**Software Construction**

**Test Cases for the Multi-part Download Tool (MPD)**

**Group Members:**

-Malik Motan

-Ayman Mafarja

-Raed Hijjawi

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|  | **Test Case ID: TC**-1 | | **Test Case Name:** Download file successfully from a valid file with direct parts only. | | | |
|  | **System:** MPD tool | | **Subsystem:** Manifest | | |  |
|  | **Designed by:** Malik Motan | | **Design Date:** 22/12/2016 | | |  |
|  | **Executed by:** | | **Execution Date:** | | |  |
|  | **Short Description:** Test a valid scenario of downloading a valid file. Valid file refers to a file that has the content type text/segments-manifest or image and its URL ends with the suffix .segments | | | | |  |
|  | **Pre-conditions:**  1. The user has a valid manifest file which is broken into files with their alternatives.  2. The MPD tool is running.  3. The machine has a valid stable connection can access the file parts hosting machines.  4. The user started a new download process.  5. The user machine has sufficient storage to hold the downloaded file. | | | | |  |
|  |  | | | | |  |
|  | **Step** | **Action** | **Expected System Response** | **Pass/** | **Comment** |  |
|  |  |  |  | **Fail** |  |  |
|  | 1 | The user browses the local file system for the manifest file. | System displays the file picker window. |  |  |  |
|  | 2 | The user selects both the download and manifest files. | The download and manifest files are successfully selected. |  |  |  |
|  | 3 | User clicks start downloading button. | The system starts the reading/parsing of the manifest file and notifies the user that manifest file is read and parsed successfully. |  |  |  |
|  | 4 | Download process successfully goes through and downloads from the direct first segments of the file | Download is successfully done and the whole file is put together |  |  |  |
|  | **STATUS** | |  |  | **PASSED** |  |
|  | **Post-conditions:**  The whole file is downloaded and all segments of the file are successfully assembled and ordered in the manifest file. The number segments in the new downloaded file is equal to the ones of the source download file. | | | | |  |

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|  | **Test Case ID: TC**-2 | | **Test Case Name:** Download file successfully from valid a file with a broken segment and available alternative to the broken segment | | | |
|  | **System:** MPD tool | | **Subsystem:** Manifest | | |  |
|  | **Designed by:** Ayman Mafarja | | **Design Date:** 22/12/2016 | | |  |
|  | **Executed by:** | | **Execution Date:** | | |  |
|  | **Short Description:** Test a valid scenario of downloading a valid file. Valid file referrs to a file that has the content type text/segments-manifest or image and its URL ends with the suffix .segments | | | | |  |
|  | **Pre-conditions:**  1. The user has a valid manifest file which is broken into files with their alternatives.  2. The MPD tool is running.  3. The machine has a valid stable connection can access the file parts hosting machines.  4. The user started a new download process.  5. The user machine has sufficient storage to hold the downloaded file. | | | | |  |
|  |  | | | | |  |
|  | **Step** | **Action** | **Expected System Response** | **Pass/** | **Comment** |  |
|  |  |  |  | **Fail** |  |  |
|  | 1 | The user browses the local file system for the manifest file. | System displays the file picker window |  |  |  |
|  | 2 | The user selects both the download and manifest files. | The download and manifest files are successfully selected. |  |  |  |
|  | 3 | User clicks start downloading button. | The system starts the reading/parsing of the manifest file. |  |  |  |
|  | 4 | The first segment of the file selected is broken, so the downloader selects the next available alternative and downloads the segment | The system shows status that the downloading process started and shows name and links to the current parts being downloaded |  |  |  |
|  | 5 | Download process successfully goes through | Download is successfully done and the whole file is put together |  |  |  |
|  | **STATUS** | |  |  | **PASSED** |  |
|  | **Post-conditions:**  The whole file is downloaded and all segments of the file are successfully assembled and ordered in the manifest file. The number segments in the new downloaded file is equal to the ones of the source download file. | | | | |  |