**Test Plan**

***Stress Wearables***

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| **Date** **:** **06-10-2022** |
| **Version** **:** **0.2** |
| **State** **:** **Finished** |
| **Author** **:** **Group 1** |

**Version History**

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| **Version** | **Date** | **Author(s)** | **Changes** | **State** |
| 0.1 | 21-09-2022 | Michael | Creation of document template | First Draft. |
| 0.1 | 22-09-2022 | Michael | Addition of test cases | First Draft. |
| 0.1 | 02-10-2022 | Michael |  | Incomplete |
| 0.2 | 03-10-2022 | Michael | Addition of Expected results |  |
| 0.2 | 06-10-2022 | Michael | Addition of Precondition and Removal of some test cases |  |

# Introduction

This document formally describes the test plan for the stress wearable system. Currently, our plan contains a detailed understanding of how our app will respond to different situations it encounters and all information regarding the testing phase.

# Test Cases

The test cases will give an example/procedure of how the stress wearable system will be tested using the test data.

## Test Case View Patient Personal Data

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| **ID** | **UC** | **Name** | **Pre-condition** | **Test data** | **Expected result** |
| **TC-01** | **FRP3** | View my personal data | The patient is logged into their account and has their personal data already inputted | **NONE** | The patient can see all their records |

## Test Case Edit Patient Personal Data

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| **ID** | **UC** | **Name** | **Pre-condition** | **Test data** | **Expected result** |
| **TC-02** |  | Edit my personal data | User is on the log in page of the app | **First name:** Johnny  **Last name:**  Doe  **Birthdate:**  02-04-2000 | The patients' records have been updated with the new data input |
|  |  | Null entries provided | User is on the log in page of the app and input is null | **First name:** Johnny  **Last name:**  **Birthdate:**  02-04-2000 | The patient receives a null entry records message |

## Test Case Overview of Patient Historical Stress data

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| **ID** | **UC** | **Name** | **Pre-condition** | **Test data** | **Expected result** |
| **TC-02** |  | Have an overview of my historical stress data | Patient is logged in. Patient has existing stress data | **NONE** | Patients historical stress data is produced |

## Test Case View Patient Current Stress Data

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| **ID** | **UC** | **Name** | **Pre-condition** | **Test data** | **Expected result** |
| **TC-02** |  | View my current stress data point | Patient is logged in. Patient has on a registered wearable | **NONE** | Patient current stress data is produced |

## Test Case Comment on My Stress Data

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| **ID** | **UC** | **Name** | **Pre-condition** | **Test data** | **Expected result** |
| **TC-02** |  | Comment on my stress data point | A stress data point has been selected | "I was watching a horror movie" | Comment was added to the stress data point |
|  |  | Comment for stress data point is null | A stress data point has been selected, but no comment was inputted | **NONE** | The patient receives a null entry records message |

## Test Case View My Feedback

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| **ID** | **UC** | **Name** | **Pre-condition** | **Test data** | **Expected result** |
| **TC-02** |  | View my feedback on stress data points | User currently already has a stress data point message | **NONE** | Patients feedback is displayed |

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| **ID** | **UC** | **Name** | **Pre-condition** | **Test data** | **Expected result** |
| **TC-02** |  | Edit my feedback on stress data points | User currently already has a stress data point message | "I was watching a scary movie" | Patients feedback/comment is edited with the new data |

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| **ID** | **UC** | **Name** | **Pre-condition** | **Test data** | **Expected result** |
| **TC-02** |  | Delete my feedback on stress data points | User currently already has a stress data point message | **NONE** | Patient feedback point is deleted and no record of it exists |

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| **ID** | **UC** | **Name** | **Pre-condition** | **Test data** | **Expected result** |
| **TC-02** |  | Register my wearable device to my account |  |  |  |
|  |  | Register already saved wearable to the same account |  |  |  |

## Test Case Caregiver Provide Feedback

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| **ID** | **UC** | **Name** | **Pre-condition** | **Test data** | **Expected result** |
| **TC-02** | **UC-01** | Provide feedback on patients stress data points | Patient stress data is available for commenting | "Patient experienced a flash of light" | Caregiver feedback point has been added to the selected patient |
|  |  | Null feedback entry is provided | Patient stress data is available for commenting | **NONE** | Caregiver receives a null entry error message |

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| **ID** | **UC** | **Name** | **Pre-condition** | **Test data** | **Expected result** |
| **TC-02** |  | View the feedback provided on patients' stress data points | Patient has already inputted feedback points | **NONE** | Feedback for desired stress point is shown |

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| **ID** | **UC** | **Name** | **Pre-condition** | **Test data** | **Expected result** |
| **TC-02** |  | Edit the feedback provided on patients' stress data points | Patient has already inputted feedback points | Patient experienced a flash" | Caregiver feedback/comment on patient is edited with the new data |
|  |  | Null feedback entry is provided | NONE | **NONE** | Caregiver receives a null feedback entry error message |

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| **ID** | **UC** | **Name** | **Pre-condition** | **Test data** | **Expected result** |
| **TC-02** |  | Delete feedback provided on patients' stress data points | Feedback on a stress data point has been selected | **NONE** | Caregiver feedback on patient is deleted |

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| **ID** | **UC** | **Name** | **Pre-condition** | **Test data** | **Expected result** |
| **TC-02** |  | View my personal data | Caregiver is logged in | **NONE** | All personal information about caregiver personal data is displayed |

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| **ID** | **UC** | **Name** | **Pre-condition** | **Test data** | **Expected result** |
| **TC-02** |  | Edit personal data | Caregiver is logged in | **First name:** Care  **Last name:**  Giver  **Birthdate:**  02-04-1956 | New data entries are stored and the old removed |
|  |  | Null feedback entry is provided | Caregiver is logged in | **First name:** Care  **Last name:**  **Birthdate:**  02-04-2000 | Caregiver receives a null entry error message |

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| **ID** | **UC** | **Name** | **Pre-condition** | **Test data** | **Expected result** |
| **TC-02** |  | View the patient groups I am in (including the users in them) | Caregiver is logged in | **NONE** | A list of patient groups caregivers is currently in is returned |

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| **ID** | **UC** | **Name** | **Pre-condition** | **Test data** | **Expected result** |
| **TC-02** |  | View the historical stress data of my patients' | Caregiver is logged in | **NONE** | A list of stress data points for patients of the given period is returned |

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| **ID** | **UC** | **Name** | **Pre-condition** | **Test data** | **Expected result** |
| **TC-02** |  | View the current stress level of my patients | Caregiver is logged in and has selected a specific patient | **NONE** | Current stress point of patient is returned |

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| **ID** | **UC** | **Name** | **Pre-condition** | **Test data** | **Expected result** |
| **TC-02** |  | View caregiver info | Admin is logged and called to view all caregivers | **NONE** | A list of records containing all unarchived caregiver accounts is displayed |

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| **ID** | **UC** | **Name** | **Pre-condition** | **Test data** | **Expected result** |
| **TC-02** |  | View patient info | Admin is logged and called to view all patients | **NONE** | A list of records containing all unarchived patient accounts is displayed |

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| **ID** | **UC** | **Name** | **Pre-condition** | **Test data** | **Expected result** |
| **TC-02** |  | Edit caregivers info | Admin is logged and has selected a specific caregiver info | **First name:** Johnny  **Last name:**  Giver  **Birthdate:**  02-04-1956 | New data entries for caregivers are saved and old entries overwritten |
|  |  | Null entries provided | Admin is logged and has selected a specific caregiver info | **First name:** Johnny  **Last name:**  **Birthdate:**  02-04-1956 | Null entry message is returned |

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| **ID** | **UC** | **Name** | **Pre-condition** | **Test data** | **Expected result** |
| **TC-02** |  | Edit patients' info | Admin is logged and has selected a specific patient info | **First name:** Johnny  **Last name:**  Doey  **Birthdate:**  02-04-2000 | New data entries for patients are saved and old entries overwritten |
|  |  | Null entries provided | Admin is logged and has selected a specific patient info | **First name:** Johnny  **Last name:**  **Birthdate:**  02-04-2000 | Null entry message is returned |

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| **ID** | **UC** | **Name** | **Pre-condition** | **Test data** | **Expected result** |
| **TC-02** |  | Assign patients to patient groups | Admin is logged in and has selected a patient and patient group | **Patient group:** Ward2  **Patient:** Johnny Doey | Selected patients are added to the patient group and removed from the unassigned patient list  Return message: patient added patient group |

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| **ID** | **UC** | **Name** | **Pre-condition** | **Test data** | **Expected result** |
| **TC-02** |  | Assign caregivers to patient groups | Admin is logged in and has selected a caregiver and patient group | **Patient group:** Ward2  **Caregiver:** Johnny Giver | Selected caregivers are added to the patient group and made unavailable to assign in the patient group    Return message: caregiver added to patient group |

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| **ID** | **UC** | **Name** | **Pre-condition** | **Test data** | **Expected result** |
| **TC-02** |  | Un-assign patients from patient groups | Admin is logged in and has selected a patient group and patient | **Patient:** Johnny Doey | The patient is removed from the group and made available for assigning to a patient group  Return message:  Patient unassigned |

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| **ID** | **UC** | **Name** | **Pre-condition** | **Test data** | **Expected result** |
| **TC-02** |  | Un-assign caregivers from patient groups | Admin is logged in and has selected a patient group and caregiver | **Caregiver:** Johnny Giver | The caregiver is removed from the group and made available for assigning once more.  Return message:  Caregiver unassigned |

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| **ID** | **UC** | **Name** | **Pre-condition** | **Test data** | **Expected result** |
| **TC-02** |  | Remove patient groups | Admin is logged in and has selected a patient group | **Patient group:** Ward2 | Patient group is deleted and all patients and caregivers in the group made available for assigning to a new patient group |

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| **ID** | **UC** | **Name** | **Pre-condition** | **Test data** | **Expected result** |
| **TC-02** |  | View patient groups | Admin is logged in and has called the view patient group function | **NONE** | A list of patient groups added is returned |

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| **ID** | **UC** | **Name** | **Pre-condition** | **Test data** | **Expected result** |
| **TC-02** |  | Create patient groups | Admin is logged in and has called the view patient group function | **Patient group:** Ward2 | A new patient group is created  Return message:  Patient group added |
|  |  | Null entry for patient group |  | **NONE** | Null entry message is returned |

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| **ID** | **UC** | **Name** | **Pre-condition** | **Test data** | **Expected result** |
| **TC-02** |  | View which patient groups a caregiver is in | Admin is logged in and has selected a caregiver and called the view patient group function | **NONE** | A list of patient groups the selected caregiver is returned |