

Computer Database Test Case specification

ID: TC001

Name: Adding a valid entry to the database

Pre-conditions: -

Input specifications:

- Valid computer name (Any string value),
- Valid introduction date (in format 'yyyy-MM-dd'),
- Valid discontinuation date (in format 'yyyy-MM-dd'),
- Valid company name (choice from the dropdown)

Output Specifications:

A valid entry is present and queryable in the database with the input elements as properties.

Intercase dependencies: TC002

Environmental needs:

- Browser
- Read-write access to Computer Database
- Connection to the database
- Test data source (see Test Procedure Specification document for the related TC)

Steps:

- 1 Click on “Add a new computer” button
- 2 On the loaded page, titled “Add a computer”, enter a name to the field “Computer name” (e.g. “TestComputer001”)
- 3 Add a valid date to the “Introduced date” field, in the specified format (e.g. “1999-01-01”)
- 4 Add a valid date to the “Discontinued date” field, which is past the entered introduction date (e.g. “2018-01-01”)
- 5 Select a company from the dropdown field marked as “Company” (e.g. “Apple, Inc.”)
- 6 Press on the button marked as “Create this computer”

Expected results:

- If accessing from the web portal, the toast message will be present about the success. “Done! Computer TestComputer001 has been created”
- The entry is present in the database (can be verified by TC002)

ID: TC002

Name: Reading a valid element from the database

Pre-conditions:

A valid entry is present in the database (e.g. TC001 has been run).

Input specifications: The computer name of the existing element in the database

Output Specifications: Valid entry retrieved and shown with its fields

Intercase dependencies: TC001

Environmental needs:

- Browser
- Read-write access to Computer Database
- Connection to the database
- Test data source (see Test Procedure Specification document for the related TC)

Steps:

- 1 Click on the filter textfield, and type the computer name of the existing entry (e.g. "TestComputer001").
- 2 Press on "Filter by name" button

Expected results:

The specified element is presented with its fields.

ID: TC003a

Name: Updating the field “Computer name” of a valid entry in the database with another valid entry

Pre-conditions:

A valid entry is present in the database (e.g. TC001 has been run).

Input specifications:

Valid computer name (Any string value)

Output Specifications: The given entry will have a new value as computer name.

Intercase dependencies: TC001

Environmental needs:

- Browser
- Read-write access to Computer Database
- Connection to the database
- Test data source (see Test Procedure Specification document for the related TC)

Steps:

- 1 Click on the filter textfield, and type the computer name of the existing entry (e.g. "TestComputer001").
- 2 Press on “Filter by name” button
- 3 Select the presented queried entry
- 4 Give a new, value to the field “Computer name”, e.g. “TestComputer002”
- 5 Verify, that there is no such button as “Create this computer”
- 6 Click on the button titled “Save this computer”

Expected results:

- The computer database web interface with the toast message: “Done! Computer TestComputer002 has been updated!”
- The entry is updated in the database
- Also, element is queryable; if putting the computer name in the present search field, and pressing “Filter by name”, the added entry will be shown. (Verified by TC002)

ID: TC003b

Name: Updating the field “Introduced date” of a valid entry in the database with another valid entry

Pre-conditions: A valid entry is present in the database (e.g. TC001 has been run).

Input specifications: Valid date in the specified format ('yyyy-MM-dd')

Output Specifications: The given entry will have a new value in “Introduced name” field.

Intercase dependencies: TC001

Environmental needs:

- Browser
- Read-write access to Computer Database
- Connection to the database
- Test data source (see Test Procedure Specification document for the related TC)

Steps:

- 1 Click on the filter textfield, and type the computer name of the existing entry (e.g. "TestComputer001").
- 2 Press on “Filter by name” button
- 3 Select the presented queried entry
- 4 Give a new, value to the field “Introduced date”, e.g. “1995-01-01”
- 5 Verify, that there is no such button as “Create this computer”
- 6 Click on the button titled “Save this computer”

Expected results:

- The computer database web interface with the toast message: “Done! Computer TestComputer002 has been updated!”
- The entry is updated in the database
- Also, element is queryable; if putting the computer name in the present search field, and pressing “Filter by name”, the added entry will be shown. (Verified by TC002)

ID: TC003c

Name: Updating the field “Discontinued date” of a valid entry in the database with another valid entry

Pre-conditions: A valid entry is present in the database (e.g. TC001 has been run).

Input specifications: Valid date in the specified format ('yyyy-MM-dd')

Output Specifications: The given entry will have a new value in “Discontinued name” field.

Intercase dependencies: TC001

Environmental needs:

- Browser
- Read-write access to Computer Database
- Connection to the database
- Test data source (see Test Procedure Specification document for the related TC)

Steps:

- 1 Click on the filter textfield, and type the computer name of the existing entry (e.g. "TestComputer001").
- 2 Press on “Filter by name” button
- 3 Select the presented queried entry
- 4 Give a new, value to the field “Discontinued date”, e.g. “2016-01-01”
- 5 Verify, that there is no such button as “Create this computer”
- 6 Click on the button titled “Save this computer”

Expected results:

- The computer database web interface with the toast message: “Done! Computer TestComputer002 has been updated!”
- The entry is updated in the database
- Also, element is queryable; if putting the computer name in the present search field, and pressing “Filter by name”, the added entry will be shown. (Verified by TC002)

ID: TC003d

Name: Updating the field “Company” of a valid entry in the database with another valid entry

Pre-conditions: A valid entry is present in the database (e.g. TC001 has been run).

Input specifications: A valid element from the manufacturer’s list

Output Specifications: The given entry will have a new value in “Company” field.

Intercase dependencies: TC001

Environmental needs:

- Browser
- Read-write access to Computer Database
- Connection to the database
- Test data source (see Test Procedure Specification document for the related TC)

Steps:

- 1 Click on the filter textfield, and type the computer name of the existing entry (e.g. “TestComputer001”).
- 2 Press on “Filter by name” button
- 3 Select the presented queried entry
- 4 Give a new, value to the field “Company” (e.g. “IBM”)
- 5 Verify, that there is no such button as “Create this computer”
- 6 Click on the button titled “Save this computer”

Expected results:

- The computer database web interface with the toast message: “Done! Computer TestComputer002 has been updated!”
- The entry is updated in the database
- Also, element is queryable; if putting the computer name in the present search field, and pressing “Filter by name”, the added entry will be shown. (Verified by TC002)

ID: TC004

Name: Adding a new element with the same values to the database (**note: as the system currently works, no fields are unique. Assuming this, the IDs are unique and hidden.**)

Pre-conditions:

A valid entry is present in the database (TC001 has been run).

Input specifications:

Having the values of the already existing entry:

- Valid computer name,
- Valid introduction date (in format 'yyyy-MM-dd'),
- Valid discontinuation date (in format 'yyyy-MM-dd'),
- Valid company name (choice from the dropdown)

Output Specifications: Another entry in the database with the given values

Inter-case dependencies: TC001, TC002

Environmental needs:

- Browser
- Read-write access to Computer Database
- Connection to the database
- Test data source (see Test Procedure Specification document for the related TC)

Steps:

- 1 Click on “Add a new computer” button
- 2 On the loaded page, titled “Add a computer”, enter the given name to the field “Computer name” (e.g. “TestComputer001”)
- 3 Add the given valid date to the “Introduced date” field, in the specified format (e.g. “1999-01-01”)
- 4 Add the given valid date to the “Discontinued date” field, which is past the entered introduction date (e.g. “2018-01-01”)
- 5 Select the specified company from the dropdown field marked as “Company” (e.g. “Apple, Inc.”)

Press on the button marked as “Create this computer”.

Expected results:

- If accessing from the web portal, the toast message will be present about the success. “Done! Computer TestComputer001 has been created”.
- The entry is present in the database
- As can be verified by TC002, there will be 2 elements listed with the same values, when querying.

ID: TC005

Name: Deleting an entry from the database

Pre-conditions:

A valid entry is present in the database (e.g. TC001 has been run), and the element is identifiable (for the case of deletion)

Input specifications: computer name value of the entry

Output Specifications: the element will be removed from the database

Inter-case dependencies: TC006

Environmental needs:

- Browser
- Read-write access to Computer Database
- Connection to the database
- Test data source (see Test Procedure Specification document for the related TC)

Steps:

- 1 Click on the filter textfield, and type the computer name of the existing entry (e.g. "TestComputer001").
- 2 Press on "Filter by name" button
- 3 Select the presented entry
- 4 Press on the button "Delete this computer"

Expected results:

- Toast message is present with the message: "Done! Computer has been deleted" on the top of the page
- The given entry will not be present in the database anymore (can be verified by TC006)

ID: TC006

Name: Querying a non-existent element from the database

Pre-conditions:

Either the database is empty, or we know of a computer name, which is not present in the database.

Input specifications: A computer name (which is not associated with any current valid entries)

Output Specifications: No results returned by the search

Intercase dependencies: -

Environmental needs:

- Browser
- Read-write access to Computer Database
- Connection to the database
- Test data source (see Test Procedure Specification document for the related TC)

Steps:

- 1 Click on the filter textfield, and type the computer name of the non-existing entry (e.g. "TestComputer003").
- 2 Press on "Filter by name" button

Expected results:

- Message "No computers found" is presented on screen (the query results with 0 elements)

ID: TC007a

Name: Updating a valid entry's "Introduced date" in the database with an invalid format element

Pre-conditions: A valid entry is present in the database (e.g. TC001 has been run).

Input specifications: Any value which is not in the specified date ('yyyy-MM-dd') format

Output Specifications: The element to-be-updated remains unchanged

Intercase dependencies: TC001

Environmental needs:

- Browser
- Read-write access to Computer Database
- Connection to the database
- Test data source (see Test Procedure Specification document for the related TC)

Steps:

- 1 Click on the filter textfield, and type the computer name of the existing entry (e.g. "TestComputer001")
- 2 Press on "Filter by name" button
- 3 Click on the queried presented element
- 4 Give a new, value to the field "Introduced date", e.g. "BlahBlah"
- 5 Verify, that there is no such button as "Create this computer"
- 6 Click on the button titled "Save this computer"

Expected results:

- The alert will be presented in the form of red outline around the "Introduced date" field
- The element is not saved in the database, after pressing "Cancel", and querying the element (TC002), the original values will be present

ID: TC007b

Name: Updating a valid entry's "Discontinued date" in the database with an invalid format element

Pre-conditions: A valid entry is present in the database (e.g. TC001 has been run).

Input specifications: Any value which is not in the specified date ('yyyy-MM-dd') format

Output Specifications: The element to-be-updated remains unchanged

Intercase dependencies: TC001

Environmental needs:

- Browser
- Read-write access to Computer Database
- Connection to the database
- Test data source (see Test Procedure Specification document for the related TC)

Steps:

- 1 Click on the filter textfield, and type the computer name of the existing entry (e.g. "TestComputer001")
- 2 Press on "Filter by name" button
- 3 Click on the queried presented element
- 4 Give a new, value to the field "Discontinued date", e.g. "BlahBlah"
- 5 Verify, that there is no such button as "Create this computer"
- 6 Click on the button titled "Save this computer"

Expected results:

- The alert will be presented in the form of red outline around the "Discontinued date" field
- The element is not saved in the database, after pressing "Cancel", and querying the element (TC002), the original values will be present

ID: TC008 (note: as I see, this is currently not implemented, but worth to check generally)

Name: Updating a valid entry's "Introduced date" in the database with a date which is in the future

Purpose: To validate date rules

Pre-conditions: A valid entry is present in the database (e.g. TC001 has been run).

Input specifications: A date value which is in the future in the specified ('yyyy-MM-dd') format

Output Specifications: The element to-be-updated remains unchanged, because of the date check rules

Intercase dependencies: TC001

Environmental needs:

- Browser
- Read-write access to Computer Database
- Connection to the database
- Test data source (see Test Procedure Specification document for the related TC)

Steps:

- 1 Click on the filter textfield, and type the computer name of the existing entry (e.g. "TestComputer001")
- 2 Press on "Filter by name" button
- 3 Click on the queried presented element
- 4 Give a new, value to the field "Introduces date", e.g. "2222-01-01"
- 5 Verify, that there is no such button as "Create this computer"
- 6 Click on the button titled "Save this computer"

Expected results:

- The alert will be presented in the form of red outline around the "Introduced date" field
- The element is not saved in the database, after pressing "Cancel", and querying the element (TC002), the original values will be present

ID: TC009 (note: as I see, this is currently not implemented, but worth to check generally)

Name: Adding an entry with an earlier Discontinued date than Introduced date

Purpose: To validate date rules

Pre-conditions: -

Input specifications:

- An Introduction date value which is in the specified ('yyyy-MM-dd') format
- An Discontinued date value which is in the specified ('yyyy-MM-dd') format, and is before the Introduction date

Output Specifications: The element to-be-updated remains unchanged, because of the date check rules

Intercase dependencies: -

Environmental needs:

- Browser
- Read-write access to Computer Database
- Connection to the database
- Test data source (see Test Procedure Specification document for the related TC)

Steps:

- 1 Click on “Add a new computer” button
- 2 On the loaded page, titled “Add a computer”, enter a name to the field “Computer name” (e.g. “TestComputer004”)
- 3 Add a valid date to the “Introduced date” field, in the specified format (e.g. “1999-01-01”)
- 4 Add a valid date to the “Discontinued date” field, which is past the entered introduction date (e.g. “1987-01-01”)
- 5 Select a company from the dropdown field marked as “Company” (e.g. “Apple, Inc.”)
- 6 Press on the button marked as “Create this computer”

Expected results:

- The alert will be presented in the form of red outline around the “Discontinued date” field
- The element is not saved in the database, after pressing “Cancel”