**Test Case Design Techniques**

**Task Description**:

Q1. You are testing a form that allows users to schedule appointments with a doctor. The

form has the following fields: first name, last name, email, phone number, and appointment

date/time. Some more inputs:

© If any field is blank, we should display "All fields are required"

© If any email is invalid, we should display "Please enter a valid email"

© If the phone number is invalid, we should display "Please enter a valid phone number"

© If the appointment date/time is not available, it should display "Please choose another

date/time"

© If all fields are correct and the appointment is available, we should schedule the

appointment successfully.

For these requirements write down the correct list of conditions in form of decision table

**Test case design techniques:**

The type of test case design techniques are,

1. Equivalence class partition (ECP).

2. Boundary value analysis (BVA).

3. Decision table testing.

4. State transition testing.

5. Use case testing.

Q2. Suppose you are a software tester and you are assigned to test a new mobile app that

has just been developed. The app has three different user roles: basic user, premium user,

and admin user. You have been given the following three test scenarios to execute:

© Basic users can only access limited features of the app, while premium users can access

all features. Admin users have access to advanced settings and can perform all actions.

© Users should be able to create and delete their accounts successfully. Passwords must

meet the required complexity standards and users should receive a confirmation email

upon successful account creation.

© Users should be able to navigate through the app seamlessly without any crashes or

performance issues. The app should also display appropriate error messages when a user attempts to perform an action they are not authorized to perform.

For each of the test scenarios, describe the steps you would take to test them and the expected results.

Mobile App-Test Scenarios for users:

1. Check application can open and close.
2. Check the default application are present on the mobile.
3. check if the user can launch the application.
4. check if the user can able to log in the application.
5. check that the Wi-Fi enables and shows a list of the connecting list available or able to see available networks, when on wifi.
6. check whether enabling WI-FI can connect or not and once it is shown a connected WI-FI name.
7. check whether the wifi setting is enabled or not and show a dropdown list of settings.
8. check if the wifi can be disabled or not.
9. verify that the sound, vibration and mute have shown in the display.
10. check whether the volume can adjust or not. like being able to increase and decrease a volume.
11. verify whether the application goes into a minimized mode at the time of getting notifications, phone calls etc…
12. verify whether the scrolling function is working or not.
13. verify that the text on the mobile app is readable and clear.
14. check that the app supports image capturing.
15. Verify all required fields-username, email, and password to log in to the page.
16. Verify that on passing valid values and user is allowed to log in to the application.
17. Verify if a user cannot log in with a valid username and password.
18. Verify the user is able to log in with a new password after the old password.
19. Verify whether the enter key is working or not.
20. Check if the notification is getting after the account is created successfully or not.