PUSS21420202

v. 0.1

Software Verification and Validation Specification

Group 2

Responsible: Test Group

Authors: Test Group

2021-02-01

Contents

1   Introduction

This document describes how (insert system name here) system should be verified.

2   Reference Documents

1. Projekthandledning

2. Software Requirements Specification: (insert system name here), v. 0.1, Doc. number: PUSP214201

3   Overview

During the project, three formal reviews are carried out.

1. Software Specification Review (SSR)

   a. SDP
   b. SRS
   c. SVVS

2. Preliminary Design Review (PDR)

   a. SVVI
   b. STLDD

3. Product Review (PR)

   a. SVVR
   b. SSD
   c. PFR

These formal reviews are carried out as described in Ref. 1. At least three days before a formal review an informal review will be carried out, without any customer representative involved. The informal reviews are scheduled so that updated material can be altered to be delivered to the formal review. In addition to the informal reviews listed above the SDDD should also be reviewed in an informal review.

4   Test Cases

4.1   Test Environments

All tests will be run in one or more of the following environments.

1. JUnit 5.

2. Webbrowser (Chrome, Firefox, Microsoft Edge).

3. Operating System (Windows).

4. Database system (MySQL).

5. IDE (Eclipse).

4.2   Test Types

These are the types of tests that will be carried out throughout the project

- **Unit test:** This is carried out by individual developers while they are coding and before the code is pushed to Github. This is done informally, and no documentation is needed.

- **Function test:** General tests for the whole system and are carried out by the test group.

- **System test:** General tests for the whole system and are carried out by the test group.

- **Regression test:** All relevant tests are redone if an update is made to the system.

- **Acceptance test:** These tests are performed by the customer and is a combination of the tests stated above and the customer's own tests.

5   Requirements Checked in Reviews

In reviews all requirements should be checked by the reviewers.

6   Appendices

- **A.** Function Test Specification

- **B.** System Test Specification

- **C.** Regression Test Specification

A   Function Test Specification

6.1   Login and Logout

- **FT1:** Can login and out of the system using username and password. [SRS req. 6.1.1, 6.1.2, 6.1.6]

- **FT2:** Gets a new password from the server by e-mail on account creation or if requested. [SRS req. 6.1.3, 6.1.4]

- **FT3:** Can change password from logged-in state. [SRS req. 6.1.5, 6.1.8]

- **FT4:** Relevant error message is displayed on failed login. [SRS req. 6.1.9]

6.2   Data

- **FT5:** Can only enter valid password when changing password. [SRS req.6.2.1]

6.3   User

- **FT6:** Can submit a time report. [SRS req. 6.3.1]

- **FT7:** Can see a summarized view of current user time reports. [SRS req. 6.3.3]

- **FT8:** Can edit a submitted report if it is not signed by Project leader. [SRS req. 6.3.5]

6.4   Project Leader

- **FT9:** Can see all users and their roles. [SRS req. 6.4.3]

- **FT10:** Can change roles on other users but not themself. [SRS req. 6.4.4]

- **FT11:** Can't change other project leaders' roles.

- **FT12:** Can sign reports. [SRS req. 6.4.5]

- **FT13:** Can see a summarized view of users time reports. [SRS req. 6.4.1]

6.5   Administrator

- **FT14:** Can add a new user. [SRS req. 6.5.3, 6.5.4]

- **FT15:** Can remove a user. [SRS req.6.5.3]

- **FT16:** Can change the roles of all users. [SRS req. 6.5.4].

- **FT17:** Can view all users as a list. [SRS req. 6.5.5]

6.6   System Requirements

- **FT18:** All error messages should follow the format. [

B System Test Specification

- **ST1:** Random access to different pages and URL:s

C Regression Test Specification

EDIT HERE

- **RT1:** FT1

- **RT2:** FT1

- **RT2:** FT1

- **RT2:** FT1

- **RT2:** FT1