

Assignment#1

Case Study



October 5, 2020

Bse181053\_Hamza Shahzad

BSE181056\_FAHAD ALI

[Case Study: Online Clinic workflow: 2](#_Toc52778763)

[1. Introduction: 2](#_Toc52778764)

[2. Functions: 2](#_Toc52778765)

[void Login (String username, String pin); 2](#_Toc52778766)

[void getAppointment (String name, Date date); 2](#_Toc52778767)

[void registerPatient (String name, String pin, String mobile); 2](#_Toc52778768)

[3. Black box Testing: 2](#_Toc52778769)

[Worst BVA: 2](#_Toc52778770)

[Function 1: 2](#_Toc52778771)

[Function 2: 3](#_Toc52778772)

[Function 3: 3](#_Toc52778773)

# Case Study: Online Clinic workflow:

# 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.

# 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.

# 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 | [Bse181053@cust.pk](mailto:Bse181053@cust.pk) | Valid |
| 28 | Hamza | 00028 | [Bse181053@cust.pk](mailto:Bse181053@cust.pk) | Valid |
| 29 | Hamza | 00029 | [Bse181053@cust.pk](mailto:Bse181053@cust.pk) | Valid |
| 30 | Hamza | 00030 | [Bse181053@cust.pk](mailto:Bse181053@cust.pk) | Valid |
| 31 | Hamza | 00031 | [Bse181053@cust.pk](mailto:Bse181053@cust.pk) | Valid |
| 32 | Hamza | 00032 | [Bse181053@cust.pk](mailto:Bse181053@cust.pk) | Valid |
| 33 | Hamza | 12300 | [Bse181053@cust.pk](mailto:Bse181053@cust.pk) | Valid |
| 34 | Hamza | 12311 | [Bse181053@cust.pk](mailto:Bse181053@cust.pk) | Valid |
| 35 | Hamza | 12323 | [Bse181053@cust.pk](mailto:Bse181053@cust.pk) | Valid |
| 36 | Hamza | 12367 | [Bse181053@cust.pk](mailto:Bse181053@cust.pk) | Valid |
| 37 | Hamza | 12343 | [Bse181053@cust.pk](mailto:Bse181053@cust.pk) | Valid |
| 38 | Hamza | 12327 | [Bse181053@cust.pk](mailto:Bse181053@cust.pk) | Valid |
| 39 | Hamza | 34560 | [Bse181053@cust.pk](mailto:Bse181053@cust.pk) | Valid |
| 40 | Hamza | 34561 | [Bse181053@cust.pk](mailto:Bse181053@cust.pk) | Valid |
| 41 | Hamza | 34562 | [Bse181053@cust.pk](mailto:Bse181053@cust.pk) | Valid |
| 42 | Hamza | 34563 | [Bse181053@cust.pk](mailto:Bse181053@cust.pk) | Valid |
| 43 | Hamza | 34564 | [Bse181053@cust.pk](mailto:Bse181053@cust.pk) | Valid |
| 44 | Hamza | 34565 | [Bse181053@cust.pk](mailto:Bse181053@cust.pk) | Valid |
| 45 | Hamza | 34566 | [Bse181053@cust.pk](mailto:Bse181053@cust.pk) | Valid |
| 46 | Hamza | 34567 | [Bse181053@cust.pk](mailto:Bse181053@cust.pk) | Valid |
| 47 | Hamza | 34568 | [Bse181053@cust.pk](mailto:Bse181053@cust.pk) | Valid |
| 48 | Hamza | 34569 | [Bse181053@cust.pk](mailto:Bse181053@cust.pk) | Valid |
| 49 | Hamza | 34510 | [Bse181053@cust.pk](mailto:Bse181053@cust.pk) | Valid |
| 50 | Hamza | 67800 | Bse181053@cust.pk | Valid |
| 51 | Fahad | 67890 | Bse181056@cust.pk | Valid |
| 52 | Fahad | 67891 | [Bse181056@cust.pk](mailto:Bse181056@cust.pk) | Valid |
| 53 | Fahad | 67892 | [Bse181056@cust.pk](mailto:Bse181056@cust.pk) | Valid |
| 54 | Fahad | 67893 | [Bse181056@cust.pk](mailto:Bse181056@cust.pk) | Valid |
| 55 | Fahad | 67894 | [Bse181056@cust.pk](mailto:Bse181056@cust.pk) | Valid |
| 56 | Fahad | 67895 | [Bse181056@cust.pk](mailto:Bse181056@cust.pk) | Valid |
| 57 | Fahad | 67896 | [Bse181056@cust.pk](mailto:Bse181056@cust.pk) | Valid |
| 58 | Fahad | 67897 | [Bse181056@cust.pk](mailto:Bse181056@cust.pk) | Valid |
| 59 | Fahad | 67897 | [Bse181056@cust.pk](mailto:Bse181056@cust.pk) | Valid |
| 60 | Fahad | 99999 | [Bse181056@cust.pk](mailto:Bse181056@cust.pk) | Invalid |