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| General Information | |
| Use Case ID Number : UC004  Subject Area : Connecting to Server  Description : Players connecting to a server to play chess | Responsible Analyst : Todd Breedlove |

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| Requirements/Feature Trace | |
| **REQ#** | Requirements Name and / or Short Description |
| 12 | Allow user to play chess against another player on application. |
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| Revision History | | |
| Author | **Date** | **Comments** |
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| **Insertion Points in other Use Cases** | | |
| Use Case Name | **Use Case Number** | **Step Inserted After** |
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| **Actors** | | |
| **Actor Name** | **P/S** | **Brief Description** |
| User | P | User connects to Raspberry Pi. |
| Raspberry Pi | S | Runs on port 2500 and handles incoming connections. |

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| **Pre-Conditions** | |
| # | Description |
| 1 | User must have entered a valid username and password. |

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| **Start Stimulus** |
| User clicks log in button |

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| **Use Case Main Course Steps** | | | |
| **Number** | **Description** | **Adds/Alt UC Name/Number** | **Bus Rule(s)#** |
| 01 | Server silently listens in background for incoming connections. |  |  |
| 02 | User sends connection request to server |  |  |
| 03 | Server creates new thread to compensate for new request. |  |  |
| 04 | Server sends acknowledge that user is connected to server. |  |  |

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| **Exception Conditions** | | |
| **Exception Situations** | **Action(s) on Exception** | **Adds/Alt Use Case #** |
| Server times out | User notified that server timed out and prompted to retry connecting. |  |
| Maximum number of pending connections exceeded | Server notifies user(s) that server is full and prompted to retry at another time. |  |
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| Post-Conditions | |
| **#** | **Description** |
| 1 | A message stating the user is connected to the Chessgames Mobile Server |

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| **Candidate Objects** | | |
| **Class/Object Name** | **Descriptions** | **Possible**  **attributes** |
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| **Assumptions** | | | | | |
| **#** | **Assumption** | **Date**  **Raised** | **Raised**  **By** | **Date**  **Verified** | **Verified By** |
| 1 | Raspberry Pi is running 24/7. | 12/13/14 | Aaron Costner |  |  |
| 2 |  |  |  |  |  |

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| **Issues** | | | | | |
| **#** | **Issue** | **Date**  **Raised** | **Raised**  **By** | **Date**  **Verified** | **Verified By** |
| 1 |  |  |  |  |  |
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| **Other Comments** | | |
| **Author** | **Comment** | **Date** |
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| Frequency of Execution |
| **Frequency:**  Minimum: 24 Maximum: 240 Average: 120 (OR)Fixed:  **Per:** Hour:Day:  Week:  Month:  Day:  Other: |

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| **Timing Information** | | | | | | | |
| **#** | **At/**  **Between** | **Step(s)** | **Timing**  **Unit** | **Minimum** | **Average** | **Maximum** | **Comments** |
| 1 |  |  |  |  |  |  |  |
| 2 |  |  |  |  |  |  |  |
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| **Volume Information** | | | | | | |
| **#** | **Step #** | **Unit of**  **Measure** | **Minimum** | **Average** | **Maximum** | **Comments** |
| 1 |  |  |  |  |  |  |
| 2 |  |  |  |  |  |  |
|  |  |  |  |  |  |  |

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| **Alternate Course General Information** |
| Alternate Course Name:  Alternate Course Number:  Parent Use Case Name:  Parent Use Case Number:  Description:  Reason for Execution: Non Exception:  Exception:  Exception #:  Start(Trigger) Stimulus:  Type of Execution (optional): Manual:  Automatic: |

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| Insertion Point |
| Step Inserted After |
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| Pre-Conditions | |
| 1. |  |
| 2. |  |

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| Alternate Course Steps | | | |
| **#** | **Step Description** | **Adds/Alt Use Case #** | **Business Rule(s)#** |
| 1. |  |  |  |
| 2. |  |  |  |
| 3. |  |  |  |
| 4. |  |  |  |

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| Post-Conditions | |
| 1. |  |
| 2. |  |