**Dream Team**

**Dream Team Calendar**

**Test Procedure**

***Revision History***

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Authors** | **Description of Change** | **Sections** | **Rev** | **Date** |
| Henry Yang, Michael Perez | Initial Document |  | 0 | 4/17/18 |
| Henry Yang | Created test procedures 1-3 |  | 1 | 4/18/18 |
| Michael Perez, Eric Guzman,  Jesus Rodriguez | Created test procedures 4-8 |  | 2 | 4/21/18 |

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# Team Description

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# Introduction

The Smart Calendar allows a user to plan their schedule with a graphical interface.

This application will:

* Allow the user to enter their free time on a weekly basis
* Allow the user to schedule Tasks to complete during their free time
* Sort the user’s Tasks based on an algorithm of their choice
* Remind the user of their upcoming Tasks’ deadlines

## Identification

|  |  |
| --- | --- |
| **Requirement Document Tested:** |  |
| **Requirement Document Revision:** |  |
| **Revision Release Date:** |  |

# Test Procedures

## Display User Interface Test

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

Preconditions: None

|  |  |  |  |
| --- | --- | --- | --- |
| **Step Number** | **Action** | **System Response** | **Requirement Tested**  **(if applicable)** |
| 1 | Start up application | Application window opens up.  The list of Unassigned Tasks is displayed on the right side of the window.  The list of Assigned Tasks is displayed to the left of the Unassigned Tasks.  The Calendar is displayed on the left side of the screen. | REQ-0002  REQ-0003  REQ-0004 |

## Create Task Test

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.

Precondition: None

|  |  |  |  |
| --- | --- | --- | --- |
| **Step Number** | **Action** | **System Response** | **Requirement Tested**  **(if applicable)** |
| 1 | Press “Add Task” button | “Add Task” Window is opened where Name, Description, Due Date, and Estimated Time to Completion fields are displayed. |  |
| 2 | Fill in all fields, and then hit the “Add” button | The Task is added to the Unassigned Tasks list. | REQ-0001 |

## Modify Unassigned Tasks Test

Description: This test demonstrates the ability to view the list of Unassigned Tasks, as well as the ability to modify the Task’s Name, Description, Due Date, and Estimated Time to Completion. This test also shows that Unassigned Tasks can be deleted.

Preconditions:

1. There is a correctly defined Task in the Unassigned Tasks list with the following fields:
   1. Name: Test
   2. Description: This is a sample description
   3. Due Date: Wednesday 7:00pm
   4. Estimated Time to Completion: 2 hours

|  |  |  |  |
| --- | --- | --- | --- |
| **Step Number** | **Action** | **System Response** | **Requirement Tested**  **(if applicable)** |
| 1 | Click on the Name field of the specified Unassigned Task, change it to “Updated Test”, and hit enter. | The Name field of the Unassigned Task will be updated to ”Updated Test”. | REQ-0019 |
| 2 | Click on the Description field of the specified Unassigned Task, change it to “This is an updated description”, and hit enter. | The Description field of the Unassigned Task will be updated to ”This is an updated description”. | REQ-0020 |
| 3 | Click on the Due Date field of the specified Unassigned Task, change it to “Wednesday 7:00pm”, and hit enter. | The Due Date field of the Unassigned Task will be updated to “Wednesday 7:00pm”. | REQ-0021 |
| 4 | Click on the Estimated Time to Completion field of the specified Unassigned Task, change it to 1 hour, and hit enter. | The Estimated Time to Completion field of the Unassigned Task will be updated to 1 hour. | REQ-0022 |

## Assign/Unassign Task to Calendar Test

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.

Preconditions:

1. There is a correctly defined Task in the Unassigned Tasks list with the following fields:
   1. Name: (Empty)
   2. Description: (Empty)
   3. Due Date: Tuesday 8:00pm
   4. Estimated Time to Completion: 8 hours

2) A Free Time Block exists from 2:00pm to 8:00pm on Tuesday.

3) The system time is Tuesday, 2:00pm.

|  |  |  |  |
| --- | --- | --- | --- |
| **Step Number** | **Action** | **System Response** | **Requirement Tested**  **(if applicable)** |
| 1 | Select the Unassigned Task from the list and press the “Assign” button. | The system will alert the user that the mandatory Name field is missing an entry, and request that they go add one. | REQ-0016 |
| 2 | Click on the Unassigned Task’s Name field and enter “Study for Finals”. | The Unassigned Task’s Name is updated to “Study for Finals”. |  |
| 3 | Select the Unassigned Task from the list and press the “Assign” button. | The system alerts the user that there is not enough time within the available Free Time Blocks up until the Due Date to accommodate the Task’s Estimated Time to Completion length. The user is requested to either shorten the Task’s Estimated Time to Completion, or extend the Task’s Due Date. | REQ-0017 |
| 4 | Click on the Unassigned Task’s Estimated Time to Completion field and enter 4 hours. | The Unassigned Task’s Estimated Time to Completion is updated to 4 hours. |  |
| 5 | Select the Unassigned Task from the list and press the “Assign” button. | The Unassigned Task is assigned to the Calendar. | REQ-0015 |
| 6 | Select the Assigned Task on the Calendar and press the “Unassign” button. | The Assigned Task is unassigned and moved to the Unassigned Tasks list. | REQ-0018 |

## Delete Assigned/Unassigned Task Test

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

Preconditions:

1. There is a correctly defined Task in the Unassigned Tasks list with the following fields:
   1. Name: Do Taxes
   2. Description: :(
   3. Due Date: Wednesday 10:00pm
   4. Estimated Time to Completion: 8 hours
2. There is an Assigned Task with the following fields:
   1. Name: Work on Personal Project
   2. Description: Add in the UI and fix a few bugs
   3. Due Date: Tuesday 8:00pm
   4. Estimated Time to Completion: 2 hours

3) The system time is Tuesday, 2:00pm.

|  |  |  |  |
| --- | --- | --- | --- |
| **Step Number** | **Action** | **System Response** | **Requirement Tested**  **(if applicable)** |
| 1 | Select the Task in the Assigned Tasks list, and press the “Delete” button. | The Task is removed from the Assigned Tasks list.  The Free Time that the Task was occupying is then freed. | REQ-0023 |
| 2 | Select the Task in the Unassigned Tasks list, and press the “Delete” button. | The Task is removed from the Unassigned Tasks list. | REQ-0024 |

## 3.6 **Create/Modify Free Time Block Test**

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.

Preconditions:

1. A Free Time Block exists on Tuesday with a Start Time of 7:00pm and an End Time of 9:00pm.
2. A Free Time Block exists on Tuesday with a Start Time of 1:00pm and an End Time of 3:00pm.

|  |  |  |  |
| --- | --- | --- | --- |
| **Step Number** | **Action** | **System Response** | **Requirement Tested**  **(if applicable)** |
| 1 | Select the “Add Free Time Block” button. | The system prompts the user to enter a Start Time and End Time for a new Free Time Block. | REQ-0006 |
| 2 | Enter 4:00pm for the Start Time and 6:00pm for the End Time, and hit enter. | The Free Time Block is added to the Calendar. | REQ-0005 |
| 3 | Select the newly added Free Time Block on the Calendar. | A window pops up, containing fields for the Free Time Block’s Start Time and End Time, as well as a “Delete” button. |  |
| 4 | Change the End Time to 8:00pm and hit enter. | The Free Time Block’s End Time on the Calendar is extended to 8:00pm, which intersects the 7:00pm to 9:00pm Free Time Block.  The 7:00pm to 9:00pm Free Time Block is deleted, and the Free Time Block that was just modified extends its End Time to 9:00pm. | REQ-0008  REQ-0010 |
| 5 | Change the Start Time to 12:00pm and hit enter. | The Free Time Block’s Start Time on the Calendar is pulled back to 12:00pm.  The 1:00pm to 3:00pm Free Time Block is encapsulated by the Free Time Block that was just modified, so it gets deleted. | REQ-0009 |
| 6 | Select the “Delete” button. | The Free Time Block is deleted, and the window is closed. | REQ-0007 |

## 3.7 **Free Time Block Error Checking Test**

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

Preconditions:

1. An Assigned Task exists on the Calendar containing at least one block from 3:00pm to 5:00pm.

|  |  |  |  |
| --- | --- | --- | --- |
| **Step Number** | **Action** | **System Response** | **Requirement Tested**  **(if applicable)** |
| 1 | Select the “Add Free Time Block” button. | The system prompts the user to enter a Start Time and End Time for a new Free Time Block. |  |
| 2 | Enter 8:00pm for the Start Time and 6:00pm for the End Time, and hit enter. | The system displays an error message stating that the Start Time cannot be later than the End Time, and prompts the user to try again. | REQ-0013 |
| 3 | Enter 8:00pm for the Start Time and 6:00pm for the End Time, and hit enter. | The system displays an error message stating that the Start Time cannot be the same as the End Time, and prompts the user to try again. | REQ-0014 |
| 4 | Enter 2:00pm for the Start Time and 4:00pm for the End Time, and hit enter. | The system displays an error message stating that the End Time cannot exist in the middle of an Assigned Task block, and prompts the user to try again. | REQ-0011 |
| 5 | Enter 2:00pm for the Start Time and 6:00pm for the End Time, and hit enter. | The system displays an error message stating that the Free Time Block cannot encapsulate an Assigned Task block, and prompts the user to try again. | REQ-0012 |

## 3.8 **Remind and Alert User Test**

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.

Preconditions:

1. The system time is Tuesday, 3:00pm.
2. There is a correctly defined Task in the Unassigned Tasks list with the following fields:
   1. Name: Alert Test
   2. Description: This Task tests the alert system
   3. Due Date: Tuesday 4:00pm
   4. Estimated Time to Completion: 1 hour

|  |  |  |  |
| --- | --- | --- | --- |
| **Step Number** | **Action** | **System Response** | **Requirement Tested**  **(if applicable)** |
| 1 | Select the Unassigned Task from the list and press the “Assign” button. | The Unassigned Task is assigned to the Calendar.  Because the Due Date is less than an hour away, the System alerts the user that the Due Date is less than an hour away. | REQ-0025 |
| 2 | Set the system time ahead to 4:00pm. | A window pops up asking if the user is done or close to done, with a “Yes” button and a “No” button. | REQ-0026 |
| 3 | Select the “No” button. | The system tells the user that the Task has been placed in the Unassigned List, and is requested to modify its Due Date and Estimated Time to Completion values before reassigning it to the Calendar. | REQ-0028 |
| 4 | Click on the Due Date field of the Unassigned Task, change it to “Tuesday 6:00pm”, and hit enter. | The Due Date field of the Unassigned Task will be updated to “Tuesday 6:00pm”. |  |
| 5 | Click on the Estimated Time to Completion field of the Unassigned Task, change it to 1 hour, and hit enter. | The Estimated Time to Completion field of the Unassigned Task will be updated to 1 hour. |  |
| 6 | Select the Unassigned Task from the list and press the “Assign” button. | The Unassigned Task is assigned to the Calendar. |  |
| 7 | Set the system time ahead to 6:00pm. | The system alerts the user that the Due Date is less than an hour away.  A window pops up asking if the user is done or close to done, with a “Yes” button and a “No” button. |  |
| 8 | Select the “Yes” button. | The window closes, and the Task is deleted. | REQ-0027 |

# 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 |