
Algorithm 1: ADB Command UI Algorithm

Step 1 : Start

Step 2 : Initialize UI

1. Create the main window.
2. Set the window title and size.
3. Add UI components such as labels, comboboxes, buttons, and status labels.

Step 3 : Populate Device List

1. Execute ADB command to list connected devices.
2. Update the device combobox with the list of connected devices.

Step 4 : Select Test Options

1. Display option to select devices
2. Display option to select ADB command
3. Display option to select test suite
4. Display option to select additional test

Step 5 : Execute ADB Command

1. Get the selected device from the combobox.
2. Get the selected command from the combobox.
3. Get any additional parameters needed for the command.
4. Start a new thread to run the command.
5. Update the status to indicate the command is running.

Step 6 : Display Executed Command

1. Show the details of the executed command in the UI.

Step 7 : Update Output

1. Store the results in the folder where ADB is installed.
2. Display the output in a .txt file.

Step 8 : Check if Command is Running

1. If the command is not running:
 - Finalize the execution.

2. If the command is still running:
 - Proceed to cancel the ADB command.

Step 9 : Finalize Execution (if command is not running)

1. Mark the command as not running.
2. Enable the execute button.
3. Disable the cancel button.
4. Update the status to indicate the command has finished.

Step 10 : Cancel ADB Command (if command is still running)

1. Kill the command process.
2. Update the status to indicate the command was canceled.
3. Reset the UI elements to their initial state.

Step 11 : Finalize Execution

Step 12 : End

