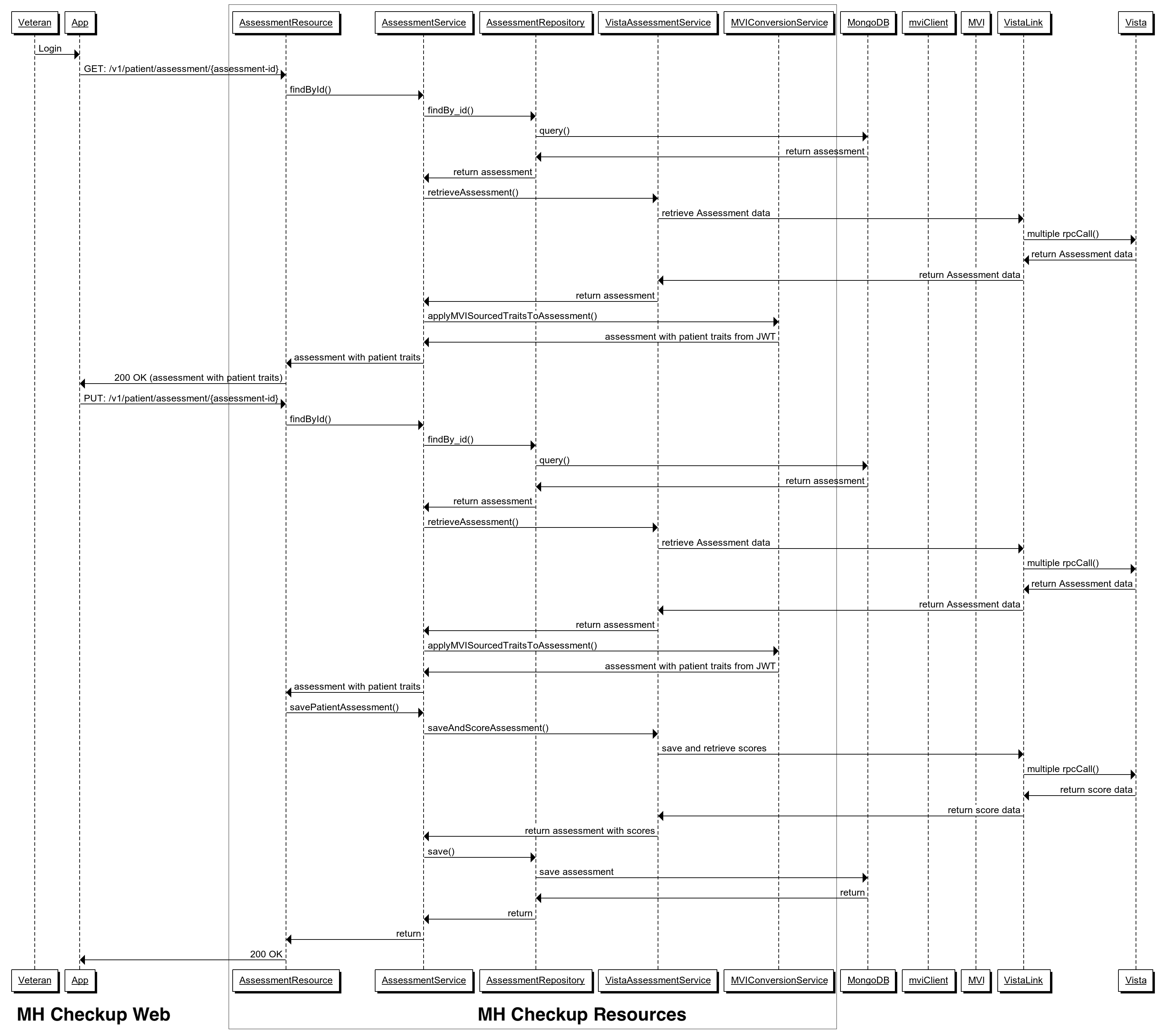


**View Completed Assessments**

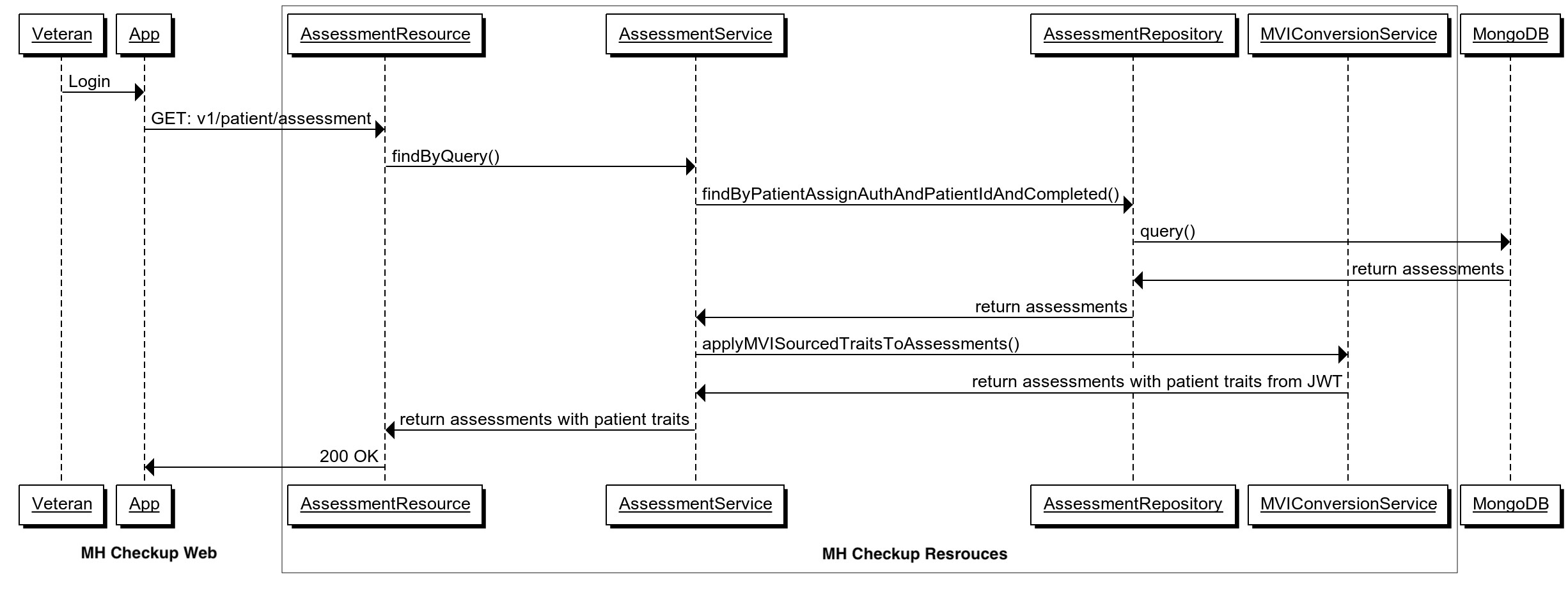


**Patient Sequence Diagrams**

**Take Assessment**



**View Completed Assessments**



**Physical View**

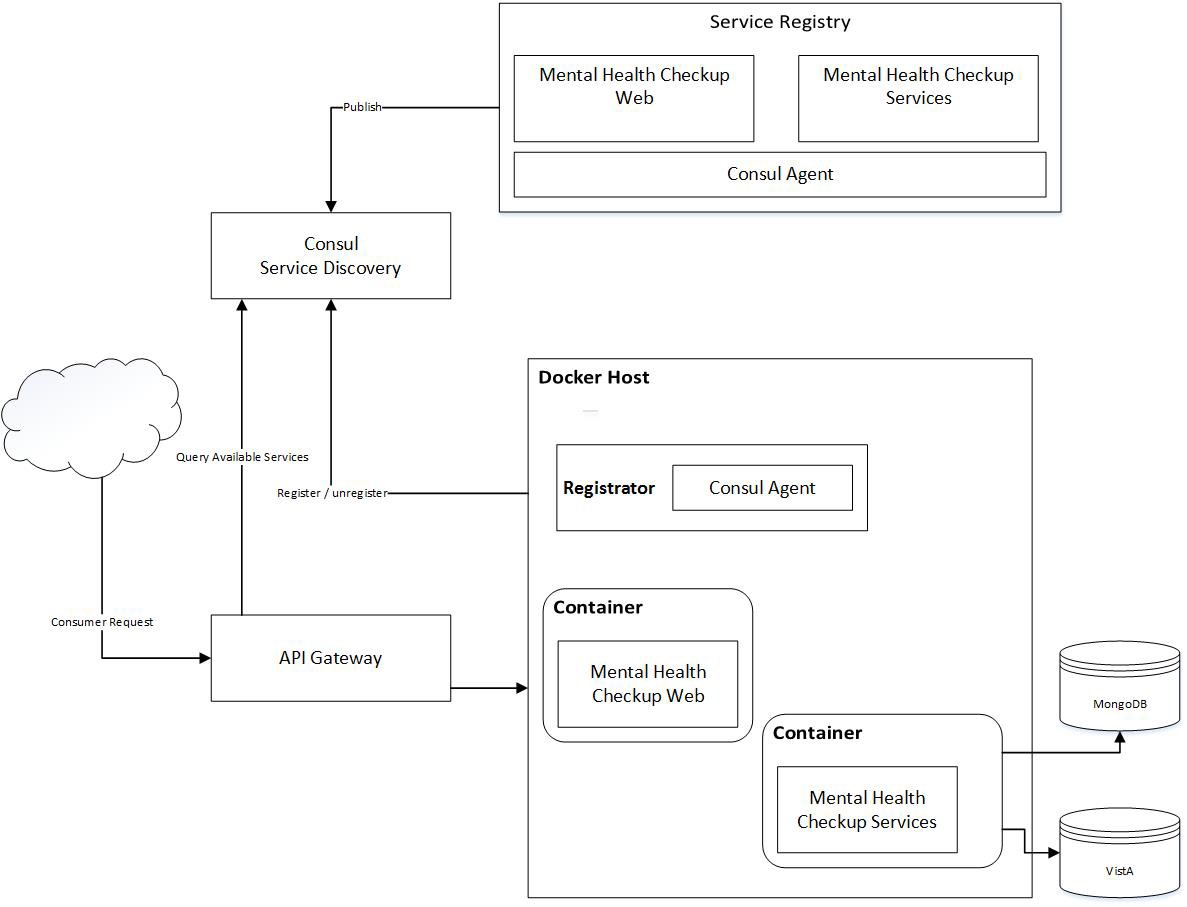
**Deployment Model**

The MH Checkup Veteran app is deployed separately from the MH Checkup Provider app, although the code is shared. The MH Checkup Web Apps (Patient and Provider) and the MH Checkup Back-end Services (Patient and Provider) are deployed as Docker images.

MH Checkup web server which serves the client is a Backbone.js app running on Apache Tomcat. The MH Checkup Service is a Java Spring app deployed to Weblogic as a WAR file.

|  |  |
| --- | --- |
| **Artifact** | **URL** |
| Dockerfile | DNS.URL  DNS.URL |
| Repository | DNS.URL |

#### Network Design

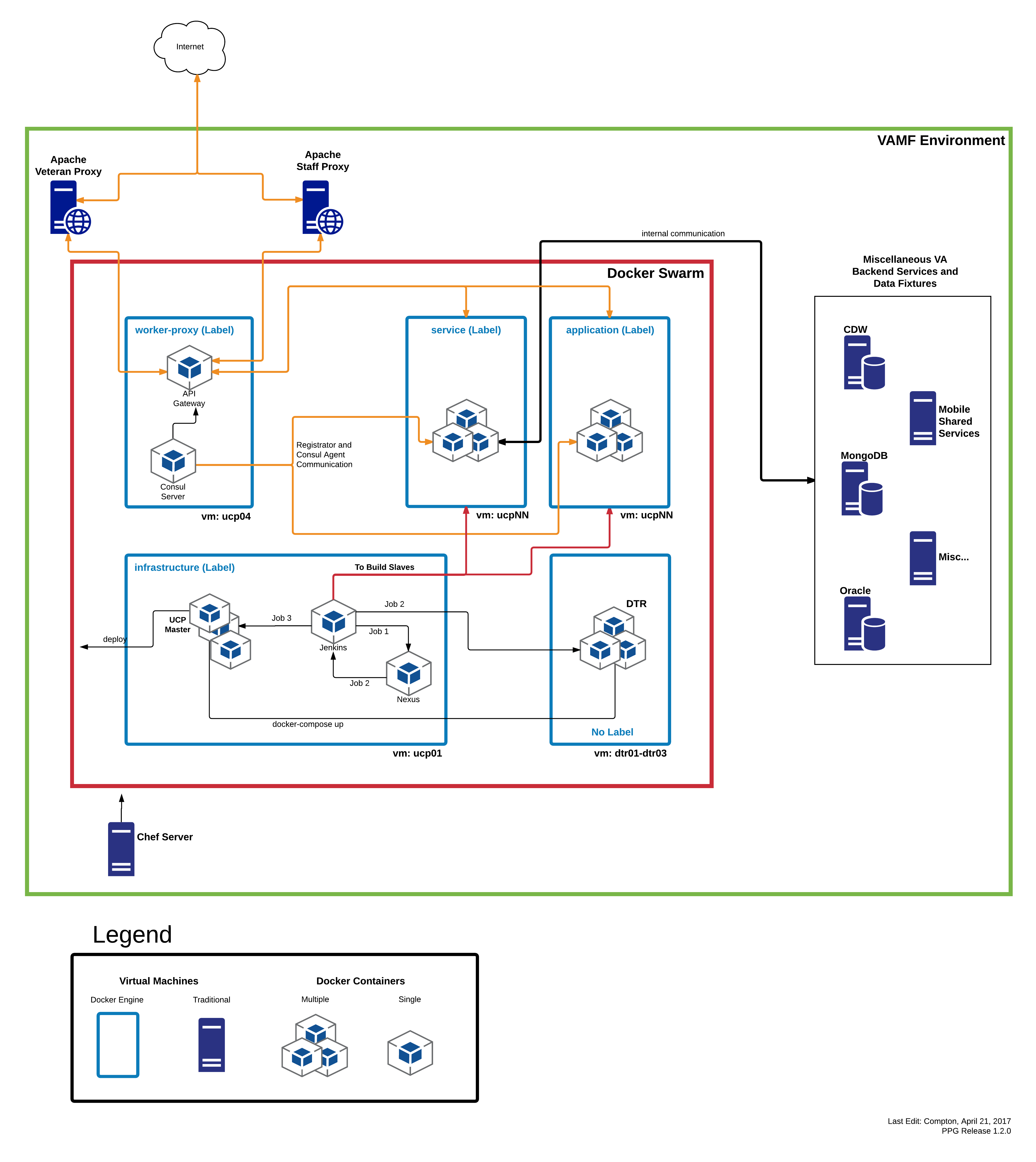


The Mental Health Checkup application is deployed as multiple docker containers (4 total, 2 front-end web applications, and 2 back-end web services for veteran and staff applications). The web application is rendered in the web browsers and uses REST services to communicate to the back end web services.

### Deployment Diagrams

This diagram provides a high-level view of the Deployment components that Mental Health Checkup is dependent upon in vet/staff environment. The Mental Health Checkup web client is deployed on an Apache web server. The Mental Health Checkup back

end service is an autonomous service that is deployed on application server container using a RHEL6 Weblogic container as its base image.



**Interfaces**

VistALink is used to provide connectivity and access to VistA. A VistALink adapter is included in the WAR file deployed to WebLogic and will provide access for the Mental Health Checkup apps.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Device's OS** | **Native** | **Hybrid** | **Web-Only** | **OS version supported** | **Targeted devices (iPhone, iPad, Samsung model...)** | **Estimated Storage Required for Device** |
| iOS |  |  | X |  |  |  |
| Android |  |  | X |  |  |  |
| Windows 7 |  |  | X |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
| **Technologies, Libraries, and Tools Used in the App** | **Version** | **On the TRM? (If not, provide a link to the waiver)** | **TRM Link (link must be provided for all technologies. If technology has a waiver, provide link to waiver as well.)** |
| Backbone | 1.2.3 | Yes | DNS.URL |
| Bootstrap | 3.3.6 | Yes | DNS.URL |
| Handlebars | 4.0 | Yes | DNS.URL |
| Marionette | 2.4.4 | Yes | DNS.URL |
| Underscore | 1.8.3 | Yes | DNS.URL |

|  |  |  |  |
| --- | --- | --- | --- |
| jQuery | 2.2 | Yes | DNS.URL |
| Bower | 1.8.4 | Yes | DNS.URL |
| Grunt | 0.4.5 | Yes | DNS.URL |
| SASS | 3.4.23 | Yes | DNS.URL2 |
| Java | 1.7.x | Yes | DNS.URL |
| WebLogic | 12c (12.1.3) | Yes | DNS.URL |
| Spring Framework | 4.3.9.RELEASE | Yes | DNS.URL |
| Spring Security | 3.2.4.RELEASE | Yes | DNS.URL |
| Spring Data Mongo | 1.9.5.RELEASE | Yes | DNS.URL) |
| Jasmine | 2.4 | Yes | DNS.URL |
| Chart.js | 1.0.2 | Yes | DNS.URL |
| bootstrap-datepicker | 1.5 | Yes | DNS.URL |
| modernizr | 3.3.1 | Yes | DNS.URL |
| moment.js | 2.15 | Yes | DNS.URL |

# Data Architecture

### Data Dictionary

A detailed Data Dictionary Definition (DDD) is provided as a separate document: [Mental Health Checkup Data Dictionary Definitions (DDD) v1.x](https://wiki.mobilehealth.va.gov/display/MHPRO/Mental%2BHealth%2BCheckup%2BData%2BDictionary%2BDefinitions%2B%28DDD%29%2Bv1.x)

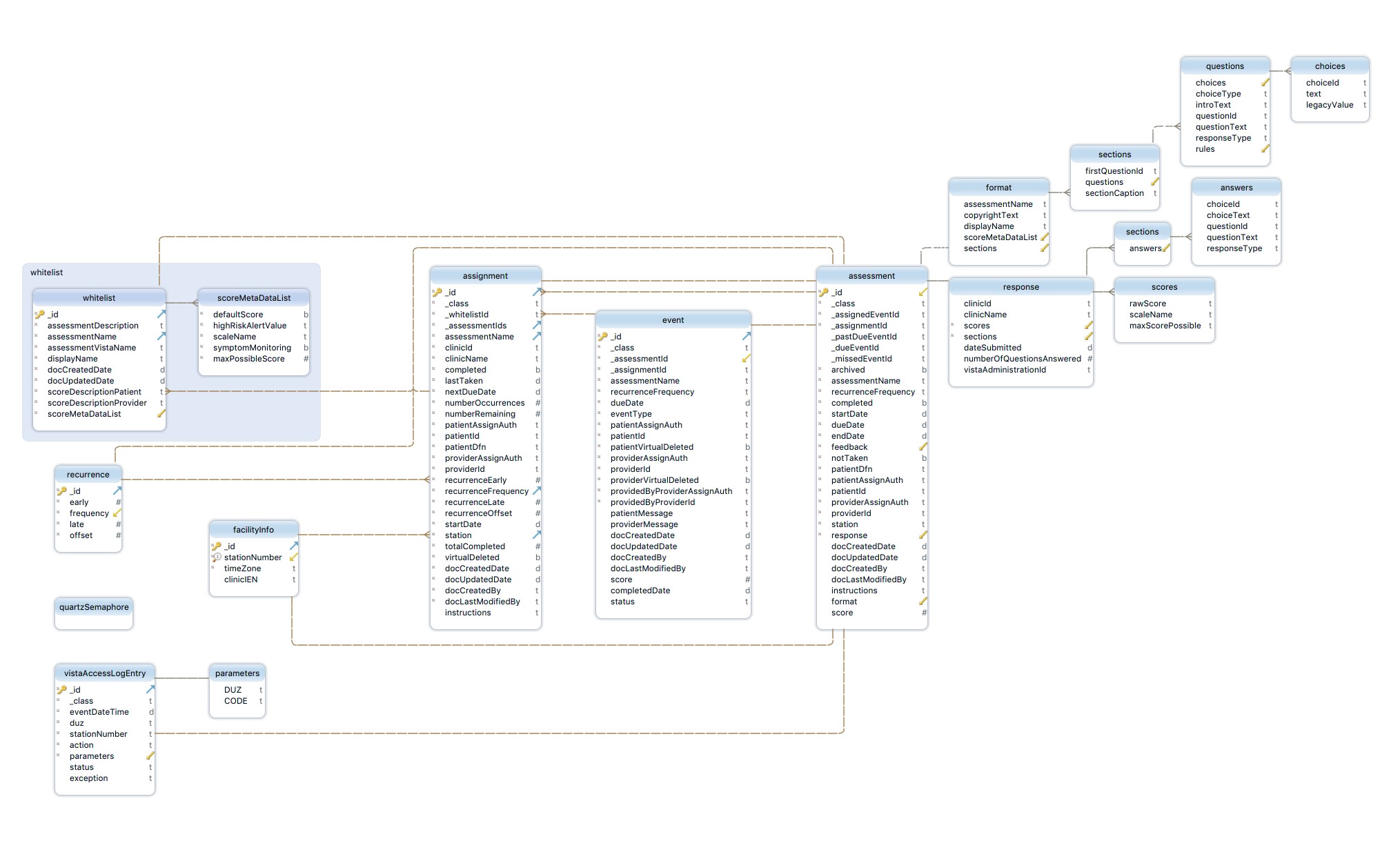
|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Ref #** | **NoSQL Collection** | **Description of data collection** | **Source of data** | **Structure** |
| 1 | mhprodb.recurrence | This collection contains the recurrence metadata needed for scheduling within the Mental Health Checkup Mobile Applications. |  | {  "recurrence": {  "\_id":  "String",  "frequency": "String", "offset": "Integer",  "early": "Integer",  "late":  "Integer",  "docCreatedDate": "DateTime",  "docUpdatedDate": "DateTime"  }  } |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 2 | mhprodb.whitelist | This collection contains metadata related to Mental Health Assessments (also known as Intruments) that are approved for use within the Mental Health Checkup Mobile Applications. |  | {  "whitelist": {  "\_id":  "String",  "assessmentName": "String",  "displayName": "String",  "assessmentDescription": "String",  "scoreMetadata": { ["scaleName": "String", "default":"Boolean",  "symptomMonitoring":" Boolean",  "hishRiskAlertValue": "String"]  },  "scoreDescriptionPatient ": "String",  "scoreDescriptionProvide r": "String",  "docCreatedDate": "DateTime",  "docUpdatedDate": "DateTime"  }  } |
| 3 | mhprodb.event | This collection contains patient and provider events relating to alerts, past due, completed, and assigned assessments. |  | {  "event": { "\_id": "String",  "providerAssignAuth": "String",  "providerId": "String", "patientAssignAuth":  "String",  "patientId": "String", "\_assignmentId":  "String", "\_assessmentId":  "String",  "eventType": "String", "dueDate": "String", "providerMessage":  "String", "patientMessage":  "String",  "patientVirtualDeleted": "Boolean",  "providerVirtualDeleted"  : "Boolean", "assessmentName":  "String", "docCreatedDate":  "DateTime", "docUpdatedDate":  "DateTime"  }  } |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 4 | mhprodb.assignment | This is the main collection used by the Patient and Staff Mental Health Checkup mobile applications. It contains  the metadata providers specify when creating patient assignments. |  | {  "assignment": {  "\_id":  "String",  "providerAssignAuth": "String",  "providerId": "String",  "patientAssignAuth": "String",  "patientId":  "String",  "clinicId":  "String",  "clinicName": "String",  "\_whitelistId": "String",  "recurrenceFrequency": "String",  "recurrenceOffset": "Integer",  "recurrenceEarly": "Integer",  "recurrenceLate": "Integer",  "startDate":  "Date",  "nextDueDate": "Date",  "numberOccurrences": "Integer",  "numberRemaining": "Integer",  "\_assessmentIds": "Array",  "assessmentName": "String",  "totalCompleted": "Integer",  "instructions": "String",  "lastTaken":  "DateTime",  "completed":  "Boolean",  "virtualDeleted": "Boolean",  "docCreatedDate": "DateTime",  "docUpdatedDate": "DateTime"  }  } |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 5 | mhprodb.assessment | The assessments collection contains one document for each assessment assigned to a patient. This document specifies the due date for the assessment, along with the patient's responses, and a snapshot of the assessment (format) as retrieved from VistA at the time of assignment. This model is unique as the data saved must rely on data being retrieved from the VistA Mental Health Package and saved within the Mental Health Package so that data can be viewed within legacy applications. Ids associated  within pointers to VistA Files and fields must be stored within the collection. |  | {  "assessment": {  [  "\_id": "String", "patientAssignAuth": "String",  "patientId": "String", "providerAssignAuth": "String",  "providerId": "String", "providerName": "String",  "dueDate": "Date", "archived": "Boolean", "completed": "Boolean", "notTaken": "Boolean", "feedback": "String", "\_pastDueEventId": "String", "\_assignedEventId": "String", "\_assignmentId": "String", "assessmentName": "String",  "format": “Object”, "instructions": "String", "response": “Object”  ]  }  } |
| 6 | mhprodb.vistaAccessLogEntry | The audit log provides an audit trail for government auditors and others with a need to know when a patient’s healthcare record is accessed in VistA. It represents a record of all Vista accesses by each user from Mental Health Checkup, including the RPCs that were called and the parameters to those RPCs. It is not intended to show error logging or performance statistics. |  | {  "vistaAccessLogEntry":{ "\_id" : "String",  "stationNumber" : "String", "duz" : "String", "actionDate" : Date, "params" : { String, String}, "status" : "String",  "action" : "String"  "exception" : "String"  }  } |
| 7 | mhprodb.quartzSemaphore | This semaphore, as implied by the collection name, is a semaphore referenced by the quartz scheduler on each server. The collection contains ONLY ONE DOCUMENT. All quartz schedulers use this document to keep themselves under check such that more than one scheduler is not allowed to run the nightly batch process. The scheduler that "locks" this semaphore is the only one allowed to run the batch process. The remaining schedulers exit gracefully upon discovering that this semaphore is locked. |  | {  "quartzSemaphore":{  "\_id":"String",  "pidAtHostname":" String",  "jobIdentifier":" String"  }  } |
| 8 | mhprodb.assessmentVoiceInfo | Lookup data containing the patient voiced text and severity for different assessments, given a specific score. |  | {  "\_id" : "String,  "scope" : "String", "assessmentName" : "String", "lowScore" : Integer, "highScore" : Integer, "severity" : "String",  "text" : "String"  } |
| 9 | mhprodb.facilityInfo | Lookup data containing information about each facility (e.  g. its timezone) |  | {  "\_id" : "String", "stationNumber" : "String", "timeZone" : "String"  } |

Entity Relationship Diagram representation of collections is provided below:



### Interface Design

#### Existing VAMF Interfaces Used

|  |  |  |
| --- | --- | --- |
| **Interface Name (incl. version number)** | **Data Used by Mobile App** | **Data Retrieved - provide specific data elements used by this app** |
| **API Gateway** | GET /jwt | JWT |
| **User Service** | GET /users/v1/landing/?redirect\_uri=/mhc- provider/  GET /users/v1/logout | Redirect to login  Redirect to logout and Deletes Session User details |
| **Vista Data Services** | GET /VistaDataServices/v1/patients/site/  {facility}?searchstring={input} | Patients |
| **MVI** | getPatientIds() searchPersonByIdentifier() | For an MVI identifier passed in, get patient IDs  For an MVI identifier, search for patient IDs and traits |

|  |  |  |
| --- | --- | --- |
| **Vista** | RPC use via Vistalink  YTQ TSLIST1 YTQ SECTION YTQ QUESTALL YTQ CHOICES YTQ RULES YTQ SKIP  YTQ SAVE ADMIN  YTQ SET ANSWER ALL YTQ SCORE ADMIN YTQ GET SCALES  YTQ USERQ  Patches required include:   1. MBAD\*1\*1 MAP2 MH Checkup VISTA support for initial release. 2. MBAD\*1\*2, an information patch for the release for MH Checkup. 3. YS\*5.01\*132 Allow Application Proxy access to Mental Health RPCs.   Two RPCs that are associated to MH Checkup are available and can be accessed through VIA.   1. ICR-6827, YTQ Save Admin. 2. ICR-4677, Application Proxy for Mental Health Checkup. | To retrieve user, assessment, and score information |

New/Updated VAMF Interfaces Added

### Interface Design

#### Swagger definition for MH Checkup Service:

{

"swagger" : "2.0", "info" : {

"version" : "v1",

"title" : "Mental Health Checkup Service"

},

"paths" : {

"/v\*\*/public/resource-directory" : { "get" : {

"operationId" : "createResourceDirectory",

"produces" : [ "application/json", "application/xml" ], "responses" : {

"200" : {

"description" : "successful operation", "schema" : {

"$ref" : "#/definitions/ResourceSupport"

}

}

}

}

},

"/v1/patient/assessment" : { "get" : {

"operationId" : "getPatientCompletedAssessments", "produces" : [ "application/json", "application/xml" ], "parameters" : [ {

"name" : "status",

"in" : "query", "required" : false, "type" : "string"

} ],

"responses" : {

"200" : {

"description" : "successful operation", "schema" : {

"type" : "array", "items" : {

"$ref" : "#/definitions/GenericResourceSupportAssessment"

}

}

}

}

}

},

"/v1/patient/assessment/{assessment-id}" : { "get" : {

"operationId" : "getPatientAssessment",

"produces" : [ "application/json", "application/xml" ], "parameters" : [ {

"name" : "assessment-id",

"in" : "path", "required" : true, "type" : "string"

} ],

"responses" : {

"200" : {

"description" : "successful operation", "schema" : {

"$ref" : "#/definitions/GenericResourceSupportAssessment"

}

}

}

},

"put" : {

"operationId" : "updatePatientAssessment", "consumes" : [ "application/json" ], "produces" : [ "application/json" ], "parameters" : [ {

"name" : "assessment-id",

"in" : "path", "required" : true, "type" : "string"

}, {

"in" : "body",

"name" : "body", "required" : false, "schema" : {

"$ref" : "#/definitions/Assessment"

}

} ],

"responses" : {

"200" : {

"description" : "successful operation", "schema" : {

"$ref" : "#/definitions/GenericResourceSupportAssessment"

}

}

}

}

},

"/v1/patient/assessmentVoicedInfo/{assessment-id}" : { "get" : {

"operationId" : "getPatientAssessmentVoicedInfo", "produces" : [ "application/json", "application/xml" ], "parameters" : [ {

"name" : "assessment-id",

"in" : "path", "required" : true, "type" : "string"

} ],

"responses" : {

"200" : {

"description" : "successful operation", "schema" : {

"$ref" : "#/definitions/GenericResourceSupportAssessmentVoiceInfo"

}

}

}

}

},

"/v1/patient/assigned" : { "get" : {

"operationId" : "getFutureAssignmentsForPatient", "produces" : [ "application/json", "application/xml" ], "responses" : {

"200" : {

"description" : "successful operation", "schema" : {

"type" : "array", "items" : {

"$ref" : "#/definitions/GenericResourceSupportAssessment"

}

}

}

}

}

},

"/v1/patient/event" : { "get" : {

"operationId" : "getPatientEvents",

"produces" : [ "application/json", "application/xml" ], "parameters" : [ {

"name" : "type",

"in" : "header", "required" : true, "type" : "string"

} ],

"responses" : {

"200" : {

"description" : "successful operation", "schema" : {

"type" : "array", "items" : {

"$ref" : "#/definitions/GenericResourceSupportEvent"

}

}

}

}

}

},

"/v1/provider/patient/{assigning-authority}/{patient-id}/assigned" : { "get" : {

"operationId" : "getFutureAssignmentsForPatientOnProviderSide", "produces" : [ "application/json", "application/xml" ], "parameters" : [ {

"name" : "assigning-authority", "in" : "path",

"required" : true, "type" : "string"

}, {

"name" : "patient-id",

"in" : "path", "required" : true, "type" : "string"

} ],

"responses" : {

"200" : {

"description" : "successful operation", "schema" : {

"type" : "array", "items" : {

"$ref" : "#/definitions/GenericResourceSupportAssignmentDue"

}

}

}

}

}

},

"/v1/provider/{assigning-authority}/{patient-id}/assignment" : { "get" : {

"operationId" : "getAssignmentsForPatient",

"produces" : [ "application/json", "application/xml" ], "parameters" : [ {

"name" : "assigning-authority", "in" : "path",

"required" : true, "type" : "string"

}, {

"name" : "patient-id",

"in" : "path", "required" : true, "type" : "string"

} ],

"responses" : {

"200" : {

"description" : "successful operation", "schema" : {

"type" : "array", "items" : {

"$ref" : "#/definitions/GenericResourceSupportAssignment"

}

}

}

}

}

},

"/v1/provider/{assigning-authority}/{provider-id}/assessment" : { "get" : {

"operationId" : "getProviderAssessmentsForAssessmentName", "produces" : [ "application/json", "application/xml" ], "parameters" : [ {

"name" : "assigning-authority", "in" : "path",

"required" : true, "type" : "string"

}, {

"name" : "provider-id",

"in" : "path", "required" : true, "type" : "string"

}, {

"name" : "assessmentName", "in" : "query",

"required" : true, "type" : "string"

}, {

"name" : "completed",

"in" : "query", "required" : false, "type" : "boolean"

} ],

"responses" : {

"200" : {

"description" : "successful operation", "schema" : {

"type" : "array", "items" : {

"$ref" : "#/definitions/GenericResourceSupportAssessment"

}

}

}

}

}

},

"/v1/provider/{assigning-authority}/{provider-id}/assessmentVoicedInfo" : { "get" : {

"operationId" : "getProviderAssessmentVoicedInfoForAssessmentName", "produces" : [ "application/json", "application/xml" ], "parameters" : [ {

"name" : "assigning-authority", "in" : "path",

"required" : true, "type" : "string"

}, {

"name" : "provider-id",

"in" : "path", "required" : true, "type" : "string"

}, {

"name" : "assessment-name", "in" : "query",

"required" : true, "type" : "string"

} ],

"responses" : {

"200" : {

"description" : "successful operation", "schema" : {

"type" : "array", "items" : {

"$ref" : "#/definitions/GenericResourceSupportAssessmentVoiceInfo"

}

}

}

}

}

},

"/v1/provider/{provider-assigning-authority}/{provider-id}/assessment/{assessment-id}/feedback" : { "put" : {

"operationId" : "updateAssessmentFeedback", "consumes" : [ "application/json" ],

"produces" : [ "application/json", "application/xml" ], "parameters" : [ {

"name" : "provider-assigning-authority", "in" : "path",

"required" : true, "type" : "string"

}, {

"name" : "provider-id",

"in" : "path", "required" : true, "type" : "string"

}, {

"name" : "assessment-id",

"in" : "path", "required" : true, "type" : "string"

}, {

"in" : "body",

"name" : "body", "required" : false, "schema" : {

"$ref" : "#/definitions/FeedbackRequestPayload"

}

} ],

"responses" : {

"200" : {

"description" : "successful operation", "schema" : {

"$ref" : "#/definitions/GenericResourceSupportAssessment"

}

}

}

}

},

"/v1/provider/{provider-assigning-authority}/{provider-id}/assignment/duplicates" : { "get" : {

"operationId" : "getAssignmentDuplicates",

"produces" : [ "application/json", "application/xml" ], "parameters" : [ {

"name" : "assignment-id[]", "in" : "query",

"required" : true, "type" : "array", "items" : {

"type" : "string"

},

"collectionFormat" : "multi"

}, {

"name" : "provider-assigning-authority", "in" : "path",

"required" : true, "type" : "string"

}, {

"name" : "provider-id",

"in" : "path", "required" : true, "type" : "string"

} ],

"responses" : {

"200" : {

"description" : "successful operation", "schema" : {

"type" : "array", "items" : {

"$ref" : "#/definitions/AssignmentDuplicates"

}

}

}

}

}

},

"/v1/provider/{provider-assigning-authority}/{provider-id}/assignment/{assessment-name}" : {

"get" : {

"operationId" : "getAssignmentsForAssessment", "produces" : [ "application/json", "application/xml" ], "parameters" : [ {

"name" : "provider-assigning-authority", "in" : "path",

"required" : true, "type" : "string"

}, {

"name" : "provider-id",

"in" : "path", "required" : true, "type" : "string"

}, {

"name" : "assessment-name", "in" : "path",

"required" : true, "type" : "string"

} ],

"responses" : {

"200" : {

"description" : "successful operation", "schema" : {

"type" : "array", "items" : {

"$ref" : "#/definitions/GenericResourceSupportAssignment"

}

}

}

}

}

},

"/v1/provider/{provider-assigning-authority}/{provider-id}/assignment/{assignment-id}" : { "post" : {

"operationId" : "postAssignments", "consumes" : [ "application/json" ],

"produces" : [ "application/json", "application/xml" ], "parameters" : [ {

"name" : "provider-assigning-authority", "in" : "path",

"required" : true, "type" : "string"

}, {

"name" : "provider-id",

"in" : "path", "required" : true, "type" : "string"

}, {

"name" : "assignment-id",

"in" : "path", "required" : false, "type" : "string"

}, {

"in" : "body",

"name" : "body", "required" : false, "schema" : {

"$ref" : "#/definitions/AssignmentSet"

}

} ],

"responses" : {

"200" : {

"description" : "successful operation", "schema" : {

"type" : "array", "items" : {

"$ref" : "#/definitions/GenericResourceSupportAssignment"

}

}

}

}

},

"put" : {

"operationId" : "putAssignment", "consumes" : [ "application/json" ],

"produces" : [ "application/json", "application/xml" ], "parameters" : [ {

"name" : "provider-assigning-authority", "in" : "path",

"required" : true, "type" : "string"

}, {

"name" : "provider-id",

"in" : "path", "required" : true, "type" : "string"

}, {

"name" : "assignment-id",

"in" : "path", "required" : false, "type" : "string"

}, {

"in" : "body",

"name" : "body", "required" : false, "schema" : {

"$ref" : "#/definitions/AssignmentSet"

}

} ],

"responses" : {

"200" : {

"description" : "successful operation", "schema" : {

"type" : "array", "items" : {

"$ref" : "#/definitions/GenericResourceSupportAssignment"

}

}

}

}

},

"delete" : {

"operationId" : "deleteVirtual", "parameters" : [ {

"name" : "provider-assigning-authority", "in" : "path",

"required" : true, "type" : "string"

}, {

"name" : "provider-id",

"in" : "path", "required" : true, "type" : "string"

}, {

"name" : "assignment-id",

"in" : "path", "required" : true, "type" : "string"

} ],

"responses" : {

"default" : {

"description" : "successful operation"

}

}

}

},

"/v1/provider/{provider-assigning-authority}/{provider-id}/event" : { "get" : {

"operationId" : "getProvider",

"produces" : [ "application/json", "application/xml" ], "parameters" : [ {

"name" : "provider-assigning-authority", "in" : "path",

"required" : true, "type" : "string"

}, {

"name" : "provider-id",

"in" : "path", "required" : true, "type" : "string"

}, {

"name" : "type",

"in" : "header", "required" : true, "type" : "string"

} ],

"responses" : {

"200" : {

"description" : "successful operation", "schema" : {

"type" : "array", "items" : {

"$ref" : "#/definitions/GenericResourceSupportEvent"

}

}

}

}

}

},

"/v1/provider/{provider-assigning-authority}/{provider-id}/event/{\_id}" : { "get" : {

"operationId" : "getEvent",

"produces" : [ "application/json", "application/xml" ], "parameters" : [ {

"name" : "provider-assigning-authority", "in" : "path",

"required" : true, "type" : "string"

}, {

"name" : "provider-id",

"in" : "path", "required" : true, "type" : "string"

}, {

"name" : "\_id",

"in" : "path", "required" : true, "type" : "string"

} ],

"responses" : {

"200" : {

"description" : "successful operation", "schema" : {

"$ref" : "#/definitions/GenericResourceSupportEvent"

}

}

}

},

"put" : {

"operationId" : "updateEventStatus", "consumes" : [ "application/json" ], "produces" : [ "application/json" ], "parameters" : [ {

"name" : "provider-assigning-authority", "in" : "path",

"required" : true, "type" : "string"

}, {

"name" : "provider-id",

"in" : "path", "required" : true, "type" : "string"

}, {

"name" : "\_id",

"in" : "path", "required" : true, "type" : "string"

}, {

"in" : "body",

"name" : "body", "required" : false, "schema" : {

"$ref" : "#/definitions/Event"

}

} ],

"responses" : {

"200" : {

"description" : "successful operation", "schema" : {

"$ref" : "#/definitions/GenericResourceSupportEvent"

}

}

}

},

"delete" : {

"operationId" : "delete", "parameters" : [ {

"name" : "provider-assigning-authority", "in" : "path",

"required" : true, "type" : "string"

}, {

"name" : "provider-id",

"in" : "path", "required" : true, "type" : "string"

}, {

"name" : "\_id",

"in" : "path", "required" : true, "type" : "string"

} ],

"responses" : {

"default" : {

"description" : "successful operation"

}

}

}

},

"/v1/provider/{provider-assigning-authority}/{provider-id}/patient/{assigning-authority}/{patient-id}

/assessment" : {

"get" : {

"operationId" : "providerGetAllPatientAssessment", "produces" : [ "application/json", "application/xml" ], "parameters" : [ {

"name" : "provider-assigning-authority", "in" : "path",

"required" : true, "type" : "string"

}, {

"name" : "provider-id",

"in" : "path", "required" : true, "type" : "string"

}, {

"name" : "assigning-authority", "in" : "path",

"required" : true, "type" : "string"

}, {

"name" : "patient-id",

"in" : "path", "required" : true, "type" : "string"

}, {

"name" : "completed",

"in" : "query", "required" : false, "type" : "boolean"

} ],

"responses" : {

"200" : {

"description" : "successful operation", "schema" : {

"type" : "array", "items" : {

"$ref" : "#/definitions/GenericResourceSupportAssessment"

}

}

}

}

}

},

"/v1/provider/{provider-assigning-authority}/{provider-id}/patient/{assigning-authority}/{patient-id}

/assessment/{assessment-id}" : { "get" : {

"operationId" : "getProviderPatientAssessment", "produces" : [ "application/json", "application/xml" ], "parameters" : [ {

"name" : "provider-assigning-authority", "in" : "path",

"required" : true, "type" : "string"

}, {

"name" : "provider-id",

"in" : "path",

"required" : true, "type" : "string"

}, {

"name" : "assigning-authority", "in" : "path",

"required" : true, "type" : "string"

}, {

"name" : "patient-id",

"in" : "path", "required" : true, "type" : "string"

}, {

"name" : "assessment-id",

"in" : "path", "required" : true, "type" : "string"

} ],

"responses" : {

"200" : {

"description" : "successful operation", "schema" : {

"$ref" : "#/definitions/GenericResourceSupportAssessment"

}

}

}

}

},

"/v1/public/instrument" : { "get" : {

"operationId" : "getInstruments",

"produces" : [ "application/json", "application/xml" ], "responses" : {

"200" : {

"description" : "successful operation", "schema" : {

"type" : "array", "items" : {

"$ref" : "#/definitions/Whitelist"

}

}

}

}

}

},

"/v1/public/recurrence" : { "get" : {

"operationId" : "getRecurrences",

"produces" : [ "application/json", "application/xml" ], "responses" : {

"200" : {

"description" : "successful operation", "schema" : {

"type" : "array", "items" : {

"$ref" : "#/definitions/Recurrence"

}

}

}

}

}

}

},

"definitions" : { "Answer" : {

"type" : "object", "properties" : {

"answerDate" : { "type" : "string"

},

"answerText" : { "type" : "string"

},

"choiceId" : {

"type" : "string"

},

"choiceText" : { "type" : "string"

},

"questionId" : { "type" : "string"

},

"questionText" : { "type" : "string"

},

"responseType" : { "type" : "string"

}

}

},

"Assessment" : { "type" : "object", "properties" : {

"docCreatedDate" : { "type" : "string", "format" : "date-time"

},

"docUpdatedDate" : { "type" : "string", "format" : "date-time"

},

"docCreatedBy" : { "type" : "string"

},

"docLastModifiedBy" : { "type" : "string"

},

"get\_id" : {

"type" : "string"

},

"get\_assignedEventId" : { "type" : "string"

},

"get\_assignmentId" : { "type" : "string"

},

"get\_pastDueEventId" : { "type" : "string"

},

"get\_dueEventId" : { "type" : "string"

},

"get\_missedEventId" : { "type" : "string"

},

"get\_completedByAssessmentId" : { "type" : "string"

},

"archived" : {

"type" : "boolean"

},

"assessmentName" : { "type" : "string"

},

"recurrenceFrequency" : { "type" : "string"

},

"completed" : {

"type" : "boolean"

},

"startDate" : { "type" : "string",

"format" : "date-time"

},

"dueDate" : {

"type" : "string", "format" : "date-time"

},

"endDate" : {

"type" : "string", "format" : "date-time"

},

"feedback" : { "type" : "array", "items" : {

"$ref" : "#/definitions/Feedback"

}

},

"format" : {

"$ref" : "#/definitions/Format"

},

"instructions" : { "type" : "string"

},

"notTaken" : {

"type" : "boolean"

},

"patientDfn" : { "type" : "string"

},

"patientAssignAuth" : { "type" : "string"

},

"patientId" : {

"type" : "string"

},

"providerAssignAuth" : { "type" : "string"

},

"providerId" : { "type" : "string"

},

"station" : {

"type" : "string"

},

"response" : {

"$ref" : "#/definitions/Response"

},

"errorMessage" : { "type" : "string"

},

"severity" : {

"type" : "string"

},

"score" : {

"type" : "integer",

"format" : "int32"

},

"providerDetails" : {

"$ref" : "#/definitions/ProviderDetails"

},

"patientFirstName" : { "type" : "string"

},

"patientLastName" : { "type" : "string"

}

}

},

"AssessmentVoiceInfo" : { "type" : "object", "properties" : {

"scope" : {

"type" : "string"

},

"assessmentName" : { "type" : "string"

},

"lowScore" : {

"type" : "integer",

"format" : "int32"

},

"highScore" : { "type" : "integer",

"format" : "int32"

},

"severity" : {

"type" : "string"

},

"text" : {

"type" : "string"

},

"gender" : {

"type" : "string"

},

"otherNotes" : { "type" : "array",

"items" : {

"type" : "string"

}

},

"comparisonText" : { "type" : "string"

}

},

"xml" : {

"name" : "assessmentVoiceInfo", "namespace" : "https:// DNS.URL"

}

},

"Assignment" : { "type" : "object",

"required" : [ "assessmentName", "clinicId", "clinicName", "get\_whitelistId", "numberOccurrences", "patientAssignAuth", "patientId", "recurrenceFrequency", "startDate" ],

"properties" : { "get\_whitelistId" : {

"type" : "string"

},

"get\_assessmentIds" : { "type" : "array", "items" : {

"type" : "string"

}

},

"assessmentName" : { "type" : "string"

},

"clinicId" : {

"type" : "string"

},

"clinicName" : { "type" : "string"

},

"completed" : {

"type" : "boolean"

},

"instructions" : { "type" : "string"

},

"lastTaken" : { "type" : "string",

"format" : "date-time"

},

"nextDueDate" : { "type" : "string",

"format" : "date-time"

},

"numberOccurrences" : { "type" : "integer",

"format" : "int32", "minimum" : 1

},

"numberRemaining" : { "type" : "integer",

"format" : "int32"

},

"patientAssignAuth" : { "type" : "string"

},

"patientId" : {

"type" : "string"

},

"displayName" : { "type" : "string"

},

"patientDfn" : { "type" : "string"

},

"providerAssignAuth" : { "type" : "string"

},

"providerId" : { "type" : "string"

},

"recurrenceEarly" : { "type" : "integer",

"format" : "int32"

},

"recurrenceFrequency" : { "type" : "string"

},

"recurrenceLate" : { "type" : "integer",

"format" : "int32"

},

"recurrenceOffset" : { "type" : "integer",

"format" : "int32"

},

"startDate" : { "type" : "string",

"format" : "date-time"

},

"station" : {

"type" : "string"

},

"systemError" : { "type" : "string"

},

"totalCompleted" : { "type" : "integer",

"format" : "int32"

},

"validationErrors" : { "type" : "array", "items" : {

"$ref" : "#/definitions/ValidationError"

}

},

"providerDetails" : {

"$ref" : "#/definitions/ProviderDetails"

},

"virtualDeleted" : { "type" : "boolean"

}

},

"xml" : {

"name" : "assignment",

"namespace" : "https:// DNS.URL"

}

},

"AssignmentDue" : { "type" : "object", "properties" : {

"patientId" : {

"type" : "string"

},

"assessmentName" : { "type" : "string"

},

"dueDate" : {

"type" : "string", "format" : "date-time"

},

"providerName" : { "type" : "string"

},

"recurrenceFrequency" : { "type" : "string"

},

"numberRemaining" : { "type" : "integer",

"format" : "int32"

},

"numberOfOccurances" : { "type" : "integer",

"format" : "int32"

}

}

},

"AssignmentDuplicates" : { "type" : "object", "properties" : {

"assignmentId" : {

"duplicates" : { "type" : "array", "items" : {

"$ref" : "#/definitions/GenericResourceSupportAssignment"

}

}

}

},

"AssignmentSet" : { "type" : "object",

"required" : [ "assignmentSet" ], "properties" : {

"assignmentSet" : { "type" : "array", "items" : {

"$ref" : "#/definitions/Assignment"

}

}

},

"xml" : {

"name" : "assignments",

"namespace" : "https:// DNS.URL

"

}

},

"Choice" : {

"type" : "object", "properties" : {

"choiceId" : {

"type" : "string"

},

"text" : {

"type" : "string"

},

"legacyValue" : { "type" : "string"

}

}

},

"Event" : {

"type" : "object", "properties" : {

"get\_assessmentId" : { "type" : "string"

},

"get\_assignmentId" : { "type" : "string"

},

"assessmentName" : { "type" : "string"

},

"recurrenceFrequency" : { "type" : "string"

},

"dueDate" : {

"type" : "string", "format" : "date-time"

},

"errorMessage" : { "type" : "string"

},

"eventType" : {

"type" : "string"

},

"patientAssignAuth" : { "type" : "string"

},

"patientId" : {

"type" : "string"

},

"patientMessage" : { "type" : "string"

},

"patientVirtualDeleted" : { "type" : "boolean"

},

"providerAssignAuth" : { "type" : "string"

},

"providerId" : { "type" : "string"

},

"providerMessage" : { "type" : "string"

},

"providerDetails" : {

"$ref" : "#/definitions/ProviderDetails"

},

"providerVirtualDeleted" : { "type" : "boolean"

},

"numberRemaining" : { "type" : "integer",

"format" : "int32"

},

"endedByProviderAuth" : { "type" : "string"

},

"endedByProviderId" : { "type" : "string"

},

"endedByProviderDetails" : {

"$ref" : "#/definitions/ProviderDetails"

},

"endedOn" : {

"type" : "string", "format" : "date-time"

},

"severity" : {

"type" : "string"

},

"score" : {

"type" : "integer",

"format" : "int32"

},

"providedByProviderAssignAuth" : { "type" : "string"

},

"providedByProviderId" : { "type" : "string"

},

"completedDate" : { "type" : "string", "format" : "date-time"

},

"status" : {

"type" : "string"

},

"alertedByAssessmentId" : { "type" : "string"

},

"patientFirstName" : { "type" : "string"

},

"patientLastName" : { "type" : "string"

}

},

"xml" : {

"name" : "event",

"namespace" : "https:// DNS.URL"

}

},

"Feedback" : { "type" : "object", "properties" : {

"providerId" : { "type" : "string"

},

"assigningAuth" : { "type" : "string"

},

"dateAdded" : { "type" : "string",

"format" : "date-time"

},

"feedbackText" : {

"dateRead" : { "type" : "string",

"format" : "date-time"

},

"providerName" : { "type" : "string"

}

}

},

"FeedbackRequestPayload" : { "type" : "object",

"required" : [ "feedback", "id" ], "properties" : {

"id" : {

"type" : "string"

},

"feedback" : {

"type" : "string"

}

}

},

"Format" : {

"type" : "object", "properties" : {

"assessmentName" : { "type" : "string"

},

"copyrightText" : { "type" : "string"

},

"displayName" : { "type" : "string"

},

"scoreDescriptionPatient" : { "type" : "string"

},

"scoreDescriptionProvider" : { "type" : "string"

},

"scoreMetaDataList" : { "type" : "array", "items" : {

"$ref" : "#/definitions/ScoreMetaData"

}

},

"sections" : { "type" : "array", "items" : {

"$ref" : "#/definitions/FormatSection"

}

}

}

},

"FormatSection" : { "type" : "object", "properties" : {

"dummy" : {

"type" : "boolean"

},

"firstQuestionId" : { "type" : "string"

},

"questions" : { "type" : "array", "items" : {

"$ref" : "#/definitions/Question"

}

},

"sectionCaption" : { "type" : "string"

}

}

},

"GenericResourceSupport" : { "type" : "object", "properties" : {

"links" : {

"type" : "array",

"xml" : {

"name" : "link",

"namespace" : ["http://www.w3.org/2005/Atom"](http://www.w3.org/2005/Atom)

},

"readOnly" : true, "items" : {

"xml" : {

"name" : "link"

},

"$ref" : "#/definitions/Link"

}

}

}

},

"GenericResourceSupportAssessment" : { "type" : "object",

"properties" : { "docCreatedDate" : {

"type" : "string", "format" : "date-time"

},

"docUpdatedDate" : { "type" : "string", "format" : "date-time"

},

"docCreatedBy" : { "type" : "string"

},

"docLastModifiedBy" : { "type" : "string"

},

"get\_id" : {

"type" : "string"

},

"get\_assignedEventId" : { "type" : "string"

},

"get\_assignmentId" : { "type" : "string"

},

"get\_pastDueEventId" : { "type" : "string"

},

"get\_dueEventId" : { "type" : "string"

},

"get\_missedEventId" : { "type" : "string"

},

"get\_completedByAssessmentId" : { "type" : "string"

},

"archived" : {

"type" : "boolean"

},

"assessmentName" : { "type" : "string"

},

"recurrenceFrequency" : { "type" : "string"

},

"completed" : {

"type" : "boolean"

},

"startDate" : { "type" : "string",

"format" : "date-time"

},

"dueDate" : {

"type" : "string", "format" : "date-time"

},

"endDate" : {

"type" : "string", "format" : "date-time"

},

"feedback" : { "type" : "array", "items" : {

"$ref" : "#/definitions/Feedback"

}

},

"format" : {

"$ref" : "#/definitions/Format"

},

"instructions" : { "type" : "string"

},

"notTaken" : {

"type" : "boolean"

},

"patientDfn" : { "type" : "string"

},

"patientAssignAuth" : { "type" : "string"

},

"patientId" : {

"type" : "string"

},

"providerAssignAuth" : { "type" : "string"

},

"providerId" : { "type" : "string"

},

"station" : {

"type" : "string"

},

"response" : {

"$ref" : "#/definitions/Response"

},

"errorMessage" : { "type" : "string"

},

"severity" : {

"type" : "string"

},

"score" : {

"type" : "integer",

"format" : "int32"

},

"providerDetails" : {

"$ref" : "#/definitions/ProviderDetails"

},

"patientFirstName" : { "type" : "string"

},

"patientLastName" : { "type" : "string"

},

"links" : {

"type" : "array", "xml" : {

"name" : "link",

"namespace" : ["http://www.w3.org/2005/Atom"](http://www.w3.org/2005/Atom)

},

"readOnly" : true, "items" : {

"xml" : {

"name" : "link"

},

"$ref" : "#/definitions/Link"

}

}

}

},

"GenericResourceSupportAssessmentVoiceInfo" : { "type" : "object",

"properties" : { "scope" : {

"type" : "string"

},

"assessmentName" : { "type" : "string"

},

"lowScore" : {

"type" : "integer",

"format" : "int32"

},

"highScore" : { "type" : "integer",

"format" : "int32"

},

"severity" : {

"type" : "string"

},

"text" : {

"type" : "string"

},

"gender" : {

"type" : "string"

},

"otherNotes" : { "type" : "array", "items" : {

"type" : "string"

}

},

"comparisonText" : { "type" : "string"

},

"links" : {

"type" : "array", "xml" : {

"name" : "link",

"namespace" : ["http://www.w3.org/2005/Atom"](http://www.w3.org/2005/Atom)

},

"readOnly" : true, "items" : {

"xml" : {

"name" : "link"

},

"$ref" : "#/definitions/Link"

}

}

}

},

"GenericResourceSupportAssignment" : { "type" : "object",

"required" : [ "assessmentName", "clinicId", "clinicName", "get\_whitelistId", "numberOccurrences", "patientAssignAuth", "patientId", "recurrenceFrequency", "startDate" ],

"properties" : { "get\_whitelistId" : {

"type" : "string"

},

"get\_assessmentIds" : { "type" : "array", "items" : {

"type" : "string"

}

},

"assessmentName" : { "type" : "string"

},

"clinicId" : {

"type" : "string"

},

"clinicName" : { "type" : "string"

},

"completed" : {

"type" : "boolean"

},

"instructions" : { "type" : "string"

},

"lastTaken" : { "type" : "string",

"format" : "date-time"

},

"nextDueDate" : { "type" : "string",

"format" : "date-time"

},

"numberOccurrences" : { "type" : "integer",

"format" : "int32", "minimum" : 1

},

"numberRemaining" : { "type" : "integer",

"format" : "int32"

},

"patientAssignAuth" : { "type" : "string"

},

"patientId" : {

"type" : "string"

},

"displayName" : { "type" : "string"

},

"patientDfn" : { "type" : "string"

},

"providerAssignAuth" : { "type" : "string"

},

"providerId" : { "type" : "string"

},

"recurrenceEarly" : { "type" : "integer",

"format" : "int32"

},

"recurrenceFrequency" : { "type" : "string"

},

"recurrenceLate" : { "type" : "integer",

"format" : "int32"

},

"recurrenceOffset" : { "type" : "integer",

"format" : "int32"

},

"startDate" : { "type" : "string",

"format" : "date-time"

},

"station" : {

"type" : "string"

},

"systemError" : { "type" : "string"

},

"totalCompleted" : { "type" : "integer",

"format" : "int32"

},

"validationErrors" : { "type" : "array", "items" : {

"$ref" : "#/definitions/ValidationError"

}

},

"providerDetails" : {

"$ref" : "#/definitions/ProviderDetails"

},

"virtualDeleted" : { "type" : "boolean"

},

"links" : {

"type" : "array", "xml" : {

"name" : "link",

"namespace" : ["http://www.w3.org/2005/Atom"](http://www.w3.org/2005/Atom)

},

"readOnly" : true, "items" : {

"xml" : {

"name" : "link"

},

"$ref" : "#/definitions/Link"

}

}

}

},

"GenericResourceSupportAssignmentDue" : { "type" : "object",

"properties" : { "patientId" : {

"type" : "string"

},

"assessmentName" : { "type" : "string"

},

"dueDate" : {

"type" : "string", "format" : "date-time"

},

"providerName" : { "type" : "string"

},

"recurrenceFrequency" : { "type" : "string"

},

"numberRemaining" : { "type" : "integer",

"format" : "int32"

},

"numberOfOccurances" : { "type" : "integer",

"format" : "int32"

},

"links" : {

"type" : "array", "xml" : {

"name" : "link",

"namespace" : ["http://www.w3.org/2005/Atom"](http://www.w3.org/2005/Atom)

},

"readOnly" : true, "items" : {

"xml" : {

"name" : "link"

},

"$ref" : "#/definitions/Link"

}

}

}

},

"GenericResourceSupportEvent" : { "type" : "object",

"properties" : { "get\_assessmentId" : {

"type" : "string"

},

"get\_assignmentId" : { "type" : "string"

},

"assessmentName" : { "type" : "string"

},

"recurrenceFrequency" : { "type" : "string"

},

"dueDate" : {

"type" : "string", "format" : "date-time"

},

"errorMessage" : { "type" : "string"

},

"eventType" : {

"type" : "string"

},

"patientAssignAuth" : { "type" : "string"

},

"patientId" : {

"type" : "string"

},

"patientMessage" : { "type" : "string"

},

"patientVirtualDeleted" : { "type" : "boolean"

},

"providerAssignAuth" : { "type" : "string"

},

"providerId" : { "type" : "string"

},

"providerMessage" : { "type" : "string"

},

"providerDetails" : {

"$ref" : "#/definitions/ProviderDetails"

},

"providerVirtualDeleted" : { "type" : "boolean"

},

"numberRemaining" : { "type" : "integer",

"format" : "int32"

},

"endedByProviderAuth" : { "type" : "string"

},

"endedByProviderId" : { "type" : "string"

},

"endedByProviderDetails" : {

"$ref" : "#/definitions/ProviderDetails"

},

"endedOn" : {

"type" : "string", "format" : "date-time"

},

"severity" : {

"type" : "string"

},

"score" : {

"type" : "integer",

"format" : "int32"

},

"providedByProviderAssignAuth" : { "type" : "string"

},

"providedByProviderId" : { "type" : "string"

},

"completedDate" : { "type" : "string", "format" : "date-time"

},

"status" : {

"type" : "string"

},

"alertedByAssessmentId" : { "type" : "string"

},

"patientFirstName" : { "type" : "string"

},

"patientLastName" : { "type" : "string"

},

"links" : {

"type" : "array", "xml" : {

"name" : "link",

"namespace" : ["http://www.w3.org/2005/Atom"](http://www.w3.org/2005/Atom)

},

"readOnly" : true, "items" : {

"xml" : {

"name" : "link"

},

"$ref" : "#/definitions/Link"

}

}

}

},

"IENAndStationNumber" : { "type" : "object",

"required" : [ "ien", "stationNumber" ], "properties" : {

"ien" : {

"type" : "string"

},

"stationNumber" : { "type" : "string"

}

},

"xml" : {

"name" : "ienAndStationNumber", "namespace" : "https:// DNS.URL"

}

},

"Link" : {

"type" : "object", "properties" : {

"rel" : {

"type" : "string", "xml" : {

"attribute" : true

}

},

"href" : {

"type" : "string", "xml" : {

"attribute" : true

}

}

}

},

"ProviderDetails" : { "type" : "object", "properties" : {

"id" : {

"$ref" : "#/definitions/IENAndStationNumber"

},

"fullName" : {

"type" : "string"

}

},

"xml" : {

"name" : "providerDetails", "namespace" : "https:// DNS.URL"

}

},

"Question" : { "type" : "object", "properties" : {

"choices" : { "type" : "array", "items" : {

"$ref" : "#/definitions/Choice"

}

},

"choiceType" : { "type" : "string"

},

"introText" : {

"type" : "string"

},

"questionId" : { "type" : "string"

},

"questionText" : { "type" : "string"

},

"responseType" : { "type" : "string"

},

"rules" : {

"type" : "array", "items" : {

"$ref" : "#/definitions/Rule"

}

}

}

},

"Recurrence" : { "type" : "object", "properties" : {

"frequency" : {

"type" : "string"

},

"offset" : {

"type" : "integer",

"format" : "int32"

},

"early" : {

"type" : "integer",

"format" : "int32"

},

"late" : {

"type" : "integer",

"format" : "int32"

},

"errorMessage" : { "type" : "string"

}

},

"xml" : {

"name" : "recurrence",

"namespace" : "https:// DNS.URL"

}

},

"ResourceSupport" : { "type" : "object", "properties" : {

"links" : {

"type" : "array", "xml" : {

"name" : "link",

"namespace" : ["http://www.w3.org/2005/Atom"](http://www.w3.org/2005/Atom)

},

"readOnly" : true, "items" : {

"xml" : {

"name" : "link"

},

"$ref" : "#/definitions/Link"

}

}

}

},

"Response" : { "type" : "object", "properties" : {

"assessmentName" : { "type" : "string"

},

"clinicId" : {

"type" : "string"

},

"clinicName" : { "type" : "string"

},

"dateSubmitted" : { "type" : "string", "format" : "date-time"

},

"numberOfQuestionsAnswered" : { "type" : "integer",

"format" : "int32"

},

"scores" : {

"type" : "array", "items" : {

"$ref" : "#/definitions/Score"

}

},

"sections" : { "type" : "array", "items" : {

"$ref" : "#/definitions/ResponseSection"

}

},

"vistaAdministrationId" : { "type" : "string"

}

}

},

"ResponseSection" : { "type" : "object", "properties" : {

"answers" : { "type" : "array", "items" : {

"$ref" : "#/definitions/Answer"

}

},

"dummy" : {

"type" : "boolean"

},

"sectionCaption" : { "type" : "string"

}

}

},

"Rule" : {

"type" : "object", "properties" : {

"indexOperator" : { "type" : "string"

},

"indexQuestionId" : { "type" : "integer",

"format" : "int32"

},

"indexValue" : { "type" : "integer",

"format" : "int32"

},

"ruleId" : {

"type" : "integer",

"format" : "int32"

},

"skippedQuestionIds" : { "type" : "array", "items" : {

"type" : "integer",

"format" : "int32"

}

}

}

},

"Score" : {

"type" : "object", "properties" : {

"rawScore" : {

"type" : "string"

},

"scaleName" : {

"type" : "string"

},

"maxScorePossible" : { "type" : "string"

}

}

},

"ScoreMetaData" : { "type" : "object", "properties" : {

"scaleName" : {

"type" : "string"

},

"defaultScore" : { "type" : "boolean"

},

"symptomMonitoring" : { "type" : "boolean"

},

"highRiskAlertValue" : { "type" : "string"

},

"maxPossibleScore" : { "type" : "integer",

"format" : "int32"

}

},

"xml" : {

"name" : "event",

"namespace" : "https:// DNS.URL"

}

},

"ValidationError" : { "type" : "object", "properties" : {

"fieldName" : {

"type" : "string"

},

"message" : {

"type" : "string"

}

}

},

"Whitelist" : { "type" : "object", "properties" : {

"assessmentName" : { "type" : "string"

},

"assessmentVistaName" : { "type" : "string"

},

"displayName" : { "type" : "string"

},

"assessmentDescription" : { "type" : "string"

},

"scoreDescriptionPatient" : { "type" : "string"

},

"scoreDescriptionProvider" : { "type" : "string"

},

"scoreMetaDataList" : { "type" : "array", "items" : {

"$ref" : "#/definitions/ScoreMetaData"

}

},

"errorMessage" : { "type" : "string"

}

},

"xml" : {

"name" : "whitelist",

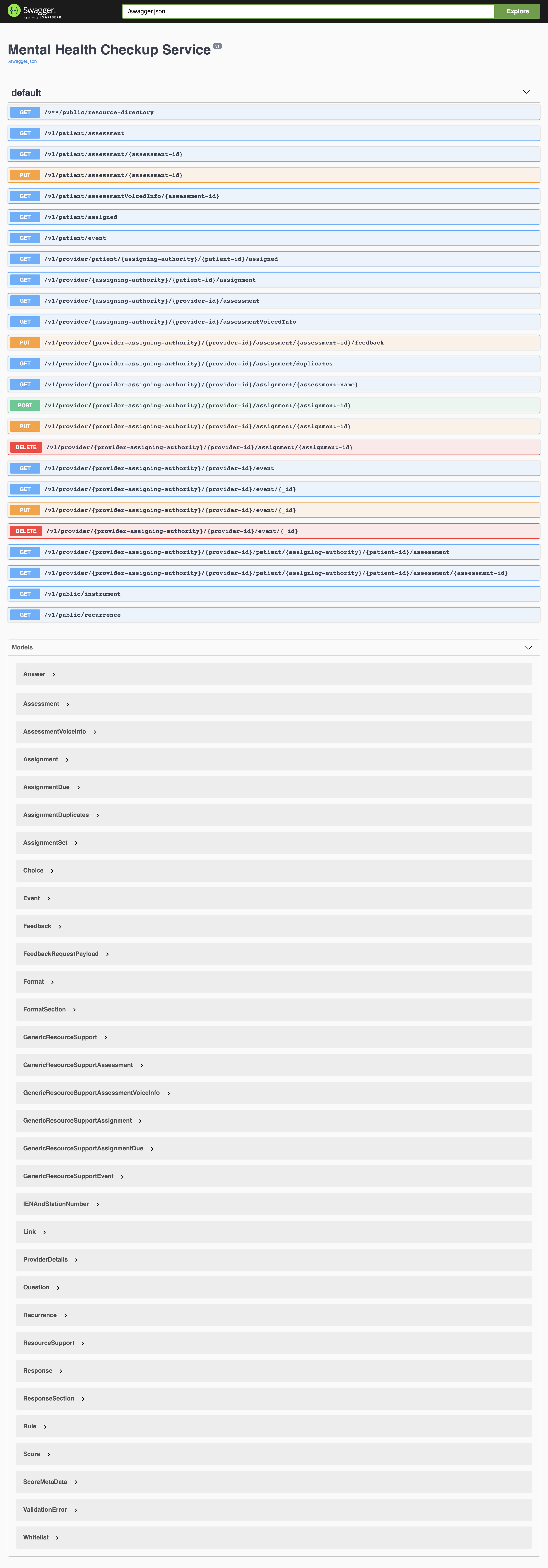
"namespace" : "https:// DNS.URL"

}

}

}

}



### Expected concurrent and maximum size of the user base

|  |  |  |  |
| --- | --- | --- | --- |
| **Metric** | **At Startup** | **Within 6 Months** | **Full Load** |
| Number of Users - Total | 500 | 10,000 | 40,000 - 100,000 |
| Number of Users - Veteran/Caregiver | 250 | 10,000 | 20,000 - 50,000 |
| Number of Users - Staff/Provider | 250 | 10,000 | 20,000 - 50,000 |
| Number of Concurrent Users - Total | 100 | 500 | 1000 |
| Number of Concurrent Users - Veteran/Caregiver | 50 | 250 | 500 |
| Number of Concurrent Users - Staff/Provider | 50 | 250 | 500 |

**Developer & PM Contact Information**

|  |  |  |
| --- | --- | --- |
| **Developer Name/Point of Contact (POC)** | **VA E-Mail Address** | **Phone Number** |
| Ken Fang | [PII](mailto:PIIv) | PII |
| **Developer Organization/Company** | **Contract Start Date** | **Contract End Date** |
| Ironbow / Mobomo, LLC | April 26, 2018 | February 28, 2019 |
| **Web and Mobile Solutions PM or POC** | **VA E-Mail Address** | **Phone Number** |
| Eric Guidash | [PII](mailto:PII) | PII |
| **VA Product Development PM or POC** | **VA E-Mail Address** | **Phone Number** |
| Mark Ennis | [PII](mailto:PII) | PII |