**Department of Veterans Affairs**

**Office of Information & Technology (OIT)**

**Benefits Claims Decision Support System**

Tests, Test Scripts, Test Data

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**May 2016**

**Department of Veterans Affairs**

Version 1.0

Revision History

| Date | Version | Description | Author |
| --- | --- | --- | --- |
| 04/28/16 | 1.0 | Initial Draft | Bhupinder Singh |
| 05/9/16 | 1.1 | BCDSS Test, Test Scripts and Test Data document. – Modified Scope and Background. | Bhupinder Singh |
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**Table of Contents**

1. Introduction 1

1.1. Purpose 1

1.2. Scope 1

**1.3 Background**…………………………………………………………………………

2. TEST Script/Test Case Scenarios 1

2.1. Test Case Scenario 001 1

2.2. Test Case Scenario 002 4

2.3. Test Case Scenario 003 6

2.4. Test Case Scenario 004 9

2.5. Test Case Scenario 005 11

2.6. Test Case Scenario 006 13

2.7. Test Case Scenario 007 15

2.8. Test Case Scenario 008 17

2.9. Test Case Scenario 009 19

2.10. Test Case Scenario 010 26

3. Test Data 29

4. Approval Signatures for Document 30

Introduction

* 1. Purpose

This document is the compilation of Tests, Test Scripts, Test Data for Increment 1 (Sprint 1) of BCDSS system The purpose of this document is to provide a single resource for testing activities of the testing team will be using to fulfill the test acceptance criteria of the requirements for Increment 1. If testing finds any issue while testing, same would be reported to development team for its remediation. This document is a deliverable for Tests executed to validate sprint 1 development

* 1. Scope

The scope of this document covers the Tests that have been created to address the requirements for Increment 1 (Sprint 1 and 2) of the BCDS project. The test scripts which were executed, the dataset which were uploaded in database to cover the various testing scenarios. The Contractor develops all software and tests through access to anonymized BCDSS and the FTL environments provided by VA. All code shall be developed using an Agile development model with short, frequent development cycles.

**1.3. Background**

PST shall design, develop, test and demonstrate an integrated data analytics and modeling system, called the Benefits Claims Decision Support System (BCDS). We will develop 2 predictive models (for Ear and Knee disability conditions) with parameters to support a repository and platform design. The development and design of these models are contingent on the VA’s key data based on historical claims for use with the BCDS platform and the VA provided guidance from results in the Veterans Administration Disability Rating Engineering Notebooks.

# **TEST Script/Test Case Scenarios**

## **VABCDS -188 Login Authentication**

*Table –* *BCDS login page Test Case*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| TC01: BCDS Login Authentication | | | | | |
| Test Case Objective:  To validate & verify the login functionality of the BCDS application to ensure only registered users are allowed to login | | | | | |
| Pre-Conditions:  The user has a valid Access Code/ password to access BCDS application with privileges to perform tasks. | | | | | |
| Actors/User Role:  Administrator, Modeler and Modeling Agent | | | | | |
| Requirement Tested | | | | | |
| Module or Screen: Benefit Claim Decision Support System Login page Tested by: Date Tested: | | | | | |
| Step  # | **Test Steps Description** | **Expected Results** | **Actual Results** | **Comments** | **Pass/**  **Fail** |
| 1 | Enter the BCDSS web address (URL) or Click the BCDSS link to launch the BCDSS initial login screen  Verify that the user is directed to the BCDSS initial Login page |  |  |  |  |
| 2 | Login into BCDSS |  |  |  |  |
| 3 | Verify that an error message will be returned if either the ID or the password cannot be authenticated. |  |  |  |  |
| 4 | Verify that the authentication process has verified the users Access Level. |  |  |  |  |
| 5 | Verify that the application is displayed a main BCDSS screen after authentication is complete. |  |  |  |  |
| 6 |  |  |  |  |  |
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| 11 |  |  |  |  |  |
| 12 |  |  |  |  |  |
| 13 |  |  |  |  |  |

## Selecting Single Patient File

*Table –* *Selecting Single Patient File Test Case*

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| --- | --- | --- | --- | --- | --- |
| TC-02: Authorization Define Roles – Administrator | | | | | |
| Test Case Objective:  To verify, the users are being able to search for a specific patient when they enter the patient’s last name and DOB or patient’s full SSN, and the application returns a message, if the patient file cannot be located.  To verify, the users are able to search for the specific patient when they enter the unit or location number where the patient resides.  To verify users can access BCDSS through the “Tools” option in CPRS for current open patient file.  To verify the BCDSS shall have a capability to search Patient using First name and last name’s initial & last 4 digits of social security number | | | | | |
| Pre-Conditions:  The user has a valid Access Code / Verify Code and privileges to access Benefits Claim Decision Support System (BCDSS) to perform tasks.  Patient’s complete profile data with BCDSS information exist in the system. | | | | | |
| Actors/User Role:  Rater, Modeling Agent & Administrator | | | | | |
| Requirements Tested #: | | | | | |
| Module or Screen: BCDSS Patient search options Tested by: Date Tested: | | | | | |
| Step# | **Test Steps Description** | **Expected Results** | **Actual Results** | **Comments** | **Pass/**  **Fail** |
| 1 |  |  |  |  |  |
| 2 |  |  |  |  |  |
| 3 |  |  |  |  |  |
| 4 |  |  |  |  |  |
| 5 |  |  |  |  |  |
| 6 |  |  |  |  |  |

## Selecting multiple patients

*Table –* *Selecting multiple patients Test Case*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| TC03: Authorization Define Roles – Modeler | | | | | |
| Test Case Objective:  To validate & verify the BCDSS application allows the facility to enter multiple patient names when necessary to access multiple patient claims and to be able to view all the patients within the location / unit.  To verify the user will be able to select multiple patients when the location number/unit list is available and return an intelligent error if there is an issue with any of the patients requested. | | | | | |
| Pre-Conditions:  The user holds a valid Access Code/ Verify Code and privileges to access and perform required tasks of the scenario  Patient’s complete profile data with BCDSS information exist in the system. | | | | | |
| Actors/User Role:  Government User / Service Provider / Physician / Physician Assistant / Clinician / Nurse Practitioner / RN Care Manager / Clinical Associate / Clerk | | | | | |
| Requirements Tested #:  UR3.1, UR3.2, UR3.3, UR3.4 | | | | | |
| Module or Screen: Multiple patient’s selection & Search Tested by: Date Tested: | | | | | |
| Step  # | **Test Steps Description** | **Expected Results** | **Actual Results** | **Comments** | **Pass/**  **Fail** |
| 1 |  |  |  |  |  |
| 2 |  |  |  |  |  |
| 3 |  |  |  |  |  |
| 4 |  |  |  |  |  |

## Display a Patient BCDSS (Mobile & Desktop View)

*Table –* *Display a Patient BCDSS Test Case*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| TC04: Authorization Define Roles – Modeling Agent | | | | | |
| Test Case Objective:  To verify & validate, the users are able to view all the fields for clams (mandatory and optional based on the defined template) and patient’s profile (location/unit, list of active medications, diet information, all upcoming Procedures/Tests, updated physician data) and to be able to use the mobile view display on various mobile devices | | | | | |
| Pre-Conditions:  The user holds a valid Access Code/ Verify Code and privileges to access and perform required tasks of the scenario  Patient’s complete profile data with BCDSS information exist in the system. | | | | | |
| Actors/User Role:  Government User / Service Provider / Physician / Physician Assistant / Clinician / Nurse Practitioner / RN Care Manager / Clinical Associate / Clerk | | | | | |
| Requirements Tested #:  5.1.11,5.2.1 | | | | | |
| Module or Screen: Display a Patient BCDSS information Tested by: Date Tested: | | | | | |
| Step  # | **Test Steps Description** | **Expected Results** | **Actual Results** | **Comments** | **Pass/**  **Fail** |
| 1 |  |  |  |  |  |
| 2 |  |  |  |  |  |
| 3 |  |  |  |  |  |
| 4 |  |  |  |  |  |
| 5 |  |  |  |  |  |
| 6 |  |  |  |  |  |
| 7 |  |  |  |  |  |
| 8 |  |  |  |  |  |
| 9 |  |  |  |  |  |
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| 11/ 12 |  |  |  |  |  |
| 13 |  |  |  |  |  |
| 14 |  |  |  |  |  |
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Table 1: Revision History of Test Case Scenario001

Table 2: Detailed Listing of Acceptance Criteria for Test Case Scenario001

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| TC05: Dashboard – Modeling Agent | | | | | |
| Test Case Objective:  To verify & validate, the users are able to view all of the fields (mandatory and optional based on the defined template) and patient’s profile (location/unit, list of active medication, diet information, all upcoming Procedures/Tests, updated physician data) and to be able to use the mobile view display on various mobile devices | | | | | |
| Pre-Conditions:  The user holds a valid Access Code/ Verify Code and privileges to access and perform required tasks of the scenario  Patient’s complete profile data with BCDSS information exist in the system. | | | | | |
| Actors/User Role:  Rater, | | | | | |
| Requirements Tested #: | | | | | |
| Module or Screen: Display a Patient BCDSS information Tested by: Date Tested: | | | | | |
| Step  # | **Test Steps Description** | **Expected Results** | **Actual Results** | **Comments** | **Pass/**  **Fail** |
| 1 |  |  |  |  |  |
| 2 |  |  |  |  |  |
| 3 |  |  |  |  |  |
| 4 |  |  |  |  |  |
| 5 |  |  |  |  |  |

# **Requirements Mapping**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Package | REQ # | Requirements | Source | Test Case# | Test Status / Comments |
|  |  |  | PWS | TC01 |  |
|  |  | SME | TC01 |  |
|  |  | SME | TC01 |  |
|  |  | SME | TC01 |  |
|  |  | SME | TC01 |  |
|  |  | SME | TC01 |  |
|  |  | SME | TC01 |  |
|  |  | SME | TC01 |  |
|  |  | SME | TC01 |  |
|  |  | SME | TC01 |  |
|  |  | SME | TC01 |  |
|  |  | SME-M | TC01 |  |
|  |  | SME | TC01 |  |
|  |  |  |  |  |  |

# **Test Data**

This section will have a set of data created for testing the prototype for the Benefits Claim Decision Support System (BCDSS) to verify and validate all requirements. Test data would contain a sample of every category of valid data as well as many invalid conditions as possible.

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| --- | --- | --- | --- | --- |
| BCDSS Test Data | | | | |
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**4 Approval Signatures**

This section is used to document the initial approval of Benefits Claim Decision Support System (BCDSS) Tests, test scripts and Test Data and subsequent updates and modifications of this document.

All members of the governing Management Team are required to sign:

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Signed: Date: