

# 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”)
- 7 Verify, that there is no such button as “Create this computer”
- 8 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:**

- 7 Click on “Add a new computer” button
- 8 On the loaded page, titled “Add a computer”, enter a name to the field “Computer name” (e.g. “TestComputer004”)
- 9 Add a valid date to the “Introduced date” field, in the specified format (e.g. “1999-01-01”)
- 10 Add a valid date to the “Discontinued date” field, which is past the entered introduction date (e.g. “1987-01-01”)
- 11 Select a company from the dropdown field marked as “Company” (e.g. “Apple, Inc.”)
- 12 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”