

MediConnection

Test Plan

I. Test Scope:

a. White Box Testing: Data Flow

- i. This will be done to test the alternative paths data can take within the different points in our program. We will ensure testing all variables and parameters.

b. Black Box Testing:

- i. We will perform interface testing and check if the program component accepts input passed to it in the proper order and data format and returns the same in proper order and data format.
- ii. We will also perform boundary value analysis.

II. Approach and Objectives

Test Name	Description and Objective
Unit Test	Testing each unit individually
Integration Test	Performed on subunits that form clusters to check all functionality
Regression Test	Performed after any modifications to make sure any function didn't get affected by the same
Validation Test - Alpha	Tests to be performed on the deployed system (Alpha test) to make sure the requirements are met
Validation Test - Beta	To gauge user experience reviews and identify missed test cases
Navigation Test	To ensure that the mechanisms that allow the WebApp user to travel through the WebApp are all functional
Interface Test	Performed on front-end to uncover errors related to interface mechanisms (input/output).

III. Resources

Resource	Version
MongoDB	3.6.6
React	17.0.2
Express	4.17.1
HTMLUnit	3.1.0

IV. Test Roles and Criteria

Member	Role
Areeb	Test Designer
Fatema	Tester
Randy	Tester
Mbebo	Tester

The criteria for the Tester to decide whether the test is a Pass or Fail: Each functionality for the use cases should work as expected without any evident bugs or unexpected outputs.

V. Test Schedule

Test Name	Date (DD/MM/YYYY)
Unit Test	30/04/2023
Integration Test	30/04/2023
Regression Test	30/04/2023
Validation Test - Alpha	30/04/2023
Validation Test - Beta	02/05/2023
Navigation Test	02/05/2023
Interface Test	02/05/2023