**Maintaining File Consistency in Your Gnutella-Style P2P System**

**Verification**

**CS-550 Advanced Operating Systems**

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TestCases:

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| Test Case ID | TC001 |
| Test Case description | Running peer rmiregistry on server location |
| Test Data | Start rmiregitry 5001 |
| Steps | Command and enter |
| Expected result | Started RmiRegistry |
| Actual Result | Unmarshalling Exception |

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| Test Case ID | TC002 |
| Test Case description | Running peer rmic in the server location |
| Test Data | *rmic peer.server.PeerServer* |
| Steps | Enter |
| Expected result | Stub has been created |
| Actual Result | Unmarshalling Exception/Connection Exception |

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| Test Case ID | TC003 |
| Test Case description | Running peerClient before running the Peerserver of other peers |
| Test Data | *java peer.PeerDriver Peer1 localhost 5001 localhost 5000 localhost 5002* |
| Steps | Enter |
| Expected result | Connection of peer |
| Actual Result | Connection exception |

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| Test Case ID | TC004 |
| Test Case description | Running ant –buildfile rmibuild.xml peer9 |
| Test Data | *Running the ant file without giving the ant target name* |
| Steps | Enter |
| Expected result | Opening of all the rmi registry |
| Actual Result | Only one rmi registry opens |

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| Test Case ID | TC005 |
| Test Case description | Running ant -buildfile build\_Linear without giving .xml |
| Test Data | ant -buildfile build\_Linear |
| Steps | Enter |
| Expected result | Opening of all the peers CP |
| Actual Result | build\_Linear does not exist! |

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| Test Case ID | TC006 |
| Test Case description | Choose an update protocol settings. Enter number matching an option: for the option whether Push or Pull Protocol |
| Test Data | Choose an update protocol settings. Enter number matching an option: |
| Steps | 3 |
| Expected result | IOException |
| Actual Result | Please enter a valid input |

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| Test Case ID | TC007 |
| Test Case description | Choose an update protocol settings. Enter number matching an option: for the option whether Push or Pull Protocol |
| Test Data | Choose an update protocol settings. Enter number matching an option |
| Steps | E |
| Expected result | InputMismatchException |
| Actual Result | java.util.InputMismatchException |

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| Test Case ID | TC008 |
| Test Case description | How do you want to handle stale files? Enter number matching an option: for handling with the test files with delete old files, redownload, ignore and continue |
| Test Data | **How do you want to handle stale files? Enter number matching an option:** |
| Steps | 4 |
| Expected result | IOException |
| Actual Result | Please enter a valid input |

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| Test Case ID | TC009 |
| Test Case description | How do you want to handle stale files? Enter number matching an option: for handling with the test files with delete old files, redownload, ignore and continue |
| Test Data | **How do you want to handle stale files? Enter number matching an option:** |
| Steps | E |
| Expected result | InputMismatchException |
| Actual Result | java.util.InputMismatchException |

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| Test Case ID | TC010 |
| Test Case description | How do you want to handle stale files? Enter number matching an option: for handling with the test files with delete old files, redownload, ignore and continue |
| Test Data | **How do you want to handle stale files? Enter number matching an option:** |
| Steps | 1 |
| Expected result | Enter The Option and filename/Peer name: menu |
| Actual Result | Enter The Option and filename/Peer name: menu |

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| Test Case ID | TC011 |
| Test Case description | How do you want to handle stale files? Enter number matching an option: for handling with the test files with delete old files, redownload, ignore and continue |
| Test Data | **How do you want to handle stale files? Enter number matching an option:** |
| Steps | 2 |
| Expected result | Enter The Option and filename/Peer name: menu |
| Actual Result | Enter The Option and filename/Peer name: menu |

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| Test Case ID | TC012 |
| Test Case description | How do you want to handle stale files? Enter number matching an option: for handling with the test files with delete old files, redownload, ignore and continue |
| Test Data | **How do you want to handle stale files? Enter number matching an option:** |
| Steps | 3 |
| Expected result | Enter The Option and filename/Peer name: menu |
| Actual Result | Enter The Option and filename/Peer name: menu |

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| Test Case ID | TC013 |
| Test Case description | Enter The Option and filename/Peer name: with option Download file from other peer, calculate average response time, edit the file, exit |
| Test Data | Enter The Option and filename/Peer name: |
| Steps | 5 |
| Expected result | IOException |
| Actual Result | Please enter a valid input |

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| Test Case ID | TC014 |
| Test Case description | Enter The Option and filename/Peer name: with option Download file from other peer, calculate average response time, edit the file, exit |
| Test Data | Enter The Option and filename/Peer name: |
| Steps | E |
| Expected result | InputMismatchException |
| Actual Result | java.util.InputMismatchException |

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| Test Case ID | TC013 |
| Test Case description | Enter The Option and filename/Peer name: with option Download file from other peer, calculate average response time, edit the file, exit |
| Test Data | Enter The Option and filename/Peer name: |
| Steps | 1 1.txt |
| Expected result | Query message sent, waiting for response from network... The following Peers have the file you want: |
| Actual Result | Query message sent, waiting for response from network... The following Peers have the file you want |

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| Test Case ID | TC014 |
| Test Case description | Enter The Option and filename/Peer name: with option Download file from other peer, calculate average response time, edit the file, exit |
| Test Data | Enter The Option and filename/Peer name: |
| Steps | 2 |
| Expected result | Calculate Average Response time: 250ms |
| Actual Result | Calculate Average Response time :250ms |

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| Test Case ID | TC015 |
| Test Case description | Enter The Option and filename/Peer name: with option Download file from other peer, calculate average response time, edit the file, exit |
| Test Data | Enter The Option and filename/Peer name: |
| Steps | 3 |
| Expected result | You may only edit files you own.  Choose a file to edit by entering its corresponding number |
| Actual Result | You may only edit files you own.  Choose a file to edit by entering its corresponding number |

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| Test Case ID | TC016 |
| Test Case description | Enter The Option and filename/Peer name: with option Download file from other peer, calculate average response time, edit the file, exit |
| Test Data | Enter The Option and filename/Peer name: |
| Steps | 4 |
| Expected result | Exit |
| Actual Result | System Exit |

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| Test Case ID | TC017 |
| Test Case description | Not choosing the option for which peer has been displayed |
| Test Data | 10 |
| Steps | Enter |
| Expected result | Please enter the correct peer number from above options |
| Actual Result | Please enter the correct peer number from above list |

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| Test Case ID | TC018 |
| Test Case description | File name which is not present with any peer |
| Test Data | 1 100.txt |
| Steps | enter |
| Expected result | File not found |
| Actual Result | File not found |

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| Test Case ID | TC019 |
| Test Case description | Not choosing the option for which peer has been displayed |
| Test Data | E |
| Steps | Enter |
| Expected result | Usage: <task #> <filename or Peer\_name> |
| Actual Result | Usage: <task #> <filename or Peer\_name> |

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| Test Case ID | TC019 |
| Test Case description | Not choosing the option for which peer has been displayed |
| Test Data | E |
| Steps | Enter |
| Expected result | Usage: <task #> <filename or Peer\_name> |
| Actual Result | Usage: <task #> <filename or Peer\_name> |