**Dream Team**

**Dream Team Calendar**

**Test Plan**

***Revision History***

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Authors** | **Description of Change** | **Sections** | **Rev** | **Date** |
| Henry Yang, Michael Perez, Eric Guzman | Initial Document | All | O | 4/10/18 |
| Eric Guzman, Michael Perez, Henry Yang | Addition of several test definitions, updated formatting | 2.2 | 1 | 4/12/18 |
| Michael Perez | Added all of the other tests, finalized formatting | All | 2 | 4/15/18 |
| Michael Perez | Accommodated for changed written requirements | All | 3 | 4/21/18 |

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# Team Description

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# Test Description

The description of the test includes the testing platform, testing definitions, and verification cross reference matrix.

## Test Platform / Hardware / Environment

For our test platform, we are using Linux/Ubuntu as our main operating system. The software will run on Windows, though it will not be optimized. The code will be compiled within the Qt IDE.

## Test Definition

### Test 1: Display User Interface Test

Requirements Tested: REQ-0002, REQ-0003, REQ-0004

Description: This test demonstrates the process of correctly displaying the user interface when the application starts up.

### Test 2: Create Task Test

Requirements Tested: REQ-0001

Description: The create Task test demonstrates the process of creating a Task by entering the Name, Description, Due Date, and Estimated Time to Completion values. This test also demonstrates that Description is an optional field that can be omitted.

### Test 3: Modify Unassigned Tasks Test

Requirements Tested: REQ-0019, REQ-0020, REQ-0021, REQ-0022,

Description: This test demonstrates the ability to modify an Unassigned Task’s Name, Description, Due Date, and Estimated Time to Completion.

### Test 4: Assign/Unassign Task to Calendar Test

Requirements Tested: REQ-0015, REQ-0016, REQ-0017, REQ-0018

Description: This test demonstrates the ability to assign a Task from the Unassigned Tasks list to the Calendar, as well as the ability to then unassign that Task. The test also takes error handling into account.

### Test 5: Delete Assigned/Unassigned Task Test

Requirements Tested: REQ-0023, REQ-0024

Description: This test demonstrates the ability to delete an Assigned Task, as well as an Unassigned Task.

### Test 6: Create/Modify Free Time Block Test

Requirements Tested: REQ-0005, REQ-0006, REQ-0007, REQ-0008, REQ-0009, REQ-0010

Description: This test demonstrates the ability to create a Free Time Block, as well as the ability to modify the Start and End Times of that Free Time Block. This test also takes into account special scenarios, such as when a created Free Time Block encapsulates another Free Time Block, or acts as an extension of an existing Free Time Block. Lastly, this test also demonstrates the ability to delete the created Free Time Block.

### Test 7: Free Time Block Error Checking Test

Requirements Tested: REQ-0011, REQ-0012, REQ-0013, REQ-0014

Description: This test demonstrates the system’s ability to catch and prevent invalid Start and End Times entered by the user.

### Test 8: Remind and Alert User Test

Requirements Tested: REQ-0025, REQ-0026, REQ-0027, REQ-0028

Description: This test demonstrates the system’s ability to remind the user of an upcoming Due Date. It also demonstrates what happens when the Due Date for a given Task is reached.

## Verification Cross Reference Matrix

|  |  |
| --- | --- |
| **Requirement Identifier** | **Where Tested** |
| REQ-0001 | Test 2 |
| REQ-0002 | Test 1 |
| REQ-0003 | Test 1 |
| REQ-0004 | Test 1 |
| REQ-0005 | Test 6 |
| REQ-0006 | Test 6 |
| REQ-0007 | Test 6 |
| REQ-0008 | Test 6 |
| REQ-0009 | Test 6 |
| REQ-0010 | Test 6 |
| REQ-0011 | Test 7 |
| REQ-0012 | Test 7 |
| REQ-0013 | Test 7 |
| REQ-0014 | Test 7 |
| REQ-0015 | Test 4 |
| REQ-0016 | Test 4 |
| REQ-0017 | Test 4 |
| REQ-0018 | Test 4 |
| REQ-0019 | Test 3 |
| REQ-0020 | Test 3 |
| REQ-0021 | Test 3 |
| REQ-0022 | Test 3 |
| REQ-0023 | Test 5 |
| REQ-0024 | Test 5 |
| REQ-0025 | Test 8 |
| REQ-0026 | Test 8 |
| REQ-0027 | Test 8 |
| REQ-0028 | Test 8 |