In order to validate the correct functionality of Data Harmonization Portal the listed Test Scenarios were executed that fulfill the following requirements. The steps for each test , the expected and actual results are described in detail in the file ‘DHPortal - Test Cases’ that accompanies this file.

**Requirements:**

1. Log in and register functionalities.
2. Update the visualized circle packing and meta-data accordingly.
3. Locally upload and save JSON or CSV files.
4. Load CSV and JSON files from Friend's Public Folder
5. Load CSV and JSON files from Server's Public or Private folder.
6. Harmonize data.
7. Add and Remove Friends from the User's Community

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| --- | --- | --- |
| **Scenario Id** | **Test Scenario** | **No of test cases** |
| S001 | Validate user access in DHPortal | 4 |
| S002 | Validate circle packing updating | 3 |
| S003 | Verify meta-data loading | 4 |
| S004 | Validate data harmonization | 4 |
| S005 | Validate community members' correct handling | 2 |

In order to validate the performance and efficiency of MIPMap schema mapping and data exchange tool the tests described in ‘MIPMap - Performance Tests’ file were executed. The data sets used for these tests are not included due to size reasons, but are available if asked.