

## IT-314 Software Engineering



### Group: 27 College Programming Club

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202001276	OM CHALODIYA
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202001433	MODIYA DEEP ASHOKBHAI
202001445	PATEL KRUNAL MAHESHBHAI

## Login:

### Equivalence class partitioning

Partition ID	Email address	Password	Expected output
E1	Valid	Valid	Success Redirect
E2	Valid	Invalid	Failure Redirect
E3	Invalid	Valid	Failure Redirect
E4	Invalid	Invalid	Failure Redirect

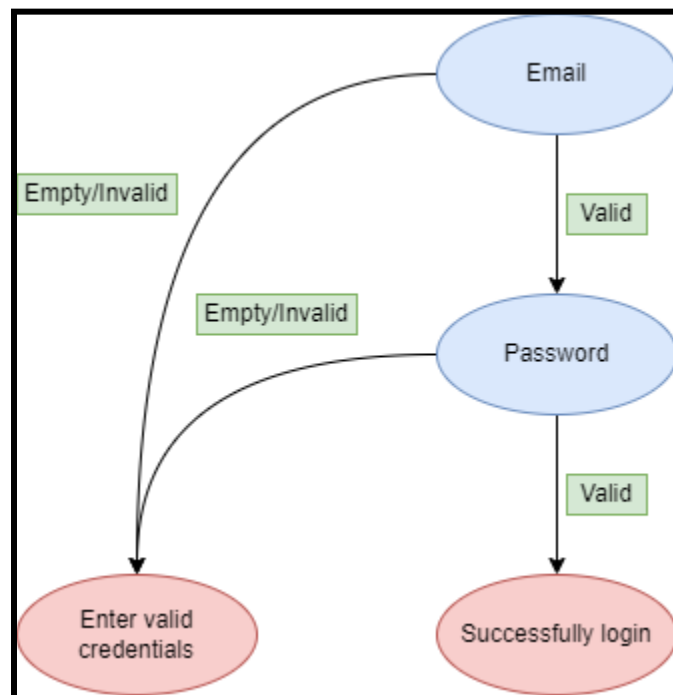
### Test cases

Test Case ID	Partition ID	Email address	Password	Expected output
1	E1	202001276@daiict.ac.in	Chalodiya@76	Success Redirect
2	E1	202001265@daiict.ac.in	Sanghani\$65	Success Redirect
3	E1	202001274@daiict.ac.in	Archit#74	Success Redirect
4	E1	202001277@daiict.ac.in	Adhiya@77	Success Redirect
5	E2	202001272@daiict.ac.in	archit12345	Failure Redirect
6	E2	202001241@daiict.ac.in	Abc@1	Failure Redirect
7	E2	202001265@daiict.ac.in	kishansanghani65	Failure Redirect
8	E2	202001276@daiict.ac.in	omchalodiya	Failure Redirect
9	E3	202001265@gmail.com	Chalodiya@76	Failure Redirect
10	E3	199901526@daiict.ac.in	Sanghani\$65	Failure Redirect
11	E3	22222222@daiict.ac.in	Archit#74	Failure Redirect
12	E3	ksangani@daiict.ac.in	Adhiya@77	Failure Redirect
13	E4	102001272@daiict.ac.in	archit12345	Failure Redirect
14	E4	2020012721@daiict.com	Abc@1	Failure Redirect
15	E4	19991212@gmail.com	kishansanghani65	Failure Redirect
16	E4	202001272@gmail.com	omchalodiya	Failure Redirect

**NOTE: Success Redirect:** Redirect to the dashboard  
**Failure Redirect:** Redirect to the login page

## Decision Table-Based Testing

C1: Email empty?	Yes	No			
C2: Password empty?	-	Yes	No		
C3: Valid email?		-	No	Yes	
C4: Valid Password?			-	No	Yes
A1: Successfully login					<input checked="" type="checkbox"/>
A2: Enter valid credentials	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	



## Password:

### Equivalence class partitioning

Partition ID	Length	Digit	Uppercase	Lowercase	Special character	Status
E1	>=6 & <=64	>=1	>=1	>=1	>=1	Valid
E2	>=6 & <=64	>=1	>=1	>=1	<1	Invalid
E3	>=6 & <=64	>=1	>=1	<1	>=1	Invalid
E4	>=6 & <=64	>=1	>=1	<1	<1	Invalid
E5	>=6 & <=64	>=1	<1	>=1	>=1	Invalid
E6	>=6 & <=64	>=1	<1	>=1	<1	Invalid
E7	>=6 & <=64	>=1	<1	<1	>=1	Invalid
E8	>=6 & <=64	>=1	<1	<1	<1	Invalid
E9	>=6 & <=64	<1	>=1	>=1	>=1	Invalid
E10	>=6 & <=64	<1	>=1	>=1	<1	Invalid
E11	>=6 & <=64	<1	>=1	<1	>=1	Invalid
E12	>=6 & <=64	<1	>=1	<1	<1	Invalid
E13	>=6 & <=64	<1	<1	>=1	>=1	Invalid
E14	>=6 & <=64	<1	<1	>=1	<1	Invalid
E15	>=6 & <=64	<1	<1	<1	>=1	Invalid
E16	>=6 & <=64	<1	<1	<1	<1	Not possible
E17	<6 or >64	>=1	>=1	>=1	>=1	Invalid
E18	<6 or >64	>=1	>=1	>=1	<1	Invalid
E19	<6 or >64	>=1	>=1	<1	>=1	Invalid
E20	<6 or >64	>=1	>=1	<1	<1	Invalid
E21	<6 or >64	>=1	<1	>=1	>=1	Invalid
E22	<6 or >64	>=1	<1	>=1	<1	Invalid
E23	<6 or >64	>=1	<1	<1	>=1	Invalid

E24	<6 or >64	>=1	<1	<1	<1	Invalid
E25	<6 or >64	<1	>=1	>=1	>=1	Invalid
E26	<6 or >64	<1	>=1	>=1	<1	Invalid
E27	<6 or >64	<1	>=1	<1	>=1	Invalid
E28	<6 or >64	<1	>=1	<1	<1	Invalid
E29	<6 or >64	<1	<1	>=1	>=1	Invalid
E30	<6 or >64	<1	<1	>=1	<1	Invalid
E31	<6 or >64	<1	<1	<1	>=1	Invalid
E32	<6 or >64	<1	<1	<1	<1	Not possible

## Test Cases

Test Case ID	Password	Status
1	Testing@1234	Valid
2	Testing1234	Invalid
3	TESTING@123	Invalid
4	TESTING123	Invalid
5	testing@123	Invalid
6	testing123	Invalid
7	123@\$	Invalid
8	123	Invalid
9	Testing@test	Invalid
10	Testingtest	Invalid
11	TESTING@TT	Invalid
12	TESTING	Invalid
13	testing@@	Invalid
14	testingtest	Invalid
15	@#\$\$\$#@	Invalid

16	-	Not Possible
17	Tst@3	Invalid
18	Tst13	Invalid
19	TST@3	Invalid
20	TST13	Invalid
21	tst@3	Invalid
22	tst13	Invalid
23	@123	Invalid
24	123	Invalid
25	Test@	Invalid
26	Test	Invalid
27	TEST@	Invalid
28	TEST	Invalid
29	test@	Invalid
30	test	Invalid
31	@\$%#	Invalid
32	-	Not Possible

### Boundary Value Analysis

Test Case ID	Length	Digit	Uppercase	Lowercase	Special character	Status
1	6	0	0	0	0	Not Possible
2	6	0	0	0	1	Not Possible
3	6	0	0	0	2	Not Possible
4	6	0	0	1	0	Not Possible
5	6	0	0	1	1	Not Possible
6	6	0	0	1	2	Not Possible

7	6	0	0	2	0	Not Possible
8	6	0	0	2	1	Not Possible
9	6	0	0	2	2	Not Possible
10	6	0	1	0	0	Not Possible
11	6	0	1	0	1	Not Possible
12	6	0	1	0	2	Not Possible
13	6	0	1	1	0	Not Possible
14	6	0	1	1	1	Not Possible
15	6	0	1	1	2	Not Possible
16	6	0	1	2	0	Not Possible
17	6	0	1	2	1	Not Possible
18	6	0	1	2	2	Not Possible
19	6	0	2	0	0	Not Possible
20	6	0	2	0	1	Not Possible
21	6	0	2	0	2	Not Possible
22	6	0	2	1	0	Not Possible
23	6	0	2	1	1	Not Possible
24	6	0	2	1	2	Not Possible
25	6	0	2	2	0	Not Possible
26	6	0	2	2	1	Not Possible
27	6	0	2	2	2	Invalid
28	6	1	0	0	0	Not Possible
29	6	1	0	0	1	Not Possible
30	6	1	0	0	2	Not Possible
31	6	1	0	1	0	Not Possible
32	6	1	0	1	1	Not Possible

33	6	1	0	1	2	Not Possible
34	6	1	0	2	0	Not Possible
35	6	1	0	2	1	Not Possible
36	6	1	0	2	2	Not Possible
37	6	1	1	0	0	Not Possible
38	6	1	1	0	1	Not Possible
39	6	1	1	0	2	Not Possible
40	6	1	1	1	0	Not Possible
41	6	1	1	1	1	Not Possible
42	6	1	1	1	2	Not Possible
43	6	1	1	2	0	Not Possible
44	6	1	1	2	1	Not Possible
45	6	1	1	2	2	Valid
46	6	1	2	0	0	Not Possible
47	6	1	2	0	1	Not Possible
48	6	1	2	0	2	Not Possible
49	6	1	2	1	0	Not Possible
50	6	1	2	1	1	Not Possible
51	6	1	2	1	2	Valid
52	6	1	2	2	0	Not Possible
53	6	1	2	2	1	Valid
54	6	1	2	2	2	Not Possible
55	6	2	0	0	0	Not Possible
56	6	2	0	0	1	Not Possible
57	6	2	0	0	2	Not Possible
58	6	2	0	1	0	Not Possible



59	6	2	0	1	1	Not Possible
60	6	2	0	1	2	Not Possible
61	6	2	0	2	0	Not Possible
62	6	2	0	2	1	Not Possible
63	6	2	0	2	2	Invalid
64	6	2	1	0	0	Not Possible
65	6	2	1	0	1	Not Possible
66	6	2	1	0	2	Not Possible
67	6	2	1	1	0	Not Possible
68	6	2	1	1	1	Not Possible
69	6	2	1	1	2	Valid
70	6	2	1	2	0	Not Possible
71	6	2	1	2	1	Valid
72	6	2	1	2	2	Not Possible
73	6	2	2	0	0	Not Possible
74	6	2	2	0	1	Not Possible
75	6	2	2	0	2	Invalid
76	6	2	2	1	0	Not Possible
77	6	2	2	1	1	Valid
78	6	2	2	1	2	Not Possible
79	6	2	2	2	0	Invalid
80	6	2	2	2	1	Not Possible
81	6	2	2	2	2	Not Possible
82	7	0	0	0	0	Not Possible
83	7	0	0	0	1	Not Possible
84	7	0	0	0	2	Not Possible

85	7	0	0	1	0	Not Possible
86	7	0	0	1	1	Not Possible
87	7	0	0	1	2	Not Possible
88	7	0	0	2	0	Not Possible
89	7	0	0	2	1	Not Possible
90	7	0	0	2	2	Not Possible
91	7	0	1	0	0	Not Possible
92	7	0	1	0	1	Not Possible
93	7	0	1	0	2	Not Possible
94	7	0	1	1	0	Not Possible
95	7	0	1	1	1	Not Possible
96	7	0	1	1	2	Not Possible
97	7	0	1	2	0	Not Possible
98	7	0	1	2	1	Not Possible
99	7	0	1	2	2	Not Possible
100	7	0	2	0	0	Not Possible
101	7	0	2	0	1	Not possible
102	7	0	2	0	2	Not possible
103	7	0	2	1	0	Not possible
104	7	0	2	1	1	Not possible
105	7	0	2	1	2	Not possible
106	7	0	2	2	0	Not possible
107	7	0	2	2	1	Not possible
108	7	0	2	2	2	Not possible
109	7	1	0	0	0	Not possible
110	7	1	0	0	1	Not possible

111	7	1	0	0	2	Not possible
112	7	1	0	1	0	Not possible
113	7	1	0	1	1	Not possible
114	7	1	0	1	2	Not possible
115	7	1	0	2	0	Not possible
116	7	1	0	2	1	Not possible
117	7	1	0	2	2	Not possible
118	7	1	1	0	0	Not possible
119	7	1	1	0	1	Not possible
120	7	1	1	0	2	Not possible
121	7	1	1	1	0	Not possible
122	7	1	1	1	1	Not possible
123	7	1	1	1	2	Not possible
124	7	1	1	2	0	Not possible
125	7	1	1	2	1	Not possible
126	7	1	1	2	2	Not possible
127	7	1	2	0	0	Not possible
128	7	1	2	0	1	Not possible
129	7	1	2	0	2	Not possible
130	7	1	2	1	0	Not possible
131	7	1	2	1	1	Not possible
132	7	1	2	1	2	Not possible
133	7	1	2	2	0	Not possible
134	7	1	2	2	1	Not possible
135	7	1	2	2	2	Valid
136	7	2	0	0	0	Not possible

137	7	2	0	0	1	Not possible
138	7	2	0	0	2	Not possible
139	7	2	0	1	0	Not possible
140	7	2	0	1	1	Not possible
141	7	2	0	1	2	Not possible
142	7	2	0	2	0	Not possible
143	7	2	0	2	1	Not possible
144	7	2	0	2	2	Not possible
145	7	2	1	0	0	Not possible
146	7	2	1	0	1	Not possible
147	7	2	1	0	2	Not possible
148	7	2	1	1	0	Not possible
149	7	2	1	1	1	Not possible
150	7	2	1	1	2	Not possible
151	7	2	1	2	0	Not possible
152	7	2	1	2	1	Not possible
153	7	2	1	2	2	Valid
154	7	2	2	0	0	Not possible
155	7	2	2	0	1	Not possible
156	7	2	2	0	2	Not possible
157	7	2	2	1	0	Not possible
158	7	2	2	1	1	Not possible
159	7	2	2	1	2	Valid
160	7	2	2	2	0	Not possible
161	7	2	2	2	1	Valid
162	7	2	2	2	2	Not possible

163	5	0	0	0	0	Not possible
164	5	0	0	0	1	Not possible
165	5	0	0	0	2	Not possible
166	5	0	0	1	0	Not possible
167	5	0	0	1	1	Not possible
168	5	0	0	1	2	Not possible
169	5	0	0	2	0	Not possible
170	5	0	0	2	1	Not possible
171	5	0	0	2	2	Not possible
172	5	0	1	0	0	Not possible
173	5	0	1	0	1	Not possible
174	5	0	1	0	2	Not possible
175	5	0	1	1	0	Not possible
176	5	0	1	1	1	Not possible
177	5	0	1	1	2	Not possible
178	5	0	1	2	0	Not possible
179	5	0	1	2	1	Not possible
180	5	0	1	2	2	Invalid
181	5	0	2	0	0	Not possible
182	5	0	2	0	1	Not possible
183	5	0	2	0	2	Not possible
184	5	0	2	1	0	Not possible
185	5	0	2	1	1	Not possible
186	5	0	2	1	2	Invalid
187	5	0	2	2	0	Not possible
188	5	0	2	2	1	Invalid

189	5	0	2	2	2	Not possible
190	5	1	0	0	0	Not possible
191	5	1	0	0	1	Not possible
192	5	1	0	0	2	Not possible
193	5	1	0	1	0	Not possible
194	5	1	0	1	1	Not possible
195	5	1	0	1	2	Not possible
196	5	1	0	2	0	Not possible
197	5	1	0	2	1	Not possible
198	5	1	0	2	2	Invalid
199	5	1	1	0	0	Not possible
200	5	1	1	0	1	Not possible
201	5	1	1	0	2	Not possible
202	5	1	1	1	0	Not possible
203	5	1	1	1	1	Not possible
204	5	1	1	1	2	Invalid
205	5	1	1	2	0	Not possible
206	5	1	1	2	1	Invalid
207	5	1	1	2	2	Not possible
208	5	1	2	0	0	Not possible
209	5	1	2	0	1	Not possible
210	5	1	2	0	2	Invalid
211	5	1	2	1	0	Not possible
212	5	1	2	1	1	Invalid
213	5	1	2	1	2	Not possible
214	5	1	2	2	0	Invalid

215	5	1	2	2	1	Not possible
216	5	1	2	2	2	Not possible
217	5	2	0	0	0	Not possible
218	5	2	0	0	1	Not possible
219	5	2	0	0	2	Not possible
220	5	2	0	1	0	Not possible
221	5	2	0	1	1	Not possible
222	5	2	0	1	2	Invalid
223	5	2	0	2	0	Not possible
224	5	2	0	2	1	Invalid
225	5	2	0	2	2	Not possible
226	5	2	1	0	0	Not possible
227	5	2	1	0	1	Not possible
228	5	2	1	0	2	Invalid
229	5	2	1	1	0	Not possible
230	5	2	1	1	1	Invalid
231	5	2	1	1	2	Not Possible
232	5	2	1	2	0	Invalid
233	5	2	1	2	1	Not Possible
234	5	2	1	2	2	Not Possible
235	5	2	2	0	0	Not Possible
236	5	2	2	0	1	Invalid
237	5	2	2	0	2	Not Possible
238	5	2	2	1	0	Invalid
239	5	2	2	1	1	Not Possible
240	5	2	2	1	2	Not Possible

241	5	2	2	2	0	Not Possible
242	5	2	2	2	1	Not Possible
243	5	2	2	2	2	Not Possible

### Decision Table-Based Testing

C1: Length $\geq 6$ & $\leq 64$ ?	No	Yes				
C2: No. of digits $\geq 1$ ?	-	No	Yes			
C3: No. of uppercase char $\geq 1$ ?		-	No	Yes		
C4: No. of lowercase char $\geq 1$ ?			-	No	Yes	
C5: No. of special char $\geq 1$ ?				-	No	Yes
A1: Successfully login						<input checked="" type="checkbox"/>
A2: Enter strong password	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	



