**Mendix Unit Test Framework capability:**

1. Provides ability to manage and run unit tests
2. Supports tests created using microflows and JUnit
3. A few ready-made microflows for use in test flows: asserts and reportStep
4. Provides remote running tests capability via API
5. Supports deploying to Eclipse to create custom java actions

**Available documentation:**

<https://appstore.home.mendix.com/index3.html>

**Installation dependencies:**

1. Community Commons module
2. Junit 4.x jar if using Junit

**Install steps:**

1. Download module from appstore (v5.0)
2. Map module role ‘Test Runner’ to your user role
3. Add the UnitTestOverview to navigation structure
4. (Optional for including Junit tests into view): Set UnitTesting.FindJUnitTests constant to true
5. (Optional for remote test run): Add Startup flow to model startup sequence
6. (Optional for remote test run): Set 2 remoteAPI constants (See config in Unit test module)
7. (Optional for remote test run): when hosting on cloud or premise, open a request handler on unittest/path
8. Assign the layout of the page to the layout of the application

**Creating tests:**

Microflow tests:

1. Must start with UT\_ or Test\_
2. A test does not have input parameters
3. Result types: Empty result type is considered successful, a non-empty string result type is considered fail, or boolean result type
4. ReportSteps: Use to track and trace. Only last successful step is reported and reflected on the test run result screen.

Junit, Nunit, Selenium tests plugins available on marketplace.

**Available tests:**

See available tests by searching ‘Test\_’ in Mendix.

Remaining:

1. Identify validation areas

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Aspects** | **Completeness** | **Uniqueness** | **Validity** | **Consistency** | **More?** |
| *Explanation* | *(Are all data sets and items recorded?)* | *(Nothing is recorded more than once based on how that thing is identified.)* | *(Does the data match the rules? Syntax, definition.)* | *(Can we match the data across?)* |  |
| Domain A | Not every participation has a license attached / orphan records | Compare BK of DWH and if theres any duplicates in Mendix based on these keys |  |  |  |
| Domain B |  |  |  |  |  |
| .. |  |  |  |  |  |