REVISION HISTORY

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| --- | --- | --- | --- |
| **Date** | **Version** | **Description** | **Author** |
| 19/10/2016 | 1.0 | Whole document has been overviewed and updated by our group. Each person wrote one test at Part 3.1. Other parts have been discussed and completed together. | Mehmet Uluç Şahin  Mehmet Melih Arıcı  Arda Mutlu  Berkay Bayram  Eren Balatkan |
| 23/10/2016 | 1.1 | 1.2 Abbreviations updated.  2.1 Hardware Preperation updated. Added required browsers.  2.2 Software Preperation. Updated explanation. | Mehmet Uluç Şahin |
| 26/10/2016 | 1.2 | Table Contents page numbers added.  1.4 Conventions updated and table added.  3.1 RMS Tests updated new tests added. | Eren Balatkan  Mehmet Uluç Şahin  Berkay Bayram |

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# Introduction

## Document overview

This document is the software test plan of the RMS software development project. It contains the description of tests.

## Abbreviations

RMS: Room Management Software

REQ: Requirement

MS: Microsoft

## References

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| --- | --- | --- |
| # | Document Identifier | Document Title |
| 1 | 002 | Software Requirements Specifications |

## Conventions

Date: dd/mm/yyyy

Revision History Version: x.xx (0.01 etc.), incrementing by 0.01 each version.

Test ID: T-SRS-XXX

Each test case will be presented in a table format as shown below:

|  |  |  |
| --- | --- | --- |
| **Test ID** | <ID of the test> |  |
| Test description | <A brief description of the test> |  |
| Verified Requirement | <ID numbers of requirements that are to be verified with this test.> | Verification method: <I,A,D,T> |
| Initial conditions | <The state of software before test> |  |
| Tests inputs | <Input data from any test tool, input files name and location, if any > |  |
| Data collection actions | <Recording and post processing of output data, if any > |  |
| Tests outputs | <Output data files, if any> |  |
| Assumptions and constraints | If any, may be limited access to a tool, license … |  |
| Expected results and criteria | <list of expected results> | <special criteria to be met by the result, if any> |
| **Test procedure** |  |  |
| **Step number** | **Operator actions** | **Expected result and evaluation criteria** |
| 1 | <actions listed row by row> | <expectation after each action if any> |
| 2 | … | … |

Some rows may be omitted from some tests if not required.

# Tests preparations

This section contains tasks and recommendations before executing tests.

## Hardware preparation

A computer with any one of these operating systems are enough to use RMS:

Windows XP

Windows Vista

Windows 7

Windows 8

Windows 10

RMS requires one of the following browsers (or later versions):

Google Chrome (Version 54.0.2840)

Mozilla Firefox (Version 49.0.2)

Internet Explorer 11

RMS may or may not work on older versions of these operating systems.

## Software preparation

Any recent web browser specified in part 2.1 is enough to use RMS.

## Other test preparation

There is not any specific tasks to do before tests.

## Safety, security and privacy precautions

None.

# Tests descriptions

Tests in this document are sorted by their IDs.

## RMS Tests

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| --- | --- | --- |
| **Test ID** | **T-SRS-001** |  |
| Test description | Verifying the DB connection. Checking DB’s inputs and outputs with SQL queries. |  |
| Verified Requirement | SRS-RMS-020.0 |  |
| Initial conditions | The system running and waiting user to login the system. |  |
| Tests inputs | SELECT StudentName.RoomID,TotalTime  FROM Rooms INNER JOIN Students ON Rooms.RoomID=Students.StdID; | Demonstration (D) |
| Data collection actions | NA |  |
| Tests outputs | StudentName | RoomID| Total Time Arda Mutlu | Room 312 | 2 hours |  |
| Assumptions and constraints | NA |  |
| Expected results and criteria | Administrator checks booked/empty rooms | DB shall give the right information about rooms. |
| **Test procedure** |  |  |
| **Step number** | **Operator actions** | **Expected result and evaluation criteria** |
| 1 | Selecting the student and booking information from rooms table | Student Name, Room Id and Total Time selected |
| 2 | Applying inner join from students table | Join two tables into one table |
| 3 | Printing the result of SQL query. | Compare the SQL result and original input. |

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| **Test ID** | **T-SRS-002** |  |
| Test description | Ensuring system can give intended info else raise an error |  |
| Verified Requirement | SRS-RMS-030.0 | Demonstration (D) |
| Initial conditions | The system running and waiting to be asked info about the room(s) wanted |  |
| Tests inputs | Folder: Test/inputs  File name: RoomInfo.txt |  |
| Data collection actions | NA |  |
| Tests outputs | Folder: Test/outputs  Location: project folder |  |
| Assumptions and constraints | NA |  |
| Expected results and criteria | To find related information about given room number or else raising an error message | Software shall give the right information about rooms |
| **Test procedure** |  |  |
| **Step number** | **Operator actions** | **Expected result and evaluation criteria** |
| 1 | Selecting the room | Room selected |
| 2 | Click on button | Requested information to be shown on the screen |

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| **Test ID** | **T-SRS-003** |  |
| Test description | Room reservation test. |  |
| Verified Requirement | SRS-SQ-RMS-010.0  SRS-SQ-RMS-040.0 | Demonstration (D) |
| Initial conditions | Empty Room. | Room to be reserved is currently empty. |
| Tests inputs | username: S004031  password: 1234567 | NA |
| Data collection actions | NA | NA |
| Tests outputs | The reserved room must be tagged as “Reserved” and should be unavailable to other users. | “Reserved Room” |
| Assumptions and constraints | NA | NA |
| Expected results and criteria | “Reservation is successful” or “Reservation has failed”. | If the selected room is currently empty, then reservation should be successful. Otherwise it should fail. |
| **Test procedure** |  |  |
| **Step number** | **Operator actions** | **Expected result and evaluation criteria** |
| 1 | Open RMS page. | RMS page is opened. |
| 2 | Click “Login” button on the main screen. | An error message: Please enter username and password. |
| 3 | Enter username and incorrect password. | An error message: Incorrect password. Please enter correct password. |
| 4 | Enter username with correct password | Successfully login the RMS. |
| 5 | Click “Rooms” tab. | Rooms tab is opened. |
| 6 | Click an empty room. | Clicked empty room is selected. |
| 7 | Click “Reserve This Room”. | Room is now reserved. |

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| **Test ID** | **T-SRS-004** |  |
| Test description | Reservation cancelling |  |
| Verified Requirement | SRS-RMS-050.0 | Demonstration (D) |
| Initial conditions | A room must be reserved by an user |  |
| Tests inputs | username: admin  password: supersecretadminpassword |  |
| Data collection actions | NA |  |
| Tests outputs | NA |  |
| Assumptions and constraints | NA |  |
| Expected results and criteria | User should be able to cancel reservations on reserved rooms , user should not have ability to cancel reservations if the room is not reserved by user or not reserved at all. |  |
| **Test procedure** |  |  |
| **Step number** | **Operator actions** | **Expected result and evaluation criteria** |
| 1 | Click “Login” button on the main screen. | Login successful |
| 2 | Reserve the room with number 001  between 12:00 and 13:00 | Reservation successful |
| 3 | Cancel the reservation on the room 001 between 12:00 and 13:00 | Reservation succesfully cancelled , user should no longer be able to have ability to cancel reservation after the room is no longer reserved |

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| **Test ID** | **T-SRS-005** |  |
| Test description | Empty Room Time Requirement Test |  |
| Verified Requirement | SRS-UR-RMS-010 | Test (T) |
| Initial conditions | User is logged in to the system. |  |
| Tests inputs | NA |  |
| Data collection actions | Time shall be measured with JUnit. |  |
| Tests outputs | Time elapsed will be outputted. |  |
| Assumptions and constraints | NA |  |
| Expected results and criteria | Empty room list should be available to users in less than 1.0 second. |  |
| **Test procedure** |  |  |
| **Step number** | **Operator actions** | **Expected result and evaluation criteria** |
| 1 | Click show empty rooms button. | Empty room list will come. |

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| **Test ID** | **T-SRS-006** |  |
| Test description | RMS should occupy less than 50 mb hard drive space. |  |
| Verified Requirement | SRS-UR-RMS-030 | Test (T) |
| Initial conditions | NA |  |
| Tests inputs | NA |  |
| Data collection actions | The space RMS occupies |  |
| Tests outputs | Time elapsed will be outputted. |  |
| Assumptions and constraints | RMS will occupy less than 50 mb had drive space. |  |
| Expected results and criteria | NA |  |
| **Test procedure** |  |  |
| **Step number** | **Operator actions** | **Expected result and evaluation criteria** |
| 1 | Open the folder which RMS is installed on Windows Explorer. | Directory which RMS is installed is opened. |
| 2 | Right click on empty space, then click properties. | Amount of disk space RMS occupied will be displayed. |

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| **Test ID** | **T-SRS-007** |  |
| Test description | Operation system compatability test. |  |
| Verified Requirement | SRS-UR-RMS-020 | Demonstartion(D) |
| Initial conditions | Operation system is running. |  |
| Tests inputs | NA |  |
| Data collection actions | NA. |  |
| Tests outputs | NA |  |
| Assumptions and constraints | NA |  |
| Expected results and criteria | RMS will pass all the tests on currently running operation system. |  |
| **Test procedure** |  |  |
| **Step number** | **Operator actions** | **Expected result and evaluation criteria** |
| 1 | Open the RMS software. | RMS software is running. |