TRACEABILITY MATRIX

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| Requirement ID | Requirement description | Use case ID | High level Design element | Low level Design element-1 | Low level Design element-2 | Test Case | Status |
| RQ1 | It allows student to Register | UC-2,UC-10,UC-7 | Manager1 | Frag\_two ,  CompanyDb ,  Registered,  JavaMailAPI | M1,M7,M13,M15,M20,M21 | T1.ST1-Not a member of company  T1.ST2-User enter correct credential  T1.ST3-Already registered | Fail    Pass    Fail |
| RQ-2 | It allows Student to login | UC-1,UC-6,UC-9 | Manager1 | Frag\_two, Registered,  FlagDb,  ContactsDb | M2,M13,M16,M29,M30,M41,M42,M43 | T2.ST1-Not a member of company  T2.ST2-User enter correct credential which is registered  T2.ST3-User enter wrong credential  T2.ST4-Not registered  T2.ST5-Not in allocated time slot | Fail    Pass    Fail  Fail  Fail |
| RQ-3 | Student can exit | UC-3 | Manager1 | Frag\_two , ContactsDb  FlagDb | M3,M33,M44 | T3.ST1- User enter correct credential  T3.ST2-User enter wrong credential | Pass    Fail |
| RQ-4 | Users can change password | UC-4 | Manager1 | Frag\_two,  Registered | M6,M15,M16,M17 | T4.ST1-Manager enter wrong password  T4.ST2-Manager enter correct password | Fail    Pass |
| RQ-5 | It allows manager to login | UC-5 | Manager1 | Frag\_one | M47 | T5.ST1-Manager enter wrong password  T5.ST2-Manager enter correct password | Fail    Pass |
| RQ-6 | Updating details of users | UC-7 | Manager1 | Frag\_one , CompanyDb | M47,M20,M21,M22,M24 | T6.ST1-Manager enter wrong password  T6.ST2-Manager enter correct password | Fail    Pass |
| RQ-7 | Removing/Adding users in case someone leaves or joins | UC-6,UC-7 | Manager1 | Frag\_one , CompanyDb | M48,M23 | T7.ST1-Manager enter wrong password  T7.ST2-Manager enter correct password | Fail    Pass |
| RQ-8 | Verify details and give permission to enter | UC-6,UC-7,UC-9 | User | Frag\_two, Registered,  CompanyDb | M2,M13,15,M16,M22 | T8.ST1-Already registered  T8.ST2-Not a member of company  T8.ST3--User enter correct credential  T8.ST4-User enter wrong credential  T8.ST5-Not registered  T8.ST6-Not in allocated time slot | Pass    Fail  Pass    Fail  Fail  Fail |
| RQ-9 | For any new registration permission is required | UC-2,UC-6,UC-10 | Manager2 | Frag\_two , CompanyDb,  Registered | M1,M15,M22 |  |  |
| RQ-10 | Mail for timeout | UC-11,UC-12 | User | Frag\_two,  MyAlarm,  ExampleJobService,ContactsDb  ,CompanyDb,  ,JavaMailAPI | M4,M7,M22,M31,M36,M37,M38 | T10.ST1-Time limit exceed  T10.ST2-Time limit not exceed | Mail    No Mail |
| RQ-11 | Mail successful registration notification | UC-2,UC-6,UC,10,UC-12 | User | JavaMailAPI | M7 | T11.ST1-Genuine user  T11.ST2--Not genuine user | Pass  Fail |
| RQ-12 | Flagging entry/exit time | UC-1,UC-3,UC-8,UC-9 | User | Frag\_two,  FlagDb | M2,M3,M42,M44 |  |  |
| RQ-13 | Manager can see the entry/exit time of user | UC-8 | Manager2 | Frag\_three,  FlagDb | M45,M50 | T13.ST1- Manager enter wrong password  T13.ST2-Manager enter correct password | Fail    Pass |
| RQ-14 | Manager can see the details of user | UC-8 | Manager2 | Frag\_three,  CompanyDb | M22,M49 | T14.ST1- Manager enter wrong password  T14.ST2-Manager enter correct password | Fail    Pass |
| RQ-15 | Manager can insert details of person who is part of company(which will be like permission) | UC-5,UC-7 | Manager1 | Frag\_one,  CompanyDb | M21,M24,M47 | T15.ST1- Manager enter wrong password  T15.ST2-Manager enter correct password | Fail    Pass |
| RQ-16 | Help for how to do tasks | UC-14 | Help | Frag\_four |  |  |  |
| RQ-17 | User and manager should have different workspaces | FRONT-END REQUIREMENT | ui | PageViewModel  PlaceHolderFragment  SectionsPagerAdapter | M52,M53,M56,57,58,59 |  |  |