**PHAC Data Catalog Project**

**DRUPAL good-fit analysis**

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| **Project Description**  A corporate data catalogue will facilitate the efficient tracking, searching and reporting on PHAC’s data holdings. It will enable PHAC to identify areas of duplication and underutilization to achieve more efficient use of government resources. At present, there are the occasional references to inventories for research or surveillance, but there is nothing that encompasses all of PHACs data holdings. These ad-hoc tables often have limited information about the data source other than its existence, and it is rare that contact information for the data administrators is included.  This tool can serve multiple needs amongst different layers within the Agency, it needs to be customizable to the varied user needs, accessible to all internal staff.  This PHAC Data Catalog project was incorporated as a deliverable in the first phase of the PHAC Data Strategy Implementation Plan and was approved by the PHAC Executive Committee on September 18th, 2019. The PHAC Data Strategy can be found at <https://www.gcpedia.gc.ca/wiki/PHACDataStrategy>. | | |
| **Functional Requirement Number** | **High Level Requirement** | **Drupal Capabilities** |
| REQ-1 | Collect and Display meta data | Yes – Meta data fields need to be identified |
| REQ-2 | Audit | Maybe – Need more information on the track changes workflow. Also requires a full list audits and reports. Drupal is not the best to run ad-hoc, needs to be canned reports. |
| REQ-3 | Search | Yes, will need the complete list of filters/radio selection. |
| REQ-4 | Request Form | Yes |
| REQ-5 | Add/Remove/Update Data Listings | Yes |
| REQ-6 | Add/Edit/Remove variables | Yes – if these are related to pulldown menu items. Need further clarification on the variables. |
| REQ-7 | Export | Yes, but need the list of variables to export. Free text variables are more difficult to export, requires customization. |
| REQ-8 | Web Analytics | Yes |
| REQ-9 | Data Listing Migration | Yes - this might require customization. Drupal does have a Batch module which might need tweaking depending on the data. |
| REQ-10 | Internal Website | Yes |
| REQ-11 | User Roles | Yes - Drupal automatically creates an administrator, the other roles require customization but this is standard as each system is unique. Easy to configure. |
| REQ-12 | Data Duplication Warning | Yes - Constraints could be implemented on data entry fields |

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| **Non-Functional Requirement Number** | **High Level Requirement** | **Drupal Capabilities** |
| NFR-1 | User authentication | Yes |
| NFR- 2 | Remote Access - allows for teleworking | Yes. Additional login requirements could be implemented for users outside the network |
| NFR- 3 | Browser Support | Yes |
| NFR- 4 | Bilingual UI | Yes |
| NFR- 5 | System Restoration / Backup - restoration in more than 7 days is acceptable. | Yes – this is also linked to the system architecture |
| NFR- 6 | User Guide | Outside of Drupal but this content could be made available within the system. |
| NFR- 7 | System Availability | Yes, pending clarification of definition of 24/7. Definition of high availability is provided at the end of this document |
| NFR- 8 | Search Request per Day | Yes |
| NFR- 9 | Number of users | Drupal can handle a large number of users...but to be sure...The number of concurrent users is required, as well as a breakdown of how many are heavy, medium or low users. Is this number for authenticated users? |
| NFR- 10 | IT Security | This falls outside of Drupal as a solution and more about the environments, firewall settings and other restrictions on the environment itself. |
| NFR-11 | Data Loss Restoration | Yes, same as NF Req#5 |
| NFR- 12 | Detect Unusual Change | This is related to IT security not Drupal specific |

**Definition of High availability**

Five-nines or 99.999% **availability** means 5 minutes, 15 seconds or less of downtime in a year. ... Otherwise, four nines or **99.99**% **availability** allows 52 minutes, 36 seconds downtime per year. Three nines or 99.9% **availability** allows 8 hours, 46 minutes downtime per year.

**Back up and recovery for Azure applications**

<https://docs.microsoft.com/en-us/azure/architecture/framework/resiliency/backup-and-recovery>

**Other Canadian Government Departments who uses Drupal**

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| Prime Minister of Canada | live | <https://pm.gc.ca/> |
| Open Data Canada - data.gc.ca | live | <https://open.canada.ca/> |
| Public Works and Government Services Canada (PWGSC) - Buy and Sell | live | [https://buyandsell.gc.ca](http://buyandsell.gc.ca/) |
| Royal Canadian Mounted Police (RCMP) | live | [https://rcmp-grc.gc.ca](http://rcmp-grc.gc.ca/) |
| Ministry of Transport, Infrastructure and Communities - Canada Lands Company (CLC) | live | <https:///www.clc.ca/> |
| Office of the Public Sector Integrity Commissioner of Canada | live | <https://www.psic.gc.ca/> |
| Canadian Museum For Human Rights | live | <https://www.humanrightsmuseum.ca/> |
| Canadian Tourism Commission - Destination Canada | live | <https://en.destinationcanada.com/> |
| Canadian Tourism Commission - Keep Exploring | live | <https://us-keepexploring.canada.travel/> |
| Canadian Museum of Nature | live | <https://nature.ca/> |
| Canadian Transportation Agency | live | <https://www.otc-cta.gc.ca/> |
| Natural Resources Canada (NRCan) | live | <https://oee.nrcan.gc.ca/> & <http://geoapps.nrcan.gc.ca/> & <http://www.nrcan.gc.ca/earth-sciences/> |
| Department of National Defence (DND) | live | Intranet only |
| Statistics Canada | live | Intranet and parts of <https://www.statcan.gc.ca/> |
| Canada School of Public Service | live | Intranet only |
| Canada Police College | live | <https://www.cpc-ccp.gc.ca> |
| VIA Rail | live | <https://www.viarail.ca> |
| Telefilm Canada | live | <https://telefilm.ca> |
| Pier 21 | live | <https://www.pier21.ca> |
| Canadian Security Intelligence Service | live | <https://csiscareers.ca> |
| Communications Security Establishment (CSE) | live | <https://www.cse-cst.gc.ca/> |
| Nation Research Council Canada (NRC) | live | Intranet |
| Health Canada | live | Intranet MySource  Public Release of Clinical Information (PRCI) external:  <https://clinical-information.canada.ca/search/ci-rc>  PRCI internal: <https://prciwts-en.hc-sc.gc.ca/en/>  DHPID...a system within HPFB |