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# ASSIGNMENT#1

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Case Study



OCTOBER 5, 2020

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## Case Study: Online Clinic workflow:

### 1. Introduction:

This system will be designed to improve clinical workflow. It will connect patient and clinic online. Nowadays no one has time to visit clinic and wait for appointment. This system will help for getting online appointments. Patient can get appointment through Internet.

The purpose of this document is to provide patients this facility that they can get appointment from their home. They do not have to visit clinic just to get appointment. Everyone is busy now a days, no one has time to visit clinic for appointment. As well as patient's medical history will be saved on this system so every time when patient visit doctor so he/she does not have to bring medical report along or doctor does not have to check B.P or weight etc. The software includes maintaining patient details, provide prescriptions, precautions and diet advice. Providing and maintaining all kinds of tests for a patient.

This system will reduce patient and doctor's work. Patient doesn't have to visit hospital to get appointment. It will save a lot of time.

### 2. Functions:

`void Login (String username, String pin);`

This function verifies the username and pin entered by the user. And if the username and pin does not match with the username and pin stored in the database then he will have to re-enter the username and pin till he enters the correct username and password.

`void getAppointment (String name, Date date);`

In this function the user will request for appointment. He will enter date for that appointment. Then the appointment will be reserved for the specific date.

`void registerPatient (String name, String pin, String mobile);`

This function allows user to register himself in the system. He will have to enter name, pin and mobile. Then he will get registered in the system.

### 3. Black box Testing:

Worst BVA:

Function 1:

Total cases =  $5^1 = 5$

Min: 0

Min+1: 1

Normal: 50000

Max -1: 99998

Max: 99999

Case	pin	Expected output
1	0	Invalid
2	24324	Valid
3	34643	Valid
4	59786	Valid
5	99999	Invalid

Function 2:

Total cases =  $5^1 = 5$

Min: a

Min + 1: b

Normal: h

Max-1: y

Max: z

Case	name	Expected output
1	Hamza	Valid
2	Fahad	Valid
3	a	Invalid
4	Ali	Valid
5	z	Invalid

Function 3:

**Input values of name:**

Min: a

Min + 1: b

Normal: h

Max-1: y

Max: z

**Input values of pin:**

Min: 0

Min+1: 1

Normal: 50000

Max -1: 99998

Max: 99999

**Input values of email:**

Min: a

Min + 1: b

Normal: h

Max-1: y

Max: z

Case	name	pin	email	Expected output
1	Ali	00000	Bse301053@cust.pk	Invalid
2	Ali	00001	Bse301053@cust.pk	Valid
3	Ali	00002	Bse301053@cust.pk	Valid
4	Ali	00003	Bse301053@cust.pk	Valid
5	Ali	00005	Bse301053@cust.pk	Valid
6	Ali	00006	Bse301053@cust.pk	Valid
7	Ali	00007	Bse301053@cust.pk	Valid
8	Ali	00008	Bse301053@cust.pk	Valid
9	Ali	00009	Bse301053@cust.pk	Valid
10	Ali	000010	Bse301053@cust.pk	Valid
11	Ali	00011	Bse301053@cust.pk	Valid
12	Ali	00012	Bse301053@cust.pk	Valid
13	Ali	00013	Bse301053@cust.pk	Valid
14	Ali	00014	Bse301053@cust.pk	Valid
15	Ali	00015	Bse301053@cust.pk	Valid
16	Ali	00016	Bse301053@cust.pk	Valid
17	Ali	00017	Bse301053@cust.pk	Valid
18	Ali	00018	Bse301053@cust.pk	Valid

19	Ali	00019	Bse301053@cust.pk	Valid
20	Ali	00020	Bse301053@cust.pk	Valid
21	Ali	00021	Bse301053@cust.pk	Valid
22	Ali	00022	Bse301053@cust.pk	Valid
23	Ali	00023	Bse301053@cust.pk	Valid
24	Ali	00024	Bse301053@cust.pk	Valid
25	Ali	00025	Bse301053@cust.pk	Valid
26	Hamza	00026	Bse181053@cust.pk	Valid
27	Hamza	00027	<a href="mailto:Bse181053@cust.pk">Bse181053@cust.pk</a>	Valid
28	Hamza	00028	<a href="mailto:Bse181053@cust.pk">Bse181053@cust.pk</a>	Valid
29	Hamza	00029	<a href="mailto:Bse181053@cust.pk">Bse181053@cust.pk</a>	Valid
30	Hamza	00030	<a href="mailto:Bse181053@cust.pk">Bse181053@cust.pk</a>	Valid
31	Hamza	00031	<a href="mailto:Bse181053@cust.pk">Bse181053@cust.pk</a>	Valid
32	Hamza	00032	<a href="mailto:Bse181053@cust.pk">Bse181053@cust.pk</a>	Valid
33	Hamza	12300	<a href="mailto:Bse181053@cust.pk">Bse181053@cust.pk</a>	Valid
34	Hamza	12311	<a href="mailto:Bse181053@cust.pk">Bse181053@cust.pk</a>	Valid
35	Hamza	12323	<a href="mailto:Bse181053@cust.pk">Bse181053@cust.pk</a>	Valid
36	Hamza	12367	<a href="mailto:Bse181053@cust.pk">Bse181053@cust.pk</a>	Valid
37	Hamza	12343	<a href="mailto:Bse181053@cust.pk">Bse181053@cust.pk</a>	Valid
38	Hamza	12327	<a href="mailto:Bse181053@cust.pk">Bse181053@cust.pk</a>	Valid
39	Hamza	34560	<a href="mailto:Bse181053@cust.pk">Bse181053@cust.pk</a>	Valid
40	Hamza	34561	<a href="mailto:Bse181053@cust.pk">Bse181053@cust.pk</a>	Valid
41	Hamza	34562	<a href="mailto:Bse181053@cust.pk">Bse181053@cust.pk</a>	Valid
42	Hamza	34563	<a href="mailto:Bse181053@cust.pk">Bse181053@cust.pk</a>	Valid
43	Hamza	34564	<a href="mailto:Bse181053@cust.pk">Bse181053@cust.pk</a>	Valid
44	Hamza	34565	<a href="mailto:Bse181053@cust.pk">Bse181053@cust.pk</a>	Valid
45	Hamza	34566	<a href="mailto:Bse181053@cust.pk">Bse181053@cust.pk</a>	Valid
46	Hamza	34567	<a href="mailto:Bse181053@cust.pk">Bse181053@cust.pk</a>	Valid
47	Hamza	34568	<a href="mailto:Bse181053@cust.pk">Bse181053@cust.pk</a>	Valid
48	Hamza	34569	<a href="mailto:Bse181053@cust.pk">Bse181053@cust.pk</a>	Valid
49	Hamza	34510	<a href="mailto:Bse181053@cust.pk">Bse181053@cust.pk</a>	Valid
50	Hamza	67800	Bse181053@cust.pk	Valid
51	Fahad	67890	Bse181056@cust.pk	Valid
52	Fahad	67891	<a href="mailto:Bse181056@cust.pk">Bse181056@cust.pk</a>	Valid
53	Fahad	67892	<a href="mailto:Bse181056@cust.pk">Bse181056@cust.pk</a>	Valid
54	Fahad	67893	<a href="mailto:Bse181056@cust.pk">Bse181056@cust.pk</a>	Valid
55	Fahad	67894	<a href="mailto:Bse181056@cust.pk">Bse181056@cust.pk</a>	Valid
56	Fahad	67895	<a href="mailto:Bse181056@cust.pk">Bse181056@cust.pk</a>	Valid
57	Fahad	67896	<a href="mailto:Bse181056@cust.pk">Bse181056@cust.pk</a>	Valid
58	Fahad	67897	<a href="mailto:Bse181056@cust.pk">Bse181056@cust.pk</a>	Valid
59	Fahad	67897	<a href="mailto:Bse181056@cust.pk">Bse181056@cust.pk</a>	Valid
60	Fahad	99999	<a href="mailto:Bse181056@cust.pk">Bse181056@cust.pk</a>	Invalid

