COURSE: CSE2101 – SOFTWARE ENGINEERING 1

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SUBMISSION: #4 - SYSTEM TESTING

TEST CASE

The test case table below is the first of twenty-one (21) test cases done on the "Make Treatment" functionality of the Clinic Management System. This test case did not utilize the "add prescription" or "schedule visit" or any other functionality on the interface since this is the initial test for this particular form on the interface.

Test Case ID	TC_MP-1A
Test Priority (Low/Medium/High):	High
Test Title / Name	Make treatment for patient (Outpatient) – Treatment Details
Test Summary / Description	This functionality will let the user create or "make" treatment for the patient. This test is for outpatient treatment only. This test is only done on the treatment details form of the interface.
Pre-conditions	1. The user must log into the system using a valid user (Doctor) ID and password. 2. The user must access the patient's file using their full name and ID. (Doctor must review patient history for diagnosis or make (new) diagnosis.)
Dependencies	1. TC_UL-1A, TC_UL-1B, TC_UL-1C, and TC_UL-1D test cases must be successful/functional to carry out this test. 2. TC_VP-1, TC_VPH-1A, TC_VPH-1M, TC_UI_AD, and TC_UI_VD test cases must be successful to be able to commence this test case.
Test Steps	1. System prompts a dialog box on the interface for entering the patient's full name and Id. 2. The user enters the patient's full name and ID and then clicks on "Submit" button at the bottom center of the dialog box. 3. The "Patient Account" interface is prompted. 4. The user clicks on the "Patient History" button on the top ribbon.

	5. The "Patient History" interface is prompted. 6. On the "Patient History" interface the user clicks on "Make Treatment" button at the bottom of the interface below the "Enter Diagnosis" button and "View Diagnoses" button. 7. Treatment form interface is displayed. 8. The user clicks on "treatment plan" drop down arrow. 9. User prompted with available options: "First-line, Second-line, Third-line, Salvage." 10. User clicks on "First-Line" option. 11. The treatment form is greyed out user can't manipulate the interface. The user is prompted with the "OP" and "IP" buttons on the top left of the interface below the ribbon. 12. The user clicks on the "OP" button. 13. Some fields in the form become live with colour. 14. The user can now manipulate fields. 15. The user then enters the treatment details into the form of the interface. 16. User navigates over buttons of available options, e.g., "Add Prescription", "Schedule Visit", etc. 17. The user clicks on "Submit" button.
Test Data	User_id = JoSmi_doc00379 User_password = taitw150798 Patient_fullname = "Jane Doe" Patient_id = p00000001 Treatment details: Should have thirteen (13) hours bed rest daily. No solid foods. Should not consume alcohol or smoke. Should not operate any vehicle or machinery. No strenuous activities. Etc. (The test data for the treatment above is very generic. This information is only used to test for effective functionality of treatment description form.)
Expected Results	1. System displays "Treatment is successfully added" dialog box.

	2. System transitions or loads the "Patient History".
Post Condition	The new treatment is either added or updated to the patient's file in the database. The system timestamps the operation.

The test case IDs mentioned in the dependencies field of the table above are:

1. TC_UL-1A – User Login Test Case (Positive)

   This test case is responsible for testing the login interface with valid credentials.

2. TC_UL-1B - User Login Test Case (Negative)

   This test case is for testing the user login with invalid credentials.

3. TC_UL-1C – User Login Test Case for Role Access

   This test case is for testing the giving role access of the user. It checks to see what user interface and/or is prompted to user after login.

4. TC_UL-1D – User Login Test for DB Admin Role Access

   This test case is for testing the role access of the super user or DB Admin.

5. TC_VP-1 – View Patient Test Case
   This test case is for testing interface to access patient file after patient full name and ID input.

6. TC_VPH-1A – View All Patient History
   This test case checks for successful access and rendering of patient history details on interface.

7. TC_UI_AD – Add Diagnosis
   Tests for successful entry of diagnosis add to patient file from interface.

8. TC_UI_VD – View Patient Diagnoses
   Tests for the successful display of diagnosis or diagnoses previously made by doctor.

Note: The "Add Prescription" and "Schedule Visit" options are not tested in this case. The tests for these are done separately and then as a single case instance as "TC_MP-12R – Make Treatment (Full Form)".

Explanation for the treatment types options in Step 9 of the Test Steps category:

First-line treatment – (also called first-line therapy,) is a medical therapy that is prescribed for the first treatment of an illness, sign, or symptom, generally based on empirical proof of effectiveness.

Second-line treatment - Therapy for an illness or condition after the first (first-line) treatment has failed, ceased functioning, or has intolerable adverse effects.

Third-line treatment – This is usually defined as a regimen for a person who has developed resistance to both first-line and second-line treatment, or the treatment has been ineffective for the patient's current illness.

Salvage treatment - Salvage therapy includes drugs or procedures that are known to have more severe adverse effects than previous therapies. Salvage therapy can also take the shape of experimental drugs, surgeries, or treatments that are being studied for a specific ailment.