**Testing Model Document**

**for**

**+Health**

## Version 1.0 Approved

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**Revision History**

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1. **Introduction**

A test case is a set of actions executed to verify a particular feature or functionality of your software application. A Test Case contains test steps, test data, precondition, postcondition developed for specific test scenario to verify any requirement. The test case includes specific variables or conditions, using which a testing engineer can compare expected and actual results to determine whether a software product is functioning as per the requirements of the customer.

The testing process is an important phase during the software development because each small module must be tested to ensure its accuracy and validity.

* 1. **Purpose**

Software testing determines the quality of software after a programmer develops it. This process involves evaluating information that is related to a product.

* 1. **Scope**

The purpose of +Health is to ease patients’ medical information management and to create a convenient and easy-to-use application for doctors, trying to have all their patients’ medical information in a handy way. Above all, it is expected for the application to provide a comfortable user experience.

* 1. **Definitions, Acronyms and Abbreviations**
* Patient’s Medical Information: Medical general information of the patient such as height, weight, chronic diseases and clinical information.
* Patient’s Medical History: Data related to a person’s medical history, including symptoms, diagnoses, procedures, and outcomes. It also includes patient histories, lab results, x-rays, and so on.
* Patient’s Code. Unique identifier that the system assigns to a patient.  
  1. **References**

Software Requirements Specification. (2019). 2nd ed. +Health.

Analysis Model Document. (2019). 1st ed. +Health.

Design Model Document. (2019). 1st ed. +Health.

Implementation Model Document. (2019). 1st ed. +Health.

* 1. **Overview**

The remaining sections of this document shows the test reports of each use case.

1. **Overall Description**

What is +Health? +Health is an application that pretends to gather all the patients’ medical information such as chronic diseases, medical analysis, prescriptions, treatments, diagnoses and operations.

+Health purpose is to eliminate the lack of information of a patient on their medical history by having a centralized system that: 1) is able to access medical information at any given moment. 2) give access to a third party when needed. It will give a much wider and concrete insight on a patient (speaking in medical terms).

The patient will be able to access any of their medical diagnoses and treatments, mitigating misunderstandings between the parties involved. This will also improve the verification of a diagnoses and treatments from a third party, since all the information will be presented directly through the system.

Having a centralized system with all the medical history of a patient will keep misinterpretations to a minimum.

**2.1 Assumptions and Dependencies**

This system does not have any kind of dependencies.

1. **Test Report**

Test Report is needed to reflect testing results in a formal way, which gives an opportunity to estimate testing results quickly. It is a document that records data obtained from an evaluation experiment in an organized manner, describes the environmental or operating conditions, and shows the comparison of test results with test objectives.

* 1. **Create an Account**

Test Scenario ID: 1.

Test Case Description: Test Case for Create an Account Use Case (Basic Flow).

Test Execution Steps:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S. No** | **Action** | **Inputs** | **Expected Output** | **Actual**  **Output** | **Test Result** |
| 1 | The doctor selects ‘Sign Up’ and enters their account information such as name, email, password, birthdate, phone, sex, graduation date, speciality and hospital. | **first name** = Ricardo  **last name** = Luna  **email** = rica@luna.com  **password** = abc123  **birthdate** = 29/12/1999  **phone** = 123-123-4567  **sex** = male  **graduation date** = 29/11/2019  **speciality** = surgeon  **hospital** = Star Medical | Request validation of the entered information. | Request validation of the entered information. | Passed |
| 2 | The system validates the general information. | **first name** = Ricardo  **last name** = Luna  **email** = rica@luna.com  **password** = abc123  **birthdate** = 29/12/1999  **phone** = 123-123-4567  **sex** = male  **graduation date** = 29/11/2019  **speciality** = surgeon  **hospital** = Star Medical | Information validated. Upload medical certification degree screen. | Information validated. Upload medical certification degree screen. | Passed |
| 3 | The doctor uploads their medical certification degree. | **medical certification degree** = certification.pdf | Request validation of the medical certification degree. | Request validation of the medical certification degree. | Passed |
| 4 | The system validates the medical certification degree. | **medical certification degree** = certification.pdf | Medical certification degree validated. Main screen and confirmation message. | Medical certification degree validated. Main screen and confirmation message. | Passed. |

* 1. **View Patient’s Medical History**

Test Scenario ID: 1.

Test Case Description: Test Case for View Patient’s Medical History (Basic Flow)

Test Execution Steps:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S. No** | **Action** | **Inputs** | **Expected Output** | **Actual**  **Output** | **Test Result** |
| 1 | The doctor enters the patient code in order to access to their medical history. | **patient id** = 1 | Request validation of the entered information. | Request validation of the entered information. | Passed |
| 2 | The system validates the patient’s code | **patient id** = 1 | Information validated. Request access to the patient. | Information validated. Request access to the patient. | Passed |
| 3 | The patient shall give access to the doctor. | Doctor’s request to see the patient profile  (**/patient\_profile**). | Patient give access to their profile to the doctor. | Patient give access to their profile to the doctor. | Passed |
| 4 | The system retrieves the patient’s general information. | **patient id** = 1 | The system shows the patient’s general information to the doctor. | The system shows the patient’s general information to the doctor. | Passed |
| 5 | The doctor selects to see the patient’s medical history. | **patient id** = 1 | The system shows the patient’s medical history. | The system shows the patient’s medical history. | Passed |

* 1. **Create Patient’s Diagnosis**

Test Scenario ID: 1.

Test Case Description: Test Case for Create Patient’s Diagnosis (Basic Flow)

Test Execution Steps:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S. No** | **Action** | **Inputs** | **Expected Output** | **Actual**  **Output** | **Test Result** |
| 1 | The doctor selects to create a new diagnosis in the patient’s profile. | Doctor’s request to create a new diagnosis (**/view\_patient**). | Diagnosis screen. | Diagnosis screen. | Passed |
| 2 | The system asks for diagnosis information such as date and diagnosis’ description. | System’ request to enter diagnosis information (**/new\_diagnosis**). | The system shows the diagnosis’ form. | The system shows the diagnosis’ form. | Passed |
| 3 | The doctor enters the diagnosis’ information. | **date** = 29/11/2019  **description** = new diagnosis | Request validation of the entered information. | Request validation of the entered information. | Passed |
| 4 | The system validates the general information. | **date** = 29/11/2019  **description** = new diagnosis | Information validated. | Information validated. | Passed |
| 5 | The system shall attach the diagnosis’ information to the medical history. | **date** = 29/11/2019  **description** = new diagnosis | Information attached to the medical history. Confirmation message. | Information attached to the medical history. Confirmation message. | Passed |

* 1. **Create Patient’s Treatment**

Test Scenario ID: 1.

Test Case Description: Test Case for Create Patient’s Treatment (Basic Flow)

Test Execution Steps:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S. No** | **Action** | **Inputs** | **Expected Output** | **Actual**  **Output** | **Test Result** |
| 1 | The doctor selects to create a new treatment in the patient’s profile. | Doctor’s request to create a new treatment (**/view\_patient**). | Treatment screen. | Treatment screen. | Passed |
| 2 | The system asks for treatment information such as drugs, frequency, dose, administration, date and treatment description. | System’ request to enter treatment information (/**new\_treatment**). | The system shows the treatment form. | The system shows the treatment’s form. | Passed |
| 3 | The doctor enters the treatment information. | **drugs** = viagra, amitiv  **frequency** = 8 hours  **dose** = 1 mg **administration** = oral  **date** = 29/12/2019  **treatment’s description** = new treatment | Request validation of the entered information. | Request validation of the entered information. | Passed |
| 4 | The system validates the general information. | **drugs** = viagra, amitiv  **frequency** = 8 hours  **dose** = 1 mg **administration** = oral  **date** = 29/12/2019  **treatment’s description** = new treatment | Information validated. | Information validated. | Passed |
| 5 | The system shall attach the treatment information to the medical history. | **drugs** = viagra, amitiv  **frequency** = 8 hours  **dose** = 1 mg **administration** = oral  **date** = 29/12/2019  **treatment’s description** = new treatment | Information attached to the medical history. Confirmation message. | Information attached to the medical history. Confirmation message. | Passed |

* 1. **Upload Medical Studies**

Test Scenario ID: 1.

Test Case Description: Test Case for Upload Medical Studies (Basic Flow)

Test Execution Steps:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S. No** | **Action** | **Inputs** | **Expected Output** | **Actual**  **Output** | **Test Result** |
| 1 | The patient selects to upload a new medical study in their profile. | Patient’s request to upload a new medical study (**/patient\_profile**). | Upload a new medical study screen. | Upload a new medical study screen. | Passed |
| 2 | The system asks for medical study information such as filename and date. | System’ request to upload the file and enter the medical study information (**/upload\_study**). | The system shows the upload medical study form. | The system shows the upload medical study form. | Passed |
| 3 | The patient uploads the medical study and enter its information. | **medical study** = study.pdf  **date** = 29/12/2019  **filename** = study.pdf | Request validation of the entered information. | Request validation of the entered information. | Passed |
| 4 | The system validates the file and the information. | **medical study** = study.pdf  **date** = 29/12/2019  **filename** = study.pdf | Information validated. | Information validated. | Passed |
| 5 | The system shall attach the medical study and its information to the medical history. | **medical study** = study.pdf  **date** = 29/12/2019  **filename** = study.pdf | Information attached to the medical history. Confirmation message. | Information attached to the medical history. Confirmation message. | Passed |