**Requirement Traceability matrix(RTM):**

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| **REQUIREMENT** | **DESIGN MAPPING** | **CODE MAPPING** | **IT MAPPING** | **UT MAPPING** |
| RPBC\_01 | a | Client-server connection | IT\_04 | UT\_01,UT\_03 |
| RPBC\_02 | b | User authentication | IT\_02,IT\_03 | UT\_03,UT\_04 |
| RPBC\_03 | c | Server side protection | IT\_04 | UT\_00 |
| RPBC\_04 | d | Anonymous user access | IT\_01 | UT\_00 |
| RPBC\_05 | e | Authenticated user access | IT\_02 | UT\_01,UT\_02 |
| RPBC\_06 | f | Authenticated admin access | IT\_03 | UT\_03,UT\_04 |
| RPBC\_07 | g | Server side concurrency | IT\_04 | UT\_00 |
| RPBC\_08 | h | Client side program starting | IT\_04 | UT\_01,UT\_03 |
| RPBC\_09 | i | Client side connection request | IT\_04 | UT\_02,UT\_03 |
| RPBC\_10 | j | Client side authentication | IT\_02  IT\_03 | UT\_03,UT\_04 |
| RPBC\_11 | k | Client side user environment | IT\_04 | UT\_02 |
| RPBC\_12 | l | Change group | IT\_02 | UT\_03  UT\_04 |
| RPBC\_13 | m | Contact list display | IT\_02  IT\_03 | UT\_02 |
| RPBC\_14 | n | Add contact | IT\_01,IT\_02, IT\_03 | UT\_01 |
| RPBC\_15 | o | Contact deletion | IT\_01,IT\_02,IT\_03 | UT\_01  UT\_02 |
| RPBC\_16 | p | Group add and remove | IT\_03 | UT\_00 |
| RPBC\_17 | q | Client side quit | IT\_04 | UT\_00 |