

Software Engineering IT314

Project: Student leave and TA assistantship management Group: 9

• Group Members:

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1. Leave Form

From Date: It should be greater than equal to Current Date (From date >= Current date)

To Date: It should be greater than equal to the Current date and From date (To date >= From date && To date >= From date)

Equivalence Class	FromDate	ToDate Reason length		Expected Output
E1	>= Current	>= Current & >= FromDate	>=1	Submit
E2	>= Current	>= Current & < FromDate	>=1	Error
E3	>= Current	< Current & >= FromDate	>=1	Impossible
E4	>= Current	< Current & < FromDate		
E5	>= Current	> Current & <1 > FromDate		Error
E6	>= Current	>= Current & < FromDate	<1	Error
E7	>= Current	< Current & >= FromDate	<1	Impossible
E8	>= Current	< Current & < FromDate	<1	Error
E9	< Current	>= Current & > FromDate		
E10	< Current	>= Current & < FromDate	>=1	Impossible
E11	< Current	< Current & >= FromDate	>=1	Error
E12	< Current	< Current & < FromDate	>=1	Impossible

E13	< Current	> Current & > FromDate	<1	Error
E14	< Current	>= Current & < FromDate	<1	Impossible
E15	< Current	< Current & >= FromDate	<1	Error
E16	< Current	< Current & < FromDate	<1	Error

Let's say, Current Date: 22/04/2023

Test Case	FromDate	ToDate	Reason length	Expected Output
1	23/04/2023	24/04/2023	10	Submit
2	25/04/2023	24/04/2023	4/04/2023 5 Er	
3	23/04/2023	? < Current & >= FromDate	20	Impossible
4	29/04/2023	20/04/2023	1	Error
5	10/05/2023	15/05/2023	0	Error
6	26/04/2023	23/04/2023	0	Error
7	30/04/2023	? < Current & >= FromDate	0	Impossible
8	22/04/2023	18/04/2023	0	Error
9	18/04/2023	? >= Current & > FromDate	50	Impossible
10	21/04/2023	? >= Current & < FromDate	5	Impossible
11	22/03/2023	25/03/2023	30	Error

12	22/04/2022	? < Current & < FromDate	10	Impossible
13	02/04/2023	> Current & > FromDate	<1	Error
14	15/02/2023	? >= Current & < FromDate	<1	Impossible
15	15/04/2023	20/04/2023	<1	Error
16	03/04/2023	01/04/2023	<1	Error

Boundary Value Analysis:

From Date >= Current Date

To Date >= Current Date and To Date >= From Date

Test Case	FromDate	ToDate	Reason length	Expected Output
1	current	From+1	0	Error
2	current	From-1	0	Error
3	current	From	0	Error
4	current	current+1	0	Error
5	current	current-1	0	Error
6	current	current	0	Error
7	current+1	From+1	0	Error
8	current+1	From-1	0	Error
9	current+1	From	0	Error
10	current+1	current+1	0	Error
11	current+1	current-1	0	Error

12	current+1	current	0	Error	
13	current-1	From+1	0	Error	
14	current-1	From-1	0	Error	
15	current-1	From	0	Error	
16	current-1	current+1	0	Error	
17	current-1	current-1	0	Error	
18	current-1	current	0	Error	
19	current	From+1	1	Submit	
20	current	From-1	1	Error	
21	current	From	1	Submit	
22	current	current+1	1	Submit	
23	current	current-1	1	Error	
24	current	current	1	Submit	
25	current+1	From+1	1	Submit	
26	current+1	From-1	1	Error	
27	current+1	From	1	Submit	
28	current+1	current+1	1	Submit	
29	current+1	current-1	1	Error	
30	current+1	current	1	Error	
31	current-1	From+1	1	Error	
32	current-1	From-1	1	Error	
33	current-1	From	1	Error	
34	current-1	current+1	1	Error	
35	current-1	current-1	1	Error	
36	current-1	current	1	Error	

37	current	From+1	2	Submit
38	current	From-1	2	Error
39	current	From	2	Submit
40	current	current+1	2	Submit
41	current	current-1	2	Error
42	current	current	2	Submit
43	current+1	From+1	2	Submit
44	current+1	From-1	2	Error
45	current+1	From	2	Submit
46	current+1	current+1	2	Submit
47	current+1	current-1	2	Error
48	current+1	current	2	Error
49	current-1	From+1	2	Error
50	current-1	From-1	2	Error
51	current-1	From	2	Error
52	current-1	current+1	2	Error
53	current-1	current-1	2	Error
54	current-1	current	2	Error

Decision Table-Based Testing:

C1: From Date Empty?	Yes	No					
C2: To Date Empty?	-	Yes			No		
C3: Reason length 0?		ı	Yes		No		
C4: FromDate >= Current Date			-	No	Yes		
C5: ToDate >= Current Date					No	`	⁄es
C6: ToDate >= FromDate					No Yes		Yes
A1: Successfully Submit							\checkmark
A2: Enter Valid Details	V	V	✓	V	N	N	