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# Traceability Matrix

for

# AVAILSYS

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# Traceability Matrix

**REQUIREMENT ID** : from software requirement specifications document(4.1\*.1\*)

**USE CASE - ID**: from software requirement specifications (represented as **UC - 1\***)

**HIGH LEVEL DESIGN** : from Sequence Diagram (represented by **SD - 1\*.1\***)

**LOW LEVEL DESIGN - 1**: from class diagram classes (represented by **CD - 3.2.1\***)

**LOW LEVEL DESIGN - 2**:from class diagram methods (represented by **M1\***)

\* - represents the continuation of series

For the meaning of each part , check after the table .

REQUIREMENT ID	USE CASE - ID	HIGH LEVEL DESIGN	LOW LEVEL DESIGN 1	LOW LEVEL DESIGN 2	STATUS
4.1.1	UC - 1,UC - 8	SD - 1.1	CD - 3.2.1	M1,M2	PASSED
4.1.2	UC - 2	SD - 1.2 SD - 1.6	CD - 3.2.1 CD - 3.2.2 CD - 3.2.4 CD - 3.2.5	M3,M12,M14, M15,M16	PASSED
4.1.3	UC - 3	SD - 1.2 SD - 1.3	CD - 3.2.1 CD - 3.2.2	M5,M6,M19	PASSED
4.1.4	UC - 4	SD - 1.2 SD - 1.5	CD - 3.2.1 CD - 3.2.2	M7,M9,M17	PASSED
4.1.5	UC - 5	SD - 1.2 SD - 1.4	CD - 3.2.1	M8	PASSED
4.1.6	UC - 6 , UC - 13	SD - 1.2 SD - 1.4 SD - 1.5	CD - 3.2.1	M7	PASSED
4.2.1	UC - 7	SD - 2.1	CD - 3.2.2	M19	PASSED
4.2.2	UC - 1,UC - 8	SD - 2.1	CD - 3.2.2	M10,M11	PASSED
4.2.3	UC - 9	SD - 2.2	CD - 3.2.1	M5,M6	PASSED
4.2.4	UC - 10	SD - 2.2 SD - 2.3	CD - 3.2.2 CD - 3.2.5	M15,M16	PASSED
4.2.5	UC - 11	SD - 2.2 SD - 2.3 SD - 2.4	CD - 3.2.1 CD - 3.2.2	M9,M17	PASSED

4.2.6	UC - 12	SD - 2.2 SD - 2.3 SD - 2.5	CD - 3.2.2 CD - 3.2.5	M18,M21	PASSED
4.2.7	UC - 6, UC - 13	SD - 2.2	CD - 3.2.2	M13	PASSED
4.2.8	UC - 14,UC - 15	SD - 2.2 SD - 2.3 SD - 2.4 SD - 2.5	CD - 3.2.1 CD - 3.2.2 CD - 3.2.3 CD - 3.2.4	M7,M9,M13, M17,M20	PASSED
4.3.1	UC - 14,UC - 15	SD - 2.2 SD - 2.3 SD - 2.4 SD - 2.5	CD - 3.2.1 CD - 3.2.2 CD - 3.2.3 CD - 3.2.4	M7,M9,M13, M17,M20	PASSED

## Appendix:

### Requirements :

**4.1.1** - Login

**4.1.2** - Manage Student Database

**4.1.3** - Manage Faculty Database

**4.1.4** - Manage Lab

**4.1.5** - Manage Resource Database

**4.1.6** - Cancel the Slot

**4.2.1** - Register

**4.2.2** - Login

**4.2.3** - Update Details

**4.2.4** - Manage Section

**4.2.5** - Schedule a Slot

**4.2.6** - Schedule Resource

**4.2.7** - Cancel Slot

**4.2.8** - Receive Emails

**4.1.1** - Receive Emails

**Use Case - 1:**Login

**Use Case - 2:**Manage Student Database

**Use Case - 3:**Manage Faculty Database

**Use Case - 4:**Manage Labs

**Use Case - 5:**Manage Resource Database

**Use Case - 6:**Cancel the Slot

**Use Case - 7:**Register

**Use Case - 8:**Login

**Use Case - 9:**Update Details

**Use Case - 10:**Manage Sections

**Use Case - 11:**Schedule Lab

**Use Case - 12:**Schedule Resource

**Use Case - 13:**Cancel Slot

**Use Case - 14:**Receive Emails

**Use Case - 15:**Receive Emails

### Use Case Diagram:

## Sequence Diagram :

### Sequence Diagram - 1:Admin

- 1.1 - Login
- 1.2 - Dashboard
- 1.3 - Faculty Management
- 1.4 - Resource Management
- 1.5 - Lab Management
- 1.6 - Student Management

### Sequence Diagram - 2:Faculty

- 2.1 - Login Success
- 2.2 - Dashboard
- 2.3 - Section management
- 2.4 - Lab Management
- 2.5 - Resource Management

## Class Diagram Classes :

**Class Diagram - 3.2.1:**Admin

**Class Diagram - 3.2.2:**Faculty

**Class Diagram - 3.2.3:**Lab

**Class Diagram - 3.2.4:**Student

**Class Diagram - 3.2.5:**Section

**Class Diagram - 3.2.6:**Resource

## Class Diagram Methods:

**Method-1:** Login() - **M1**

**Method-2:** Logout() - **M2**

**Method-3:** ModifyStudent() - **M3**

**Method-4:** CancelTheSlot() - **M4**

**Method-5:** AddNewFaculty() - **M5**

**Method-6:** ModifyFaculty() - **M6**

**Method-7:** ManageLabs() - **M7**

**Method-8:**

ManageResourceDatabase() - **M8**

**Method-9:** ManageTimeSlot() - **M9**

**Method-10:** Login() - **M10**

**Method-11:** Logout() - **M11**

**Method-12:** ModifyStudent() - **M12**

**Method-13:** CancelTheSlot() - **M13**

**Method-14:** AddNewStudent() - **M14**

**Method-15:** AddNewSection()- **M15**

**Method-16:** ModifySection()- **M16**

**Method-17:** ScheduleASlot()- **M17**

**Method-18:** ScheduleResource()- **M18**

**Method-19:** Register()- **M19**

**Method-20:** SendNotification()- **M20**

**Method-21:** AssignmentResources()-  
**M21**

CLASS DIAGRAM	METHODS
CD - 3.2.1	M1,M2,M3,M4,M5,M6,M7,M8,M9

CD - 3.2.2	M10,M11,M12,M13,M14,M15,M16,M17,M18,M19
CD - 3.2.3	M20
CD - 3.2.4	NIL
CD - 3.2.5	NIL
CD - 3.2.6	M21