TEST DOCUMENTATION

COMP 4981 File Message Queue Serverr

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| **Test #** | **Description** | **Test Steps** | **Expected Result** | **Pass / Fail** |

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| --- | --- | --- | --- | --- |
| 1 | Program usage on command line arguments | 1. Run program 2. Enter *./msgqcs* | Displays the command line arguments usage | **Pass** |

**Test Case 1 | Screenshot**

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| --- | --- | --- | --- | --- |
| 2 | Run Client service | 1. Run Program 2. Enter *./msgqcs -c test 2* | Enters client service | **Pass** |

**Test Case 2 | Screenshot**

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| --- | --- | --- | --- | --- |
| 3 | Run server service | 1. Run Program 2. Enter ./msgqccs -s | Enters server service | **Pass** |

***Test Case 3 | Screenshot***

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| --- | --- | --- | --- | --- |
| 4 | Connect to client and server using their process IDs | 1. Start two terminals 2. Enter *./msgqcs -c test 1* on first terminal 3. Enter *./msgqcs -s* on second terminal   *Note : test has to be an invalid file name on the server* | Process ID’s will be exchanged and display on both side of the service | **Pass** |

***Test Case 4 | Screenshot***

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| --- | --- | --- | --- | --- |
| 5 | Request a file from the server | 1. Start two terminals 2. Enter *./msgqcs -c test 1* on first terminal 3. Enter *./msgqcs -s* on second terminal   *Note : test has to be a valid file name on the server* | Test is opened on the server and transferred to the message queue, which is read and displayed by the client | **Pass** |

***Test Case 5 | Screenshot***

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| --- | --- | --- | --- | --- |
| 6 | Request an file that doesn’t exists on the server | 1. Start two terminals 2. Enter *./msgqcs -c test 1* on first terminal 3. Enter *./msgqcs -s* on second terminal 4. *Note : test has to be an invalid file name on the server* | Displays the file not found error on both sides. The client ends and the server keeps on waiting for new clients | **Pass** |

***Test Case 6 | Screenshot***

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 7 | Connect multiple clients to 1 server with priority | 1. Start four terminals 2. Enter *./msgqcs -c test 1* on first terminal 3. Enter *./msgqcs -c test 5* on second terminal 4. Enter *./msgqcs -c test 10* on third terminal 5. Enter *./msgqcs -s* on fourth terminal 6. *Note : test has to be an invalid file name on the server* | All of the clients will successfully receive the file back in the order of third, second, and first terminal (high priority to low) | **Pass** |

***Test Case 7 | Screenshot***

