**IMS CLIENT APPLICATION**

**TEST CASE DOCUMENT**

SYSTEM TEST

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| --- | --- | --- | --- | --- |
| No. | Part | Test case | Error /Problem | Resolve |
| 1 | Register | Register and Deregister repeatedly | Can’t Register and Deregister repeatedly | Control thread of Application.  Improvement:  + Limited the number of Register with 1 account (2 consecutive times)  + Unlimited number of logins if alternate accounts |
| 3 | Call and Receive Call | Call repeatedly | Not problem |  |

Limit the number of Register with 1 account (2 consecutive times)

FUNCTION TEST

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| --- | --- | --- | --- | --- |
| No. | Part | Test case | Error /Problem | Resolve |
| 1 | Register | Test get Username and Password | Can’t get Username and Password in GUI | Check function getUsername and getPassword. |
| 2 | Register | Username and password empty. | Send request is null 🢣 Register fail (SIP message scenario not correct). | Check input of username and password, input again. |
| 3 | Register | Username empty | Send request is null 🢣 Register fail (SIP message scenario not correct). | Check input of username and input message again |
| 4 | Register | Password empty | Send request is null 🢣 Register fail (SIP message scenario not correct). | Check input of password and input message again |
| 5 | Register | Create URI/Address after input Username | Address/URI not correct 🢣 Register fail | Check scenario when create Address/URI. |
| 6 | Register | Username and password not correct | Authorization fail 🢣 Register fail (AuthorizationHeader not correct) | Check account before input |
| 7 | Register | Username not correct | Authorization fail 🢣 Register fail (AuthorizationHeader not correct) | Check account (username) before input |
| 8 | Register | Password not correct | Authorization fail 🢣 Register fail (AuthorizationHeader not correct) | Check account (password) before input |
| 9 | Register | Username and password correct | Register success. |  |
| 10 | Call and Receive Call | Test get Username and URI when add contact | Can’t get Username and URI in GUI (register form) | Check function getUsername and getURI. |
| 11 | Call and Receive Call | Test delete contact | Can’t delete contact | Write HandleButtonremove function, delete contact after select. |
| 12 | Call and Receive Call | Test select contact in contact list to get URI of destination | Can’t get URI after select contact | Use getSelectItem function and getPhone |
| 13 | Call and Receive Call | Contact not exist (Not create or deleted) | Not destination for call 🢣 Call fail (URI not exist) | Create contact |
| 14 | Call and Receive Call | Not select contact when call | Not destination for call 🢣 Call fail (URI not exist) | Select contact before call |
| 15 | Call and Receive Call | URI of destination not correct | Can’t connect call 🢣 Call fail (URI not correct) | Check contact when create contact and create contact again. |
| 16 | Call and Receive Call | Callee does not pick up the call | Caller must wait and the call not connect | Caller actively turn off the call |
| 17 | Call and Receive Call | Callee does not pick up the call | Caller must wait and the call not connect | Application actively turn off the call after 30 seconds. |
| 18 | Call and Receive Call | Callee turn off the call. | The call not connect | Turn off the call. |
| 19 | Call and Receive Call | Caller communicate with callee | Transfer voice. | Use Java Media Framework (JMF) soflware and class VoiceTool. |
| 20 | Call and Receive Call | Caller/Callee pick up the call | Start the call (Start VoiceTool) | Create and start class VoiceTool to transfer voice. |
| 21 | Call and Receive Call | Notice make a call. | Notification appears | Notification appears |
| 22 | Call and Receive Call | Caller/Callee turn off the call | Stop the call (Stop VoiceTool) | Stop class VoiceTool |
| 23 | Call and Receive Call | Notice stop a call. | Notification appears | Notification appears |
| 24 | Deregister | Deregister account |  | Send request Deregister and Deregister success. |