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| **Test Suite ID** | TS001 |
| **Test Case ID** | TC001 |
| **Test Case Summary** | To verify that camera turns on during program startup. |
| **Related Requirement** | FR1 |
| **Prerequisites** | 1. Program has compiled correctly |
| **Test Procedure** | 1. Run program from terminal. 2. Ensure that Camera is correctly displaying video feed. |
| **Test Data** | N/A |
| **Expected Result** | 1. The camera displays an accurate video feed |
| **Actual Result** | 1. Camera feed was displayed correctly. |
| **Status** | Pass |
| **Remarks** | N/A |
| **Created By** | Ben Jinkerson |
| **Date of Creation** | 02/25/2020 |
| **Executed By** | Ben Jinkerson |
| **Date of Execution** | 02/25/2020 |
| **Test Environment** | * OS: Windows Y * Browser: Chrome N |

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| **Test Suite ID** | TS001 |
| **Test Case ID** | TC002 |
| **Test Case Summary** | To verify that camera displays the correct FPS |
| **Related Requirement** |  |
| **Prerequisites** | 1. Program has compiled correctly 2. The Program is accurately displaying the camera feed. |
| **Test Procedure** | 1. Run program from terminal. 2. Ensure that Camera is correctly displaying video feed. 3. Check for consistent FPS |
| **Test Data** | Captured Video Data |
| **Expected Result** | The camera displays an accurate FPS reading |
| **Actual Result** | 1. Camera fps reading was displayed accurately. |
| **Status** | Pass |
| **Remarks** | This was done using my built in camera instead of USB camera |
| **Created By** | Ben Jinkerson |
| **Date of Creation** | 02/25/2020 |
| **Executed By** | Ben Jinkerson |
| **Date of Execution** | 02/25/2020 |
| **Test Environment** | * OS: Windows Y * Browser: Chrome N |

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| **Test Suite ID** | TS001 |
| **Test Case ID** | TC003 |
| **Test Case Summary** | Verify that Program shuts down correctly |
| **Related Requirement** |  |
| **Prerequisites** | 1. Program has compiled correctly 2. Program is running |
| **Test Procedure** | 1. Close down program 2. Reopen program to ensure it restarts correctly. |
| **Test Data** | N/A |
| **Expected Result** | Upon restarting program, it should initialize correctly |
| **Actual Result** | Program reinitializes with no issues |
| **Status** | Pass |
| **Remarks** | N/A |
| **Created By** | Ben Jinkerson |
| **Date of Creation** | 02/25/2020 |
| **Executed By** | Ben Jinkerson |
| **Date of Execution** | 02/25/2020 |
| **Test Environment** | * OS: Windows Y * Browser: Chrome N |

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| **Test Suite ID** | TS001 |
| **Test Case ID** | TC004 |
| **Test Case Summary** | Ensure that Program can capture images from Video feed. |
| **Related Requirement** |  |
| **Prerequisites** | Video feed is accurately displaying |
| **Test Procedure** | 1. Run program from terminal. 2. Ensure that Camera is correctly displaying video feed. 3. Capture photos from live video feed |
| **Test Data** | Video Camera Input |
| **Expected Result** | Program was capturing images of video feed |
| **Actual Result** | Program accurately captured photos from video feed |
| **Status** | Pass |
| **Remarks** | N/A |
| **Created By** | Ben Jinkerson |
| **Date of Creation** | 02/25/2020 |
| **Executed By** | Ben Jinkerson |
| **Date of Execution** | 02/25/2020 |
| **Test Environment** | * OS: Windows Y * Browser: Chrome N |

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| **Test Suite ID** | TS001 |
| **Test Case ID** | TC005 |
| **Test Case Summary** | Verify the Camera Resolution is accurate |
| **Related Requirement** |  |
| **Prerequisites** | * 1. Program has compiled correctly |
| **Test Procedure** | * 1. Check Camera Quality through Windows settings |
| **Test Data** | N/A |
| **Expected Result** | Video settings should be consistent with requirements |
| **Actual Result** | Video quality is consistent with requirements |
| **Status** | Pass |
| **Remarks** | N/A |
| **Created By** | Ben Jinkerson |
| **Date of Creation** | 02/25/2020 |
| **Executed By** | Ben Jinkerson |
| **Date of Execution** | 02/25/2020 |
| **Test Environment** | * OS: Windows Y * Browser: Chrome N |

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| **Test Suite ID** | TS001 |
| **Test Case ID** | TC006 |
| **Test Case Summary** | Capture image when out of storage |
| **Related Requirement** |  |
| **Prerequisites** | 1. Program has compiled correctly 2. Program is running 3. Program is capturing images |
| **Test Procedure** | 1. Run program from terminal. 2. Ensure that Camera is correctly displaying video feed. 3. Test what happens when memory runs low form capturing image |
| **Test Data** | Full memory location |
| **Expected Result** | Program should dump captured images upon closure |
| **Actual Result** | Captured images are destroyed upon closure, no chance of running out of memory. |
| **Status** | Pass |
| **Remarks** | N/A |
| **Created By** | Ben Jinkerson |
| **Date of Creation** | 02/25/2020 |
| **Executed By** | Ben Jinkerson |
| **Date of Execution** | 02/25/2020 |
| **Test Environment** | * OS: Windows Y * Browser: Chrome N |

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| **Test Suite ID** | TS001 |
| **Test Case ID** | TC007 |
| **Test Case Summary** | Verify that the program will continue to run after USB camera disconnect |
| **Related Requirement** |  |
| **Prerequisites** | 1. Program has compiled correctly 2. Program is Running |
| **Test Procedure** | 1. Unplug USB camera 2. Replug USB camera |
| **Test Data** | N/A |
| **Expected Result** | The camera will regain connectivity |
| **Actual Result** | The onboard camera regains connectivity |
| **Status** | Pass |
| **Remarks** | I am unsure if connectivity will be regained if a usb camera is used |
| **Created By** | Ben Jinkerson |
| **Date of Creation** | 02/25/2020 |
| **Executed By** | Ben Jinkerson |
| **Date of Execution** | 02/28/2020 |
| **Test Environment** | * OS: Windows Y * Browser: Chrome N |

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| **Test Suite ID** | TS001 |
| **Test Case ID** | TC008 |
| **Test Case Summary** | Verify the Captured Image by applying other features of Camera in setting like Colour, Sharpness, effect etc |
| **Related Requirement** |  |
| **Prerequisites** | 1. Program has compiled correctly 2. Program is running 3. Images are being captured |
| **Test Procedure** | 1. Verify that camera is able to capture images with various settings. |
| **Test Data** | N/A |
| **Expected Result** | 1. The camera captures images regardless of the settings. |
| **Actual Result** | 1. The camera was able to capture images |
| **Status** | Pass |
| **Remarks** | N/A |
| **Created By** | Ben Jinkerson |
| **Date of Creation** | 02/25/2020 |
| **Executed By** | Ben Jinkerson |
| **Date of Execution** | 02/25/2020 |
| **Test Environment** | * OS: Windows Y * Browser: Chrome N |

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| **Test Suite ID** | TS001 |
| **Test Case ID** | TC008 |
| **Test Case Summary** | Verify the Captured Image by applying other features of Camera in setting like Colour, Sharpness, effect etc |
| **Related Requirement** |  |
| **Prerequisites** | 1. Program has compiled correctly 2. Program is running 3. Images are being captured |
| **Test Procedure** | 1. Verify that camera is able to capture images with various settings. |
| **Test Data** | N/A |
| **Expected Result** | 1. The camera captures images regardless of the settings. |
| **Actual Result** | 1. The camera was able to capture images |
| **Status** | Pass |
| **Remarks** | N/A |
| **Created By** | Ben Jinkerson |
| **Date of Creation** | 02/25/2020 |
| **Executed By** | Ben Jinkerson |
| **Date of Execution** | 02/25/2020 |
| **Test Environment** | * OS: Windows Y * Browser: Chrome N |

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| **Test Suite ID** | TS001 |
| **Test Case ID** | TC009 |
| **Test Case Summary** | Disabled fields should be greyed out and users should not be able to set focus on these fields |
| **Related Requirement** |  |
| **Prerequisites** |  |
| **Test Procedure** |  |
| **Test Data** | N/A |
| **Expected Result** |  |
| **Actual Result** |  |
| **Status** |  |
| **Remarks** | N/A |
| **Created By** |  |
| **Date of Creation** | 02/25/2020 |
| **Executed By** |  |
| **Date of Execution** | 02/25/2020 |
| **Test Environment** | * OS: Windows Y * Browser: Chrome N |

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| **Test Suite ID** | TS001 |
| **Test Case ID** | TC010 |
| **Test Case Summary** | Tab and Shift+Tab order should work properly. |
| **Related Requirement** |  |
| **Prerequisites** |  |
| **Test Procedure** |  |
| **Test Data** | N/A |
| **Expected Result** |  |
| **Actual Result** |  |
| **Status** |  |
| **Remarks** | N/A |
| **Created By** |  |
| **Date of Creation** | 02/25/2020 |
| **Executed By** |  |
| **Date of Execution** | 02/25/2020 |
| **Test Environment** | * OS: Windows Y * Browser: Chrome N |

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| **Test Suite ID** | TS001 |
| **Test Case ID** | TC011 |
| **Test Case Summary** | Check image upload functionality with image files of different extensions (For Example, JPEG, PNG, BMP, etc.) |
| **Related Requirement** |  |
| **Prerequisites** |  |
| **Test Procedure** |  |
| **Test Data** | N/A |
| **Expected Result** |  |
| **Actual Result** |  |
| **Status** |  |
| **Remarks** | N/A |
| **Created By** |  |
| **Date of Creation** | 02/25/2020 |
| **Executed By** |  |
| **Date of Execution** | 02/25/2020 |
| **Test Environment** | * OS: Windows Y * Browser: Chrome N |

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| **Test Suite ID** | TS001 |
| **Test Case ID** | TC011 |
| **Test Case Summary** | Check if images of specified height and width (if defined) are accepted otherwise rejected. |
| **Related Requirement** |  |
| **Prerequisites** |  |
| **Test Procedure** |  |
| **Test Data** | N/A |
| **Expected Result** |  |
| **Actual Result** |  |
| **Status** |  |
| **Remarks** | N/A |
| **Created By** |  |
| **Date of Creation** | 02/25/2020 |
| **Executed By** |  |
| **Date of Execution** | 02/25/2020 |
| **Test Environment** | * OS: Windows Y * Browser: Chrome N |

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| **Test Suite ID** | TS001 |
| **Test Case ID** | TC012 |
| **Test Case Summary** | Check if proper field labels are used in error messages. |
| **Related Requirement** |  |
| **Prerequisites** |  |
| **Test Procedure** |  |
| **Test Data** | N/A |
| **Expected Result** |  |
| **Actual Result** |  |
| **Status** |  |
| **Remarks** | N/A |
| **Created By** |  |
| **Date of Creation** | 02/25/2020 |
| **Executed By** |  |
| **Date of Execution** | 02/25/2020 |
| **Test Environment** | * OS: Windows Y * Browser: Chrome N |

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| **Test Suite ID** | TS001 |
| **Test Case ID** | TC013 |
| **Test Case Summary** | Check window minimize, maximize, and close functionality. |
| **Related Requirement** |  |
| **Prerequisites** |  |
| **Test Procedure** |  |
| **Test Data** | N/A |
| **Expected Result** |  |
| **Actual Result** |  |
| **Status** |  |
| **Remarks** | N/A |
| **Created By** |  |
| **Date of Creation** | 02/25/2020 |
| **Executed By** |  |
| **Date of Execution** | 02/25/2020 |
| **Test Environment** | * OS: Windows Y * Browser: Chrome N |

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| **Test Suite ID** | TS001 |
| **Test Case ID** | TC014 |
| **Test Case Summary** | Verify that while streaming, video should not be distorted or pixilated. |
| **Related Requirement** |  |
| **Prerequisites** |  |
| **Test Procedure** |  |
| **Test Data** | N/A |
| **Expected Result** |  |
| **Actual Result** |  |
| **Status** |  |
| **Remarks** | N/A |
| **Created By** |  |
| **Date of Creation** | 02/25/2020 |
| **Executed By** |  |
| **Date of Execution** | 02/25/2020 |
| **Test Environment** | * OS: Windows Y * Browser: Chrome N |

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| **Test Suite ID** | TS001 |
| **Test Case ID** | TC015 |
| **Test Case Summary** | To validate whether the response time of the application is as per as the requirements. |
| **Related Requirement** |  |
| **Prerequisites** |  |
| **Test Procedure** |  |
| **Test Data** | N/A |
| **Expected Result** |  |
| **Actual Result** |  |
| **Status** |  |
| **Remarks** | N/A |
| **Created By** |  |
| **Date of Creation** | 02/25/2020 |
| **Executed By** |  |
| **Date of Execution** | 02/25/2020 |
| **Test Environment** | * OS: Windows Y * Browser: Chrome N |

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| **Test Suite ID** | TS001 |
| **Test Case ID** | TC016 |
| **Test Case Summary** | To ensure that the text is kept simple and clear to be visible to the users. |
| **Related Requirement** |  |
| **Prerequisites** |  |
| **Test Procedure** |  |
| **Test Data** | N/A |
| **Expected Result** |  |
| **Actual Result** |  |
| **Status** |  |
| **Remarks** | N/A |
| **Created By** |  |
| **Date of Creation** | 02/25/2020 |
| **Executed By** |  |
| **Date of Execution** | 02/25/2020 |
| **Test Environment** | * OS: Windows Y * Browser: Chrome N |

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| **Test Suite ID** | TS001 |
| **Test Case ID** | TC017 |
| **Test Case Summary** | To validate that the user Interface of the application is as per the screen size of the device, no text/control is partially invisible or inaccessible. |
| **Related Requirement** |  |
| **Prerequisites** |  |
| **Test Procedure** |  |
| **Test Data** | N/A |
| **Expected Result** |  |
| **Actual Result** |  |
| **Status** |  |
| **Remarks** | N/A |
| **Created By** |  |
| **Date of Creation** | 02/25/2020 |
| **Executed By** |  |
| **Date of Execution** | 02/25/2020 |
| **Test Environment** | * OS: Windows Y * Browser: Chrome N |

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| **Test Suite ID** | TS001 |
| **Test Case ID** | TC017 |
| **Test Case Summary** | To validate that the user Interface of the application is as per the screen size of the device, no text/control is partially invisible or inaccessible. |
| **Related Requirement** |  |
| **Prerequisites** |  |
| **Test Procedure** |  |
| **Test Data** | N/A |
| **Expected Result** |  |
| **Actual Result** |  |
| **Status** |  |
| **Remarks** | N/A |
| **Created By** |  |
| **Date of Creation** | 02/25/2020 |
| **Executed By** |  |
| **Date of Execution** | 02/25/2020 |
| **Test Environment** | * OS: Windows Y * Browser: Chrome N |

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| **Test Suite ID** | TS001 |
| **Test Case ID** | TC017 |
| **Test Case Summary** | Check Unmapped keys |
| **Related Requirement** |  |
| **Prerequisites** |  |
| **Test Procedure** |  |
| **Test Data** | N/A |
| **Expected Result** |  |
| **Actual Result** |  |
| **Status** |  |
| **Remarks** | N/A |
| **Created By** |  |
| **Date of Creation** | 02/25/2020 |
| **Executed By** |  |
| **Date of Execution** | 02/25/2020 |
| **Test Environment** | * OS: Windows Y * Browser: Chrome N |

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| **Test Suite ID** | TS001 |
| **Test Case ID** | TC018 |
| **Test Case Summary** | Methods which deal with exiting the application |
| **Related Requirement** |  |
| **Prerequisites** |  |
| **Test Procedure** |  |
| **Test Data** | N/A |
| **Expected Result** |  |
| **Actual Result** |  |
| **Status** |  |
| **Remarks** | N/A |
| **Created By** |  |
| **Date of Creation** | 02/25/2020 |
| **Executed By** |  |
| **Date of Execution** | 02/25/2020 |
| **Test Environment** | * OS: Windows Y * Browser: Chrome N |