**Dream Team**

**Dream Team Calendar**

**Written Requirements**

***Revision History***

|  |  |  |  |  |
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**Table of Contents**

[**1 Team Description**](#_gjdgxs) **4**

[**2 Terminology**](#_30j0zll) **5**

[**3**](#_1fob9te) **Smart Calendar 6**

[**3.1 Overview**](#_3znysh7) **6**

**3.2 Calendar Requirements 6**

**3.2.1 Display User Interface Requirement 6**

**3.3 Block Requirements 6**

**3.3.1 Set Unavailable Blocks Requirement 6**

**3.3.2 Set Free Time Blocks Requirement 6**

**3.3.3 Invalid Start and End Times Requirement 7**

**3.4 Task Requirements 7**

**3.4.1 Create Task Requirement 7**

**3.4.2 Modify Unassigned Task Fields Requirement 7**

**3.4.3 Assign Task to Calendar Requirement 7**

**3.4.4 Invalid Assign Request Requirement 7**

**3.4.5 Unassign Currently Assigned Task Requirement 8**

**3.4.5 Delete Assigned Task Requirement 8**

**3.4.6 Delete Unassigned Task Requirement 8**

# Team Description

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# Terminology

The following table defined terms used within this document.

|  |  |
| --- | --- |
| **Term** | **Definition** |
| User | Person using the application. |
| Block | Segment of time represented on the Calendar. Blocks can either be “Free Time” Blocks, or “Unavailable” Blocks. |
| Free Time Block | A Block of time that Tasks can be scheduled to. |
| Unavailable Block | A Block of time that Tasks cannot be scheduled to. |
| Task | A voluntary activity the user must complete. They can either be “Unassigned” or “Assigned”. |
| Unassigned Task | A Task that is not currently scheduled to the Calendar. |
| Assigned Task | A Task that is currently scheduled to the Calendar. |

# Smart Calendar

## Overview

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

**3.2 Calendar Requirements**

**3.2.1 Display User Interface Requirement**

* The system **shall** display the list of Unassigned Tasks on the right side of the application. **REQ-0001**
* The system **shall** display the list of Assigned Tasks to the left of the Unassigned Tasks. **REQ-0002**
* The system **shall** display the Calendar itself on the left side of the screen. **REQ-0003**
* The Calendar **shall** display all Blocks on the Calendar in hour long segments. **REQ-0004**
* The system **shall** display the current week on top of the Calendar. **REQ-0005**

**3.3 Block Requirements**

**3.3.1 Set Unavailable Blocks Requirement**

The system **shall** allow the user to set a set of Blocks as Unavailable Blocks. **REQ-0006**

The system **shall** display a unique window for setting Blocks as Unavailable Blocks. **REQ-0007**

The system **shall** prompt the user to select a Start Time and End Time to designate which Blocks to set as Unavailable Blocks on a specific day. **REQ-0008**

The system **shall** display all Unavailable Blocks on the Calendar as Blocks with X’s in them. **REQ-0009**

The system **shall** prevent the user from designating a set of Blocks as Unavailable if the set contains an Assigned Task. **REQ-0010**

**3.3.2 Set Free Time Blocks Requirement**

The system **shall** allow the user to set a set of Blocks as Free Time Blocks. **REQ-0011**

The system **shall** display a unique window for setting Blocks as Free Time Blocks. **REQ-0012**

The system **shall** prompt the user to select a Start Time and End Time to designate which Blocks to set as Free Time Blocks on a specific day. **REQ-0013**

**3.3.3 Invalid Start and End Times Requirement**

The system **shall** prevent the user from selecting a Start Time that is after the End Time. **REQ-0014**

**3.4 Task Requirements**

**3.4.1 Create Task Requirement**

The system **shall** allow creation of new Tasks. **REQ-0015**

The system **shall** display a unique window that prompts the user to enter the following Task fields:

* Name **REQ-0016**
* Description **REQ-0017**
* Due Date **REQ-0018**
* Estimated Time to Completion **REQ-0019**

The system **shall** place the newly created Task into the Unassigned Tasks list. **REQ-0020**

**3.4.2 Modify Unassigned Task Fields Requirement**

The system **shall** allow users to modify the following fields of an Unassigned Task:

* Name **REQ-0021**
* Description **REQ-0022**
* Due Date **REQ-0023**
* Estimated Time to Completion **REQ-0024**

**3.4.3 Assign Task to Calendar Requirement**

The system **shall** allow the user to assign Tasks to the Calendar from the Unassigned Tasks list. **REQ-0025**

The Task **shall** move to the Assigned Tasks list when it is assigned. **REQ-0026**

**3.4.4 Invalid Assign Request Requirement**

The system **shall** prevent the user from assigning a Task to the Calendar if one of the following conditions are met:

* The Task is missing its Name field **REQ-0027**
* The Task is missing its Due Date field **REQ-0028**
* The Task is missing its Estimated Time to Completion field **REQ-0029**
* The amount of free time between the time of the assign request and the Due Date is less than the Task’s Estimated Time to Completion **REQ-0030**

**3.4.5 Unassign Currently Assigned Task Requirement**

The system **shall** allow users to unassign an Assigned Task from the Calendar. **REQ-0031**

The Task **shall** move to the Unassigned Tasks list when it is unassigned. **REQ-0032**

**3.4.6 Delete Assigned Task Requirement**

The system **shall** allow users to delete a currently assigned Task. **REQ-0033**

The system **shall** make the Blocks that the Task was occupying into Free Time Blocks. **REQ-0034**

**3.4.7 Delete Unassigned Task Requirement**

The system **shall** allow users to delete an Unassigned Task. **REQ-0035**