**Software Engineering Group Project**

**Test Specification**

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**1. Introduction**

**1.1 Purpose of this Document**

The purpose of this document is to list test that will need to be performed on the web interface and the desktop client throughout development. This document will help the group to spot what isn’t working and give them the chance to focus on making it work.

**1.2 Scope**

This document specifies test that are to be carried out during the overall project development. The test have been made and taken on from the Tasker Team Tasking System Requirement Specification [1].

**1.3 Objectives**

Objectives of this document:

* Outline test to be carried out on TaskerSRV
* Outline test to be carried out on TaskerMAN
* Outline test to be carried out on TaskerCLI

**2. TaskerSRV – Database Server**

**Reference: SRV-00**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Test Reference** | **Required Test** | **Test Content** | **Input** | **Output** | **Pass Criteria** |
| SRV-01 | FR1-1.1 | Check database stores team member forename | Enter team member forename e.g Samuel | Forename should be stored in the database |  |
| SRV-02 | FR1-1.2 | Check database stores team member surname | Enter surname of team member e.g Hyde | Surname should be stored in the database |  |
| SRV-03 | FR1-2.1 | Check database stores team member e-mail address | Enter e-mail address for team member e.g [sah54@aber.ac.uk](mailto:sah54@aber.ac.uk) | E-mail address should be stored in the database |  |
| SRV-04 | FR1-2.2 | Add validation rule for valid e-mail addresses | Add validation rule to the database e-mail attribute i.e. ((Like "\*?@?\*.?\*") – Validation requires ‘@’ when inputting e-mail address | Error is thrown when entering invalid e-mail address against validation constraint |  |
| SRV-05 | FR2-1.1 | Check if database allows the addition of a title to a specified task | Add title to a task within the database. E.g. Take notes during lecture | Title is added to task without an error being thrown |  |
| SRV-06 | FR2-2.1 | The allocation of a team member to a task | Team member is allocated the new task that is added to the database (Possible drop down menu if manually adding) | A team member is allocated a task from within the database |  |
| SRV-07 | FR2-3.1 | Add a start date to specific task | Add start date to task when inputting new task | Start date is added to task and is either short or long format (Date format to be decided) |  |
| SRV-08 | FR2-4.1 | Add an expected date for completion of the set task | Possible end date to be added to the task when added to the database | Expected end date of the task to be added in either short or long format (Date format to be decided) |  |
| SRV-09 | FR2-5.1 | Task elements showing at least one team member per task | Tasks in the relation are shown and at least one team member has been allocated to the task | Task elements shown, including title, description, etc and steps taken within the task, and at least one team member per task |  |
| SRV-10 | FR2-6.1 | Task status to be shown to the user of the database | When tasks are listed, task status is shown as allocated, abandoned or completed | Task has status is shown as allocated, abandoned or completed |  |

**3. TaskerMAN – Web Interface**

**Reference: MAN-00**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Test Reference** | **Required Test** | **Test Content** | **Input** | **Output** | **Pass Criteria** |
| MAN-01 | FR3 | Addition and maintenance of team member data | From the website, modify the team member data stored in the database from the website | Team member data is modified and database updates accordingly |  |
| MAN-02 | FR4 | Addition and allocation of task data | From the website, create, allocate and provision any and all task data to a registered team member | Allocation of tasks to registered team members puts |  |
| MAN-03 | FR5 | Reallocation of a task | From the website, reallocate existing task to a different team member | Task(s) can be reallocated to different team member(s) if needed |  |
| MAN-04 | FR6 | Abandonment of a task | From the website, mark any task as abandoned | Task(s) can be abandoned if task(s) is unable to be completed |  |
| MAN-05 | FR6.1 | Mark task as Completed | From the website, mark any task as completed | Task(s) can be marked as completed, once they are completed |  |
| MAN-06 | FR6.1 | Delete tasks | From the website, be able to delete task | Task(s) can be deleted from the web interface |  |
| MAN-07 | FR7 | View tasks | From the website, view list of task the the allocated team member(s). This list has a filter option to order the list by status and/or team member allocation | Tasks are listed in order of expected completion date and is able to be filtered into status and/or team member allocation |  |
| MAN-08 | NEW-01 | Listing | Team member appear in alphabetical order via Surname | Drop down menu displays team members via surname |  |
| MAN-09 | NEW-02 | Task Title | Tasks should not be able to be submitted without a title | Error of some kind is thrown telling user task title required |  |
| MAN-10 | NEW-03 | Past Due Date | Tasks cannot be submitted with a due date in the past | Error of some kind is thrown if past date is used as due date |  |
| MAN-11 | NEW-04 | Existing User | Existing users cannot be added to the system | Error is thrown is existing user is ‘attempted’ to be added again |  |
| MAN-12 | NEW-05 | Task Allocation | When assign a task to more than one team member, already selected member(s) is removed from the extra drop down menu | Selected team members are removed out in extra menus |  |
| MAN-13 | NEW-06 | Test that passwords that are too long are rejected. | Insert password with 13 characters.  “Password1234!” | Password is rejected, error message is thrown. |  |
| MAN-14 | NEW-07 | Test that passwords that are too short are rejected. | Insert password with 5 characters.  “Pass!” | Password is rejected, error message is thrown. |  |
| MAN-15 | NEW-08 | Test that passwords without special characters are rejected. | Insert password without special character.  “Password” | Password is rejected, error message is thrown. |  |
| MAN-16 | NEW-09 | Test valid password is accepted. | Insert password within criteria.  “Password1!” | Password is accepted. |  |
| MAN-17 | NEW-10 | Test password is present. | Insert password. “” | Password is rejected, error message is thrown. |  |
| MAN-18 | NEW-11 | Test rejected if not present. | Insert email. “” | Email is rejected, error message is thrown. |  |
| MAN-19 | NEW-12 | Test that invalid emails are rejected. | Insert email. “NotAnEmail” | Email is rejected, error message is thrown. |  |
| MAN-20 | NEW-13 | Test email is accepted if valid. | Insert email. “sis23@aber.ac.uk” | Email is accepted. |  |
| MAN-21 | NEW-14 | Test name is rejected if not present. | Insert name. “” | Name is rejected and error message is thrown. |  |
| MAN-22 | NEW-15 | Test name is rejected if over 50 characters. | Insert name “Hubert Blaine Wolfe­schlegel­stein­hausen­berger­dorff” | Name is rejected and error message is thrown. |  |
| MAN-23 | NEW-16 | Test name is accepted if valid. | Insert name “John Smith”. | Name is accepted. |  |
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**4. Tasker CLI­ – Desktop Application**

**Reference: CLI-00**

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| --- | --- | --- | --- | --- | --- |
| **Test Reference** | **Required Test** | **Test Content** | **Input** | **Output** | **Pass Criteria** |
| CLI-01 | FR8-1 | User Identification | On application start up, user must identify themselves using the e-mail address provided in **TaskerSRV** | E-mail prompt is shown and user needs to verify who is using the application |  |
| CLI-02 | FR8-2 | Local storage of tasks | Copy of the task for the specified user that has logged into the application | Allocated user tasks are stored locally in the user home directory |  |
| CLI-03 | FR9 | Task Synchronisation | Tasks stored locally and tasks with the allocated status for the user | Local files are stored in the users home directory and locally stored files take priority |  |
| CLI-04 | FR10 | Local editing | When identified on the application, the user is able to select a task from the current list and view the details, edit task steps in comments and change the task status to completed | User is able to select a task from the current list and view the details, edit task steps in comments and change the task status to completed |  |
| CLI-05 | FR11 | Synchronisation timing | At application start-up, FR9 must take place before and after FR10 if network access is available. This need to take place approximately every 5 minutes if no editing takes place. If no network is available, task files are stored locally until network is available for FR9 to take place | FR9 takes place at application start-up and FR10 if network access is available and takes place approximately every 5 minutes if no editing takes place. If network is not available, files are stored locally until network becomes available for FR9 |  |

**References**

[1] Software Engineering Group Project. Requirement Specification. N.W.Hardy SE.QA.RS. 1.1. Release

**Document History**

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| --- | --- | --- | --- | --- |
| **Version** | **CCF No.** | **Date** | **Changes Made** | **Changed By** |
| 1.0 | N/A | 2015-11-04 | First word draft of the test specification for group project | sah54 |
| 1.1 | N/A | 2015-11-13 | Updated documentation to agree with SE.QA.03 documentation standards | sah54 |
| 2.0 | N/A | 2015-12—02 | Updated TaskerMAN project tests | sah54 |
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