HCMI
Software Requirements

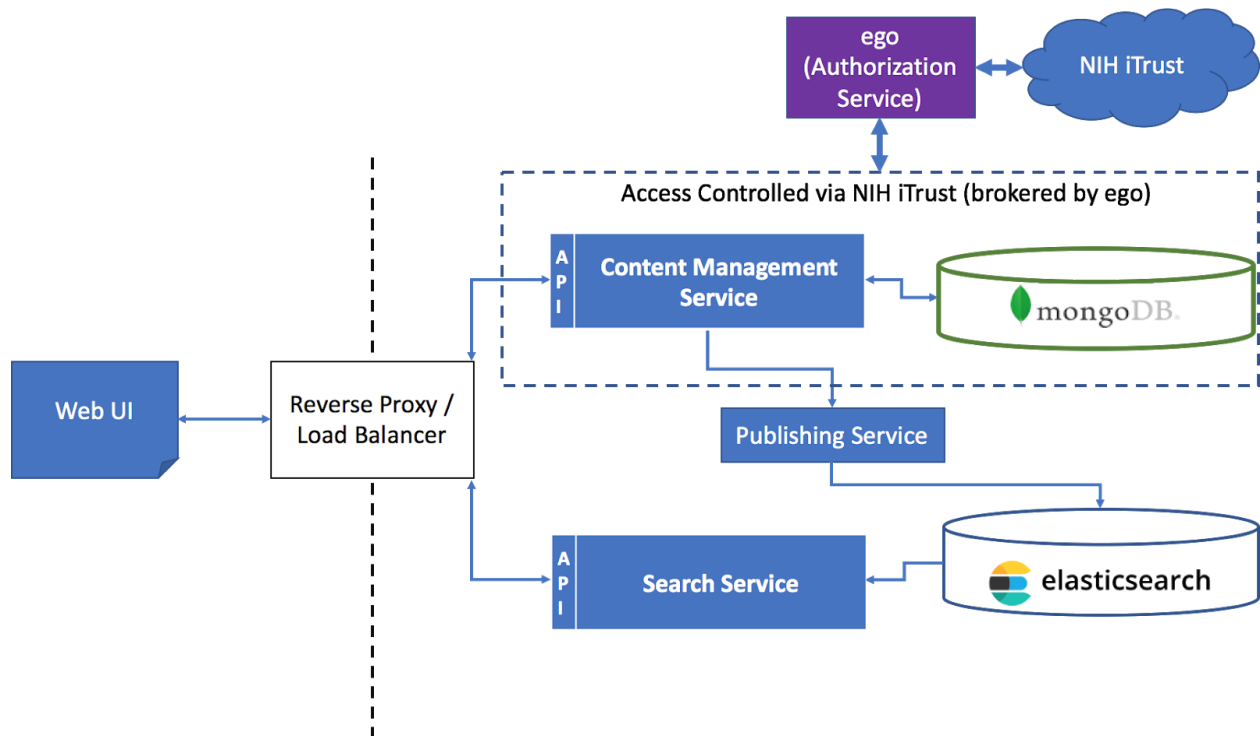# Version History

Version	Implemented By	Revision Date	Description of Change
1.0	OICR	April 27th, 2018	Initial Version
1.1	OICR	May 9th, 2018	Updated installation instructions
1.2	OICR	Sep 20, 2018	Added System Configuration requirements

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Architecture Overview

System architecture diagram

The HCMI Catalog will be composed of four loosely-coupled micro services. These services will be seamlessly integrated with Web UI.

Content Management, Publishing and Search Service will be Web based APIs. *An Apache Server will be used to proxy calls from web to these Services.*
Another Apache server will be used to serve Web UI which is composed static HTML files and Javascript.

More details about Architecture can be found on Pages: 5 and 6 of HCMI Architecture - v1.1 document.

Software/System Requirements:

1. Standard NIH Linux Installation
2. All Application server instances need to have:
   a. [Node v 8.0+, NPM](), [PM2](). [Yarn](), Oracle Java 8, Maven 3.5.x
3. Two Database servers: ElasticSearch v6.0+ and MongoDB
4. (Potentially, depends on NIH iTrust integration details) Another database server: Postgres 9.5.x
5. All Web server instances will be Apache web servers

More details on number of each instance type for each dev/staging/prod can be found on Pages 8 and 9 of [HCMI Architecture - v1.1]() document.

Software/System Configuration Requirements:

HCMI Catalog Admins need to upload data from Google sheets. In order to support this feature; application needs to configured as an OAuth 2.0 client for Google.

The objective is to generate a Google Client ID and Secret (preferably one for each environment : dev, staging, prod). Application Infrastructure team will need to manage this configuration. Infrastructure team will need to:

1) Generate client ids and secrets by following these steps:

   https://support.google.com/googleapi/answer/6158849?hl=en&ref_topic=7013279

   Authorized Javascript origins should be:
   https://hcmi-searchable-catalog-dev.nci.nih.gov/

   Authorized Redirect URI: Please leave blank

2) Fill in OAuth consent screen
   a) Provide Project Name
   b) Provide NIH Privacy policy URL

3) Apply for domain verification in the Domain Verification tab

4) Configure application to use these credentials:
   a) Update configuration for UI component:
      ○ Set value of "REACT_APP_GOOGLE_CLIENT_ID" in application's UI configuration as the client id generated in Step 1
   b) Update configuration for CMS component:
      ○ Set CLIENT_ID in CMS configuration as the client id generated in Step 1
      ○ Set CLIENT_SECRET in CMS configuration as the client secret generated in Step 1

NOTE: Depending upon NIH's policy, we can perform Step 2 and 3 only for prod i.e. only apply for verification of production site.