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| **Test ID** | **Test Case Description** | **Input** | **Expected Output** |
| 1 | User enters a Correct Username & Correct Password | Valid Username & Password | Access Granted |
| 2 | User enters a Incorrect Username & Correct Password | Invalid Username & Valid Password | Access Denied |
| 3 | User enters a Correct Username & Incorrect Password | Valid Username & Invalid Password | Access Denied |
| 4 | User enters a Incorrect Username & Incorrect Password | Invalid Username & Invalid Password | Access Denied |
| 5 | User wants to modify routes | Valid changes | Changes saved in UI Buffer |
| 6 | User wants to modify routes | Invalid changes | Changes saved in UI Buffer |
| 7 | User wants to save modified routes | Valid changes | Changes saved in Redis Database |
| 8 | User wants to save modified routes | Invalid changes | Changes not saved & are Discarded |
| 9 | User wants to modify Node status | Switch ON | Node switched ON |
| 10 | User wants to modify Node status | Switch OFF | Node switched OFF |
| 11 | User wants to modify Node status | Switch ON OFF | No Change in Node status |
| 12 | User wants to modify Node status | Switch OFF ON | No Change in Node status |
| 13 | User wants to modify Node status | Switch ON OFF ON | Node switched ON |
| 14 | User wants to modify Node status | Switch OFF ON OFF | Node switched OFF |