

## SECTION 1 – Basic App Usage

### Use Case 1 – Launch the Excel Sheet Sorter

**Purpose:** Make sure the application starts correctly and the main window looks normal.

#### Pre-requisites:

- The application is installed or the .exe / app.py is available.
- Test machine has Windows and Excel installed (optional but helpful).

#### Steps:

1. Double-click the **Excel Sheet Sorter** shortcut or executable.
2. Wait for the main window titled “**Excel Sheet Sorter**” to appear.

#### What to verify:

- The window title shows “**Excel Sheet Sorter**”.
- The background is a light, soft color (light grey/blue).
- You see:
  - A title bar with the text and small icon.
  - A top section labelled “**Select Excel File:**” with a **Drop file / Browse** area on the right.
  - A “**Sheets in Workbook:**” section.
  - A **Sort mode** dropdown and **Rename template** box.
  - Buttons: “ **Sort Workbook**”, “ **Clear**”, “ **Exit**”.
  - A **status bar** at the bottom showing “**Ready.**” and a progress bar.
  - A “**Application Log**” panel with a “**Show / Hide Log**” button.

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### Use Case 2 – Close the Application via Exit Button

**Purpose:** Confirm the **Exit** button closes the app.

#### Steps:

1. Ensure the app is open.
2. Click the “ **Exit**” button at the bottom.

#### What to verify:

- The application window closes completely.

- No error message appears.
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### Use Case 3 – Close the Application via Window “X” Button

**Purpose:** Confirm the normal window close button shows a confirmation prompt.

**Steps:**

1. Ensure the app is open.
2. Click the standard X close button in the top-right of the window.
3. When a confirmation message appears (asking if you’re sure you want to exit), click **Cancel**.
4. Repeat and this time click **OK** (or **Yes**).

**What to verify:**

- Step 3: The app **stays open** after you click **Cancel**.
  - Step 4: The app **closes** after you confirm.
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### Use Case 4 – Open the About Dialog

**Purpose:** Verify the **Help → About** menu works.

**Steps:**

1. Open the application.
2. On the top menu bar, click **Help**.
3. Click **About**.
4. Read the information.
5. Close the About popup.

**What to verify:**

- A small window appears with an **About** message describing **Excel Sheet Sorter** and its version.
  - Closing the About window returns you to the main screen without issues.
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## SECTION 2 – Single File Selection & Sheet Preview

### Use Case 5 – Select a Single Excel File via Browse

**Purpose:** Verify basic file selection works and sheets are shown.

**Pre-requisites:**

- A sample .xlsx file is available (not currently open in Excel).

**Steps:**

1. Open the application.
2. In the “**Select Excel File:**” area, move your mouse over the “ Drop file / Browse” box on the right.
3. Click once inside this **Drop file / Browse** box.
4. In the file dialog:
  - Choose an Excel file (e.g. Sample1.xlsx).
  - Click **Open**.

**What to verify:**

- The “**Sheets in Workbook:**” list shows the sheet names from the selected workbook.
  - The label under the list shows something like:  
Sheets detected: X | File size: YY KB.
  - The **status bar** displays a message like “ **File(s) loaded successfully.**”
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**Use Case 6 – Drag and Drop a Single Excel File**

**Purpose:** Check drag-and-drop input works.

**Pre-requisites:**

- A sample .xlsx file on your desktop or in a folder.
- The app window is visible (not full-screen behind other windows).

**Steps:**

1. Open the application.
2. Open a File Explorer window with your sample Excel file visible.
3. Click and hold the Excel file.
4. Drag it over the app’s “ Drop file / Browse” box.
5. Release the mouse button to drop the file.

**What to verify:**

- The file is accepted (no error popup about invalid files).

- The “**Sheets in Workbook:**” list is updated with sheet names from that file.
  - The sheet count and file size are shown under the list.
  - The **Search Sheet** box becomes enabled (you can click and type in it).
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### **Use Case 7 – Filter Sheet Names Using the Search Box**

**Purpose:** Confirm the **Search Sheet** field filters sheet names correctly.

**Pre-requisites:**

- An Excel file with multiple sheets already loaded (e.g. Data, Summary, January, February).

**Steps:**

1. With the workbook loaded, locate the “**Search Sheet:**” field above the sheet list.
2. Click inside the **Search Sheet** field.
3. Type a part of one sheet name, e.g. jan.
4. Slowly delete / edit your search to try different fragments (e.g. sum, data).

**What to verify:**

- As you type jan, only sheet names containing “jan” (case-insensitive) remain in the list (e.g. January Sales).
  - As you clear the text, **all** sheet names reappear.
  - No error or freeze occurs while typing.
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## **SECTION 3 – Sort Modes on a Single Workbook**

### **Use Case 8 – Simple Alphabetical Sort (A → Z)**

**Purpose:** Confirm default alphabetical sorting works and can be saved.

**Pre-requisites:**

- A test workbook with multiple sheets in random order (e.g. Zebra, Alpha, Middle, etc.).

**Steps:**

1. Load the test workbook using Browse or drag-and-drop.
2. In the “**Sort mode:**” dropdown, ensure “**alpha**” is selected.
3. Make sure “**Preview Only (don't save changes)**” is **unchecked**.
4. Click “ **Sort Workbook**”.

5. When asked “**Do you want to save as a new file instead of overwriting?**”, choose **No** (or equivalent) to overwrite the original.
6. If asked whether you want to open the file in Excel, choose **Yes**.

**What to verify:**

- The progress bar moves during sorting.
- No error messages appear.
- After Excel opens the file:
  - The sheet tabs are now sorted alphabetically (A → Z) by their names.
- The **Application Log** (if visible) shows messages like:
  - [INFO] Sorted successfully: <file path>
  - [INFO] Overwritten: <file path>

**Use Case 9 – Reverse Alphabetical Sort (Z → A)**

**Purpose:** Validate **reverse alphabetical** sorting.

**Pre-requisites:**

- Same or another workbook with multiple sheets.

**Steps:**

1. Load the workbook.
2. In “**Sort mode:**”, choose “**reverse\_alpha**”.
3. Make sure **Preview Only** is **unchecked**.
4. Click “ **Sort Workbook**”.
5. Choose whether to **Overwrite** or **Save As** (pick one).
6. Open the result in Excel when prompted.

**What to verify:**

- Sheet order in Excel is reversed (Z → A).
- The log mentions custom sort being applied.
- No crash or unexpected message appears.

**Use Case 10 – Sort by Numeric Suffix (e.g. Sheet1, Sheet2, Sheet10)**

**Purpose:** Confirm **numeric\_suffix** mode orders by number at the end of sheet names.

**Pre-requisites:**

- A workbook with sheet names like Report1, Report2, Report10, Report3 (not in order).

**Steps:**

1. Load the workbook.
2. In “**Sort mode:**” dropdown, select “**numeric\_suffix**”.
3. Ensure **Preview Only** is **unchecked**.
4. Click “ **Sort Workbook**”.
5. Overwrite or Save As (either is fine).
6. Open the workbook in Excel.

**What to verify:**

- Sheets appear in numeric order: Report1, Report2, Report3, Report10.
- They are not simply sorted alphabetically (where 10 would come before 2).

### Use Case 11 – Sort by Calendar Month (Jan → Dec) with Auto Detection

**Purpose:** Verify that month-named sheets are auto-detected and sorted Jan → Dec.

**Pre-requisites:**

- A workbook whose sheets are named like: Mar, Jan, Feb, Summary, etc., in random order.

**Steps:**

1. Open the application.
2. Load the workbook that contains month names.
3. Watch the “**Sort mode:**” dropdown after the workbook loads.

**What to verify (before sorting):**

- The **Sort mode** automatically switches to “**Jan→Dec**” (if it was on a basic mode like alpha).
- The log (if visible) shows a message like:  
Month-based sheets detected → auto-selected 'Jan→Dec'!

**Sorting:**

4. Ensure **Preview Only** is **unchecked**.
5. Click “ **Sort Workbook**”.

6. Overwrite or Save As.
7. Open the workbook in Excel.

**What to verify after sorting:**

- Month sheets are ordered in calendar order: Jan, Feb, Mar, ...
  - Non-month sheets (like Summary) appear after the month sheets, grouped at the end.
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**Use Case 12 – Sort by Calendar Month (Dec → Jan)**

**Purpose:** Validate the **Dec→Jan** sort mode.

**Pre-requisites:**

- Same month-based workbook as above.

**Steps:**

1. Load the workbook.
2. Manually change “**Sort mode:**” to “**Dec→Jan**”.
3. Ensure **Preview Only** is unchecked.
4. Click “ **Sort Workbook**”.
5. Overwrite or Save As.
6. Open the workbook.

**What to verify:**

- Months are ordered from December backwards to January.
  - Non-month sheets still appear after all month sheets.
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**SECTION 4 – Preview Mode (No Saving)**

**Use Case 13 – Preview Sort Order Without Saving**

**Purpose:** Let the user see the new order before any changes are written to the file.

**Pre-requisites:**

- Any workbook with several sheets.

**Steps:**

1. Load a workbook.
2. Choose any **Sort mode** (for example **alpha** or **Jan→Dec**).

3. Tick “**Preview Only (don't save changes)**”.
4. Click “ **Sort Workbook**”.

**What to verify:**

- A popup appears showing the new sheet order as a text list.
  - The **Application Log** shows a [PREVIEW] entry describing the order.
  - If you reopen the original workbook in Excel **without saving from the app**, the sheet order is **unchanged** (because this was a dry run).
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## SECTION 5 – Rename Template

### Use Case 14 – Rename Sheets with a Custom Template (Index)

**Purpose:** Check that the **Rename template** field renames sheets.

**Pre-requisites:**

- A workbook with several sheets (any names).
- You are comfortable overwriting or saving a copy.

**Steps:**

1. Load the workbook.
2. In “**Sort mode:**”, choose **alpha** (or any desired mode).
3. In the “**Rename template:**” field, replace the default {title} with:  
Sheet\_{i}
4. Ensure **Preview Only** is **unchecked**.
5. Click “ **Sort Workbook**”, then choose to **Overwrite** or **Save As**.
6. Open the resulting workbook in Excel.

**What to verify:**

- Sheet names follow the pattern: Sheet\_1, Sheet\_2, Sheet\_3, ... in the sorted order.
  - No invalid name errors or warnings appear.
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### Use Case 15 – Rename Sheets While Preserving Original Titles

**Purpose:** Confirm {title} token is used correctly.

**Pre-requisites:**

- Workbook with sheets like Sales, Marketing, HR.

**Steps:**

1. Load the workbook.
2. Set **Sort mode** to **alpha**.
3. In “**Rename template:**” type:  
{title}\_2025
4. Ensure **Preview Only** is **unchecked**.
5. Click “ **Sort Workbook**”, then choose Overwrite or Save As.
6. Open the workbook in Excel.

**What to verify:**

- Sheets are renamed to HR\_2025, Marketing\_2025, Sales\_2025 (or similar, depending on sorting).
  - The original names appear as part of the new names.
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## SECTION 6 – Batch Mode & Background Mode

### Use Case 16 – Enable Batch Mode and Select Multiple Files

**Purpose:** Make sure batch selection works and shows selected files.

**Pre-requisites:**

- Several Excel files (e.g. Book1.xlsx, Book2.xlsx, Book3.xlsx).

**Steps:**

1. Open the application.
2. Tick “**Enable Batch Mode**” under **Select Excel File**.
3. Click the “ **Drop file / Browse**” box.
4. In the file dialog, select **multiple** Excel files (use Ctrl+Click).
5. Click **Open**.

**What to verify:**

- The **Sheets in Workbook** list now shows **file names** instead of sheet names.
- The summary label shows something like “**3 files selected (batch mode)**”.
- The **Search Sheet** field becomes disabled (greyed out).

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## Use Case 17 – Batch Sort Without Background Mode

**Purpose:** Check multiple files can be processed one after another.

**Pre-requisites:**

- Use Case 16 completed (multiple files loaded).

**Steps:**

1. Ensure “**Run in background**” is **unchecked**.
2. Select a suitable **Sort mode** (e.g. **alpha**).
3. Make sure **Preview Only** is **unchecked**.
4. Click “ **Sort Workbook**”.
5. For each file:
  - Decide whether to **Save As** or **Overwrite** when prompted.
  - Optionally choose **Yes** or **No** when asked to open it in Excel.

**What to verify:**

- The status bar updates to reflect progress, e.g.  
Sorting: <file> (1/3), Sorting: <file> (2/3)...
  - The progress bar advances as each file is processed.
  - Each selected workbook ends up sorted correctly according to the chosen mode.
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## Use Case 18 – Batch Mode with “Run in background” Enabled

**Purpose:** Ensure background processing starts and progress/log messages update.

**Pre-requisites:**

- Same multiple files as in Use Case 16.

**Steps:**

1. Load multiple files with **Batch Mode** enabled.
2. Tick “**Run in background**”.
3. Choose a **Sort mode**.
4. Click “ **Sort Workbook**”.

**What to verify:**

- Status bar shows messages like “**Batch finished.**” when done.
  - Progress bar moves steadily.
  - **Application Log** contains entries for each file:
    - started, loaded, sorted, done.
  - (Note: depending on current implementation, verify whether actual files are saved or if this is only a test / preview behaviour.)
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## SECTION 7 – Log Panel & Tooltips

### Use Case 19 – Show and Hide the Application Log

**Purpose:** Confirm the log panel toggles correctly.

**Steps:**

1. Open the application.
2. Find the “**Application Log**” area near the bottom.
3. Click the “**Show / Hide Log**” button.
4. Perform a simple action (e.g. load a workbook or run a sort).
5. Click “**Show / Hide Log**” again.

**What to verify:**

- When the log is shown, you can see text messages appear as you perform actions.
  - When hidden, the log area collapses, and the rest of the layout remains tidy.
  - No error occurs when toggling multiple times.
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### Use Case 20 – Check Button Tooltips

**Purpose:** Ensure helpful tooltips appear when hovering over some buttons.

**Steps:**

1. Move the mouse over the “ **Sort Workbook**” button and hover for a moment.
2. Move the mouse away.
3. Repeat for other main buttons if available.

**What to verify:**

- A small yellow tooltip appears near the button with a short help text.

- The tooltip disappears when you move the mouse away.
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## SECTION 8 – Error Handling & Edge Cases

### Use Case 21 – Click “Sort Workbook” with No File Selected

**Purpose:** Verify the app handles a missing file gracefully.

**Steps:**

1. Open the application.
2. Do **not** load any file.
3. Click “ Sort Workbook”.

**What to verify:**

- An information message appears telling you to select an Excel file first.
  - The status bar indicates **no file** or similar warning.
  - No crash or exception dialog occurs.
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### Use Case 22 – Try Sorting a File That Is Already Open in Excel

**Purpose:** Confirm the app detects locked/open files and warns the user.

**Pre-requisites:**

- A workbook named e.g. LockedTest.xlsx.
- Open LockedTest.xlsx directly in Excel and keep it open.

**Steps:**

1. With the file open in Excel, switch to Excel Sheet Sorter.
2. Try to load LockedTest.xlsx via Browse or drag-and-drop.
3. If it does load, attempt to click “ Sort Workbook” and follow the usual prompts.

**What to verify:**

- You receive a warning message such as:
    - The file is open in Excel or is locked.
  - Sorting and saving the workbook is **not** allowed until you close it in Excel.
  - The app does not crash.
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## Use Case 23 – Use the Clear Button

**Purpose:** Verify the “ Clear” button resets the UI to a clean state.

### Pre-requisites:

- Have any file loaded and sheet list visible.

### Steps:

1. Load a workbook and confirm the sheet list shows entries.
2. Click the “ Clear” button.

### What to verify:

- The sheet list becomes empty.
- The summary label under the sheet list is cleared.
- Batch / Preview checkboxes are reset to their default values.
- Status bar returns to “ Ready.”.
- A small popup appears confirming that selection is cleared.

## Use Case 24 – Keyboard Shortcuts (Ctrl+O, Ctrl+S, Ctrl+Q)

**Purpose:** Make sure keyboard shortcuts work for power users.

### Pre-requisites:

- At least one workbook available.

### Steps:

1. With the app focused:
  - Press **Ctrl + O**:
    - Check that the **file open dialog** appears.
  - After loading a file, press **Ctrl + S**:
    - Check that this behaves like clicking “ Sort Workbook” (you may cancel the prompts).
  - Press **Ctrl + Q**:
    - Check that the application exits.

### What to verify:

- Shortcuts trigger the expected actions.

- No unexpected popups or errors appear when using the shortcuts.
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## **SECTION 9 – Visual / Layout Checks**

### **Use Case 25 – Window Position and Resizing**

**Purpose:** Confirm the window opens centered and resizing is restricted.

#### **Steps:**

1. Close the app completely.
2. Reopen the app.
3. Note its position on the screen.
4. Try to drag the window borders to resize, and try the Maximize button.

#### **What to verify:**

- The window initially appears **centered** on your main display.
- The window **cannot** be maximized to full screen.
- You can still minimize and close it using standard window controls.