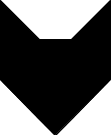
Use Case Model

G-Squared Time Tracker

Catt Software



Submitted By: Russell Hurtado

Submitted To: Calvin Caldwell

E-mail: russell.hurtado@oit.edu

Date: 10/19/16

Release: 1.0

Version: 1.0

1 Signatory Page

This documented accepted by:

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Signature (Calvin Caldwell) Date

This documented accepted by:

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Signature (Russell Hurtado) Date

2 Revision History

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Author | Company | Version | Date | File Name | Comments |
| Russell Hurtado | Catt Software | 0.1 | 10/19/2016 | Senior Project Proposal.docx | First draft of the proposal |
| Russell Hurtado | Catt Software | 0.2 | 10/20/2016 | Senior Project Proposal.docx | Added Low Fidelity UI |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

3 Table of Contents

[1 Signatory Page 2](#_Toc464823413)

[2 Revision History 3](#_Toc464823414)

[4 Context Diagram 5](#_Toc464823415)

[5 Use Case Catalog 5](#_Toc464823416)

[6 Actor Catalog 5](#_Toc464823417)

[7 Features Verification Matrix 6](#_Toc464823418)

[8 Use Case Specifications 7](#_Toc464823419)

[01 Create Project 7](#_Toc464823420)

[02 Input Time 9](#_Toc464823421)

[03 Generate Report 11](#_Toc464823422)

[04 Send Notification 13](#_Toc464823423)

[05 Export Data 15](#_Toc464823424)

[06 Access Data 17](#_Toc464823425)

[07 Add User 20](#_Toc464823426)

[08 Remove User 22](#_Toc464823427)

[09 Change User Access 24](#_Toc464823428)

[10 Assign Project Lead(s) 26](#_Toc464823429)

[9 CRUD Matrix 29](#_Toc464823430)

[10 Low fidelity UI 30](#_Toc464823431)

[Appendix A 31](#_Toc464823432)

[Business Rules 31](#_Toc464823433)

[1) Time Input Increments 31](#_Toc464823434)

[2) Monthly Report Parameters 31](#_Toc464823435)

[3) User Privileges 31](#_Toc464823436)

[4) Administrator Removal 31](#_Toc464823437)

4 Context Diagram



5 Use Case Catalog

|  |  |  |
| --- | --- | --- |
| Use Case ID | Use Case Name | Description |
| 01 | Create project | User will create a project |
| 02 | Input time | User will input time in a project |
| 03 | Generate report | User will generate a monthly report for a project |
| 04 | Send notification | User will send a notification to another user |
| 05 | Export data | User will export data from project(s) |
| 06 | Access data | Administrator will access data a user’s data |
| 07 | Add user | Administrator will add a user to the system |
| 08 | Remove user | Administrator will remove a user from the system |
| 09 | Change user access | Administrator will change the access permissions for a user |
| 10 | Assign project lead(s) | Administrator will assign a lead |

6 Actor Catalog

|  |  |  |
| --- | --- | --- |
| Name | Type | Description |
| User | Person | Performs basic tasks with project details |
| Administrator | Person | Additionally performs CRUD functions on user accounts |

7 Features Verification Matrix

|  |  |  |
| --- | --- | --- |
| Feature number | Use Case ID | Use Case Name |
| 1.1.1.1, 2.1.1-2.1.4, 2.1.6, 2.1.7 | 01 | Create project |
| 1.1.1.2, 2.2 | 02 | Input time |
| 1.1.1.3, 3 | 03 | Generate report |
| 1.1.1.4, 4 | 04 | Send notification |
| 1.1.1.5, 5 | 05 | Export data |
| 1.2.1 | 06 | Access data |
| 1.1, 1.1.1, 1.1.2, 1.2, 1.2.2 | 07 | Add user |
| 1.2.3 | 08 | Remove user |
| 1.2.4 | 09 | Change user access |
| 2.1.5 | 10 | Create project |

8 Use Case Specifications

01 Create Project

|  |  |
| --- | --- |
| **General Information** | |
| Use Case Number : 01  Use Case Name : Create project  Subject Area : Projects and Sub-projects  Description : User will create a project | Responsible Analyst : Hurtado |

|  |  |
| --- | --- |
| **Requirements/Feature Trace** | |
| **REQ#** | **Requirements Name and / or Short Description** |
| 1.1.1.1 | Users will have access to project and sub-project creation |
| 2.1 | Projects will have 7 properties |
|  |  |
|  |  |

|  |  |  |
| --- | --- | --- |
| **Revision History** | | |
| **Author** | **Date** | **Comments** |
| Hurtado | 10/5/16 | First draft |
| Hurtado | 10/10/16 | Added business rule previously brought up in Issues |
|  |  |  |
|  |  |  |

|  |  |  |
| --- | --- | --- |
| **Insertion Points in other Use Cases** | | |
| **Use Case Name** | **Use Case Number** | **Step Inserted After** |
| N/A |  |  |
|  |  |  |

|  |  |  |
| --- | --- | --- |
| **Actors** | | |
| **Actor Name** | **Person/System** | **Brief Description** |
| User | Person | Performs basic tasks with project details |
| Administrator | Person | Additionally performs CRUD functions on user accounts |
|  |  |  |

|  |  |
| --- | --- |
| **Pre-Conditions** | |
| # | Description |
| 1 | User has a valid account on the system |
| 2 | Main screen is displayed |

|  |
| --- |
| **Start Stimulus** |
| User Navigates to the menu and hits “Create Project” button |

|  |  |  |  |
| --- | --- | --- | --- |
| **Use Case Main Course Steps** | | | |
| **Number** | **Description** | **Adds/Alt Name/Number** | **Bus Rule#** |
| 1 | User Navigates to the menu and hits “Create Project” button |  |  |
| 2 | System prompts for a project title |  |  |
| 3 | User enters project title |  |  |
| 4 | System prompts for a description |  |  |
| 5 | User enters description (optional) |  |  |
| 6 | System prompts for a list of users working on the project |  |  |
| 7 | User enters list of users |  |  |
| 8 | System prompts for the amount of time already spent on the project |  |  |
| 9 | User enters amount of hours |  | 01 |
| 10 | System prompts for a project leader(s) |  |  |
| 11 | User enters project leader(s) |  |  |
| 12 | System prompts for a start date for project |  |  |
| 13 | User enters start date |  |  |
| 14 | System prompts for a finish date |  |  |
| 15 | User enters finish date |  |  |
| 16 | System displays project creation review page |  |  |
| 17 | User clicks accept |  |  |
| 18 | System displays success dialog |  |  |

|  |  |  |
| --- | --- | --- |
| **Exception Conditions** | | |
| **Exception Situations** | **Action(s) on Exception** | **Adds\Alt UC #** |
| Project title already exists within their system | Display error msg, then redisplay project title prompt |  |
| End date comes before start date | Display error msg, then redisplay start and end date prompts |  |

|  |  |
| --- | --- |
| **Post-Conditions** | |
| **#** | **Description** |
| 1 | Project is added to system |
| 2 | System is displaying main screen |
| 3 | Users on project user list are notified of inclusion in project |

|  |  |  |
| --- | --- | --- |
| **Candidate Objects** | | |
| **Class/Object Name** | **Descriptions** | **Possible**  **attributes** |
| Project | Holds project information | Title, users, start/end date |
| User | Holds user information | Name, projects, hours |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Assumptions** | | | | | |
| **#** | **Assumption** | **Date**  **Raised** | **Raised**  **By** | **Date**  **Verified** | **Verified By** |
| 1 | User can read/write English | 10/5/16 | Hurtado |  |  |
|  |  |  |  |  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Issues** | | | | | |
| **#** | **Issue** | **Date**  **Raised** | **Raised**  **By** | **Date**  **Verified** | **Verified By** |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

|  |  |  |
| --- | --- | --- |
| **Other Comments** | | |
| **Author** | **Comment** | **Date** |
|  |  |  |

|  |
| --- |
| **Frequency of Execution** |
| **Frequency:**  Minimum: 0 Maximum: 127 Average: 5 (OR)Fixed:  **Per:** Hour:Day:  Week:  Month:  Other: |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Timing Information** | | | | | | | |
| **#** | **At/**  **Between** | **Step(s)** | **Timing**  **Unit** | **Minimum** | **Average** | **Maximum** | **Comments** |
|  | N/A |  |  |  |  |  |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Volume Information** | | | | | | |
| **#** | **Step #** | **Unit of**  **Measure** | **Minimum** | **Average** | **Maximum** | **Comments** |
| 1 | 17 | Bytes | 40 | 500 | 2048 | The 7 properties of the project |
|  |  |  |  |  |  |  |

02 Input Time

|  |  |
| --- | --- |
| **General Information** | |
| Use Case Number : 02  Use Case Name : Input time  Subject Area : Projects and Sub-projects  Description : User will input time in a project | Responsible Analyst : Hurtado |

|  |  |
| --- | --- |
| **Requirements/Feature Trace** | |
| **REQ#** | **Requirements Name and / or Short Description** |
| 1.1.1.2 | Users will have access to time input for projects |
| 2.2 | Projects will allow for time input in hours spent daily |
|  |  |
|  |  |

|  |  |  |
| --- | --- | --- |
| **Revision History** | | |
| **Author** | **Date** | **Comments** |
| Hurtado | 10/10/16 | First draft |
|  |  |  |
|  |  |  |
|  |  |  |

|  |  |  |
| --- | --- | --- |
| **Insertion Points in other Use Cases** | | |
| **Use Case Name** | **Use Case Number** | **Step Inserted After** |
| N/A |  |  |
|  |  |  |

|  |  |  |
| --- | --- | --- |
| **Actors** | | |
| **Actor Name** | **Person/System** | **Brief Description** |
| User | Person | Performs basic tasks with project details |
| Administrator | Person | Additionally performs CRUD functions on user accounts |
|  |  |  |

|  |  |
| --- | --- |
| **Pre-Conditions** | |
| # | Description |
| 1 | User has a valid account on the system |
| 2 | Main screen is displayed |

|  |
| --- |
| **Start Stimulus** |
| User Navigates to the menu and hits “Input Time” button |

|  |  |  |  |
| --- | --- | --- | --- |
| **Use Case Main Course Steps** | | | |
| **Number** | **Description** | **Adds/Alt Name/Number** | **Bus Rule#** |
| 1 | User navigates to the menu and hits “Input Time” button |  |  |
| 2 | System prompts for a project name |  |  |
| 3 | User selects project from list provided |  |  |
| 4 | System prompts for the amount of time spent on the project |  |  |
| 5 | User enters amount of hours |  | 01 |
| 6 | System displays success dialog |  |  |

|  |  |  |
| --- | --- | --- |
| **Exception Conditions** | | |
| **Exception Situations** | **Action(s) on Exception** | **Adds\Alt UC #** |
|  |  |  |

|  |  |
| --- | --- |
| **Post-Conditions** | |
| **#** | **Description** |
| 1 | Project time is updated in the system |
| 2 | System is displaying main screen |
| 3 | Users on project user list are notified of update in project |

|  |  |  |
| --- | --- | --- |
| **Candidate Objects** | | |
| **Class/Object Name** | **Descriptions** | **Possible**  **attributes** |
| Project | Holds project information | Title, users, start/end date |
| User | Holds user information | Name, projects, hours |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Assumptions** | | | | | |
| **#** | **Assumption** | **Date**  **Raised** | **Raised**  **By** | **Date**  **Verified** | **Verified By** |
| 1 | User can read/write English | 10/10/16 | Hurtado |  |  |
|  |  |  |  |  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Issues** | | | | | |
| **#** | **Issue** | **Date**  **Raised** | **Raised**  **By** | **Date**  **Verified** | **Verified By** |
|  |  |  |  |  |  |

|  |  |  |
| --- | --- | --- |
| **Other Comments** | | |
| **Author** | **Comment** | **Date** |
|  |  |  |

|  |
| --- |
| **Frequency of Execution** |
| **Frequency:**  Minimum: 0 Maximum: 1023 Average: 50 (OR)Fixed:  **Per:** Hour:Day:  Week:  Month:  Other: |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Timing Information** | | | | | | | |
| **#** | **At/**  **Between** | **Step(s)** | **Timing**  **Unit** | **Minimum** | **Average** | **Maximum** | **Comments** |
|  | N/A |  |  |  |  |  |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Volume Information** | | | | | | |
| **#** | **Step #** | **Unit of**  **Measure** | **Minimum** | **Average** | **Maximum** | **Comments** |
| 1 | 6 | Bytes | 11 | 40 | 127 | The project title, time input, and user name |
|  |  |  |  |  |  |  |

03 Generate Report

|  |  |
| --- | --- |
| **General Information** | |
| Use Case Number : 03  Use Case Name : Generate report  Subject Area : Monthly Reports  Description : User will generate a monthly report | Responsible Analyst : Hurtado |

|  |  |
| --- | --- |
| **Requirements/Feature Trace** | |
| **REQ#** | **Requirements Name and / or Short Description** |
| 1.1.1.3 | Users will have access to monthly report generation |
| 3 | Monthly reports |
|  |  |
|  |  |

|  |  |  |
| --- | --- | --- |
| **Revision History** | | |
| **Author** | **Date** | **Comments** |
| Hurtado | 10/11/16 | First draft |
|  |  |  |
|  |  |  |
|  |  |  |

|  |  |  |
| --- | --- | --- |
| **Insertion Points in other Use Cases** | | |
| **Use Case Name** | **Use Case Number** | **Step Inserted After** |
| N/A |  |  |
|  |  |  |

|  |  |  |
| --- | --- | --- |
| **Actors** | | |
| **Actor Name** | **Person/System** | **Brief Description** |
| User | Person | Performs basic tasks with project details |
| Administrator | Person | Additionally performs CRUD functions on user accounts |
|  |  |  |

|  |  |
| --- | --- |
| **Pre-Conditions** | |
| # | Description |
| 1 | User has a valid account on the system |
| 2 | Main screen is displayed |

|  |
| --- |
| **Start Stimulus** |
| User Navigates to the menu and hits “Generate Report” button |

|  |  |  |  |
| --- | --- | --- | --- |
| **Use Case Main Course Steps** | | | |
| **Number** | **Description** | **Adds/Alt Name/Number** | **Bus Rule#** |
| 1 | User Navigates to the menu and hits “Generate Report” button |  |  |
| 2 | System prompts for parameters |  | 02 |
| 3 | User selects parameters |  | 02 |
| 4 | System generates report |  |  |
| 5 | System displays report |  |  |

|  |  |  |
| --- | --- | --- |
| **Exception Conditions** | | |
| **Exception Situations** | **Action(s) on Exception** | **Adds\Alt UC #** |
| User has never input time on a project | Display error msg, then redisplay main screen |  |
| System generates an empty report | Display error msg, then redisplay main screen |  |
|  |  |  |

|  |  |
| --- | --- |
| **Post-Conditions** | |
| **#** | **Description** |
| 1 | Report is added to an archive of reports |

|  |  |  |
| --- | --- | --- |
| **Candidate Objects** | | |
| **Class/Object Name** | **Descriptions** | **Possible**  **attributes** |
| Project | Holds project information | Title, users, start/end date |
| User | Holds user information | Name, projects, hours |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Assumptions** | | | | | |
| **#** | **Assumption** | **Date**  **Raised** | **Raised**  **By** | **Date**  **Verified** | **Verified By** |
| 1 | User can read/write English | 10/11/16 | Hurtado |  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Issues** | | | | | |
| **#** | **Issue** | **Date**  **Raised** | **Raised**  **By** | **Date**  **Verified** | **Verified By** |
|  |  |  |  |  |  |

|  |  |  |
| --- | --- | --- |
| **Other Comments** | | |
| **Author** | **Comment** | **Date** |
|  |  |  |

|  |
| --- |
| **Frequency of Execution** |
| **Frequency:**  Minimum: 0 Maximum: 127 Average: 5 (OR)Fixed:  **Per:** Hour:Day:  Week:  Month:  Other: |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Timing Information** | | | | | | | |
| **#** | **At/**  **Between** | **Step(s)** | **Timing**  **Unit** | **Minimum** | **Average** | **Maximum** | **Comments** |
|  | N/A |  |  |  |  |  |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Volume Information** | | | | | | |
| **#** | **Step #** | **Unit of**  **Measure** | **Minimum** | **Average** | **Maximum** | **Comments** |
| 1 | 5 | kiloBytes | 1 | 500 | 2048 | The projects listed, with colors |
|  |  |  |  |  |  |  |

04 Send Notification

|  |  |
| --- | --- |
| **General Information** | |
| Use Case Number : 04  Use Case Name : Send notification  Subject Area : Notifications  Description : User will send a notification to another user | Responsible Analyst : Hurtado |

|  |  |
| --- | --- |
| **Requirements/Feature Trace** | |
| **REQ#** | **Requirements Name and / or Short Description** |
| 1.1.1.4 | Users will have access to notifications |
| 4 | Notifications |
|  |  |
|  |  |

|  |  |  |
| --- | --- | --- |
| **Revision History** | | |
| **Author** | **Date** | **Comments** |
| Hurtado | 10/12/16 | First draft |
|  |  |  |
|  |  |  |
|  |  |  |

|  |  |  |
| --- | --- | --- |
| **Insertion Points in other Use Cases** | | |
| **Use Case Name** | **Use Case Number** | **Step Inserted After** |
| N/A |  |  |
|  |  |  |

|  |  |  |
| --- | --- | --- |
| **Actors** | | |
| **Actor Name** | **Person/System** | **Brief Description** |
| User | Person | Performs basic tasks with project details |
| Administrator | Person | Additionally performs CRUD functions on user accounts |
|  |  |  |

|  |  |
| --- | --- |
| **Pre-Conditions** | |
| # | Description |
| 1 | User has a valid account on the system |
| 2 | Main screen is displayed |

|  |
| --- |
| **Start Stimulus** |
| User Navigates to the menu and hits “Notification” button |

|  |  |  |  |
| --- | --- | --- | --- |
| **Use Case Main Course Steps** | | | |
| **Number** | **Description** | **Adds/Alt Name/Number** | **Bus Rule#** |
| 1 | User Navigates to the menu and hits “Notification” button |  |  |
| 2 | System displays notification screen |  |  |
| 3 | User selects “New Message” button |  |  |
| 4 | System prompts for receiver(s) |  |  |
| 5 | User enters receiver(s) |  |  |
| 6 | System prompts for message |  |  |
| 7 | User enters message |  |  |
| 8 | User selects send |  |  |
| 9 | System displays success dialog |  |  |

|  |  |  |
| --- | --- | --- |
| **Exception Conditions** | | |
| **Exception Situations** | **Action(s) on Exception** | **Adds\Alt UC #** |
| Receiver(s) don’t exist within their system or is empty | Display error msg, then redisplay receiver(s) prompt |  |
| Message is empty | Display error msg, then redisplay message prompt |  |

|  |  |
| --- | --- |
| **Post-Conditions** | |
| **#** | **Description** |
| 1 | System is displaying main screen |
| 2 | Users on receiver list are sent the notification |

|  |  |  |
| --- | --- | --- |
| **Candidate Objects** | | |
| **Class/Object Name** | **Descriptions** | **Possible**  **attributes** |
| Project | Holds project information | Title, users, start/end date |
| User | Holds user information | Name, projects, hours |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Assumptions** | | | | | |
| **#** | **Assumption** | **Date**  **Raised** | **Raised**  **By** | **Date**  **Verified** | **Verified By** |
| 1 | User can read/write English | 10/12/16 | Hurtado |  |  |
|  |  |  |  |  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Issues** | | | | | |
| **#** | **Issue** | **Date**  **Raised** | **Raised**  **By** | **Date**  **Verified** | **Verified By** |
|  |  |  |  |  |  |

|  |  |  |
| --- | --- | --- |
| **Other Comments** | | |
| **Author** | **Comment** | **Date** |
|  |  |  |

|  |
| --- |
| **Frequency of Execution** |
| **Frequency:**  Minimum: 0 Maximum: 2047 Average: 15 (OR)Fixed:  **Per:** Hour:Day:  Week:  Month:  Other: |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Timing Information** | | | | | | | |
| **#** | **At/**  **Between** | **Step(s)** | **Timing**  **Unit** | **Minimum** | **Average** | **Maximum** | **Comments** |
|  | N/A |  |  |  |  |  |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Volume Information** | | | | | | |
| **#** | **Step #** | **Unit of**  **Measure** | **Minimum** | **Average** | **Maximum** | **Comments** |
| 1 | 9 | Bytes | 11 | 100 | 2048 | The sender, receiver(s), and message |
|  |  |  |  |  |  |  |

05 Export Data

|  |  |  |
| --- | --- | --- |
| **General Information** | | |
| Use Case Number : 05  Use Case Name : Export data  Subject Area : Exporting Data  Description : User will export data from project(s) | | Responsible Analyst : Hurtado |
| **Requirements/Feature Trace** | | |
| **REQ#** | **Requirements Name and / or Short Description** | |
| 1.1.1.5 | Users will have access to data exportation | |
| 5 | Exporting data | |
|  |  | |
|  |  | |

|  |  |  |
| --- | --- | --- |
| **Revision History** | | |
| **Author** | **Date** | **Comments** |
| Hurtado | 10/13/16 | First draft |
|  |  |  |
|  |  |  |
|  |  |  |

|  |  |  |
| --- | --- | --- |
| **Insertion Points in other Use Cases** | | |
| **Use Case Name** | **Use Case Number** | **Step Inserted After** |
| N/A |  |  |
|  |  |  |

|  |  |  |
| --- | --- | --- |
| **Actors** | | |
| **Actor Name** | **Person/System** | **Brief Description** |
| User | Person | Performs basic tasks with project details |
| Administrator | Person | Additionally performs CRUD functions on user accounts |
|  |  |  |

|  |  |
| --- | --- |
| **Pre-Conditions** | |
| # | Description |
| 1 | User has a valid account on the system |
| 2 | Main screen is displayed |

|  |
| --- |
| **Start Stimulus** |
| User Navigates to the menu and hits “Export Data” button |

|  |  |  |  |
| --- | --- | --- | --- |
| **Use Case Main Course Steps** | | | |
| **Number** | **Description** | **Adds/Alt Name/Number** | **Bus Rule#** |
| 1 | User Navigates to the menu and hits “Export Data” button |  |  |
| 2 | System prompts user for desired file location of exported data |  |  |
| 3 | User selects a directory for the file to be stored in |  |  |
| 4 | System generates a csv file with the data |  |  |
| 5 | System displays a success dialog |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
| **Exception Conditions** | | | |
| **Exception Situations** | | **Action(s) on Exception** | **Adds\Alt UC #** |
| File destination is read-only | | Display error msg, then redisplay file location prompt |  |
| **Post-Conditions** | | | |
| **#** | **Description** | | |
| 1 | Csv file is added to the desired location | | |
| 2 | System is displaying main screen | | |

|  |  |  |
| --- | --- | --- |
| **Candidate Objects** | | |
| **Class/Object Name** | **Descriptions** | **Possible**  **attributes** |
| Project | Holds project information | Title, users, start/end date |
| User | Holds user information | Name, projects, hours |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Assumptions** | | | | | |
| **#** | **Assumption** | **Date**  **Raised** | **Raised**  **By** | **Date**  **Verified** | **Verified By** |
| 1 | User can read/write English | 10/13/16 | Hurtado |  |  |
|  |  |  |  |  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Issues** | | | | | |
| **#** | **Issue** | **Date**  **Raised** | **Raised**  **By** | **Date**  **Verified** | **Verified By** |
|  |  |  |  |  |  |

|  |  |  |
| --- | --- | --- |
| **Other Comments** | | |
| **Author** | **Comment** | **Date** |
|  |  |  |

|  |
| --- |
| **Frequency of Execution** |
| **Frequency:**  Minimum: 0 Maximum: 127 Average: 5 (OR)Fixed:  **Per:** Hour:Day:  Week:  Month:  Other: |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Timing Information** | | | | | | | |
| **#** | **At/**  **Between** | **Step(s)** | **Timing**  **Unit** | **Minimum** | **Average** | **Maximum** | **Comments** |
|  | N/A |  |  |  |  |  |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Volume Information** | | | | | | |
| **#** | **Step #** | **Unit of**  **Measure** | **Minimum** | **Average** | **Maximum** | **Comments** |
| 1 | 5 | kiloBytes | 1 | 500 | 2048 | The user type, projects, monthly reports, and notifications |
|  |  |  |  |  |  |  |

06 Access Data

|  |  |
| --- | --- |
| **General Information** | |
| Use Case Number : 06  Use Case Name : Access Data  Subject Area : User Types  Description : Administrator will access a user’s data | Responsible Analyst : Hurtado |

|  |  |
| --- | --- |
| **Requirements/Feature Trace** | |
| **REQ#** | **Requirements Name and / or Short Description** |
| 1.2.1 | Administrators will have access to all data a user inputs |
|  |  |
|  |  |
|  |  |

|  |  |  |
| --- | --- | --- |
| **Revision History** | | |
| **Author** | **Date** | **Comments** |
| Hurtado | 10/14/16 | First draft |
|  |  |  |
|  |  |  |
|  |  |  |

|  |  |  |
| --- | --- | --- |
| **Insertion Points in other Use Cases** | | |
| **Use Case Name** | **Use Case Number** | **Step Inserted After** |
| N/A |  |  |
|  |  |  |

|  |  |  |
| --- | --- | --- |
| **Actors** | | |
| **Actor Name** | **Person/System** | **Brief Description** |
| User | Person | Performs basic tasks with project details |
| Administrator | Person | Additionally performs CRUD functions on user accounts |
|  |  |  |

|  |  |
| --- | --- |
| **Pre-Conditions** | |
| # | Description |
| 1 | User has a valid account on the system and is an administrator |
| 2 | Main screen is displayed |

|  |
| --- |
| **Start Stimulus** |
| Administrator Navigates to the menu and hits “Access Data” button |

|  |  |  |  |
| --- | --- | --- | --- |
| **Use Case Main Course Steps** | | | |
| **Number** | **Description** | **Adds/Alt Name/Number** | **Bus Rule#** |
| 1 | Administrator Navigates to the menu and hits “Access Data” button |  |  |
| 2 | System prompts for user name to access |  |  |
| 3 | User enters user name |  |  |
| 4 | System generates data from user |  |  |
| 5 | System displays data from user |  |  |

|  |  |  |
| --- | --- | --- |
| **Exception Conditions** | | |
| **Exception Situations** | **Action(s) on Exception** | **Adds\Alt UC #** |
| User name doesn’t exit in the system | Display error msg, then redisplay user name prompt |  |

|  |  |
| --- | --- |
| **Post-Conditions** | |
| **#** | **Description** |
| 1 | System is displaying user’s data |

|  |  |  |
| --- | --- | --- |
| **Candidate Objects** | | |
| **Class/Object Name** | **Descriptions** | **Possible**  **attributes** |
| Project | Holds project information | Title, users, start/end date |
| User | Holds user information | Name, projects, hours |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Assumptions** | | | | | |
| **#** | **Assumption** | **Date**  **Raised** | **Raised**  **By** | **Date**  **Verified** | **Verified By** |
| 1 | User can read/write English | 10/14/16 | Hurtado |  |  |
|  |  |  |  |  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Issues** | | | | | |
| **#** | **Issue** | **Date**  **Raised** | **Raised**  **By** | **Date**  **Verified** | **Verified By** |
|  |  |  |  |  |  |

|  |  |  |
| --- | --- | --- |
| **Other Comments** | | |
| **Author** | **Comment** | **Date** |
|  |  |  |

|  |
| --- |
| **Frequency of Execution** |
| **Frequency:**  Minimum: 0 Maximum: 1024 Average: 1 (OR)Fixed:  **Per:** Hour:Day:  Week:  Month:  Other: |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Timing Information** | | | | | | | |
| **#** | **At/**  **Between** | **Step(s)** | **Timing**  **Unit** | **Minimum** | **Average** | **Maximum** | **Comments** |
|  | N/A |  |  |  |  |  |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Volume Information** | | | | | | |
| **#** | **Step #** | **Unit of**  **Measure** | **Minimum** | **Average** | **Maximum** | **Comments** |
| 1 | 5 | kiloBytes | 1 | 500 | 2048 | The user type, projects, monthly reports, and notifications |
|  |  |  |  |  |  |  |

07 Add User

|  |  |
| --- | --- |
| **General Information** | |
| Use Case Number : 07  Use Case Name : Add user  Subject Area : User Types  Description : Administrator will add a user to the system | Responsible Analyst : Hurtado |

|  |  |
| --- | --- |
| **Requirements/Feature Trace** | |
| **REQ#** | **Requirements Name and / or Short Description** |
| 1.1 | The first user type will be a user |
| 1.1.1 | Users will have access to the basic functions |
| 1.1.2 | Users will not be able to see features not accessible to them |
| 1.2 | The second user type will be an administrator |
| 1.2.2 | Administrators will be a privileged version of a user |

|  |  |  |
| --- | --- | --- |
| **Revision History** | | |
| **Author** | **Date** | **Comments** |
| Hurtado | 10/15/16 | First draft |
|  |  |  |
|  |  |  |
|  |  |  |

|  |  |  |
| --- | --- | --- |
| **Insertion Points in other Use Cases** | | |
| **Use Case Name** | **Use Case Number** | **Step Inserted After** |
| N/A |  |  |
|  |  |  |

|  |  |  |
| --- | --- | --- |
| **Actors** | | |
| **Actor Name** | **Person/System** | **Brief Description** |
| User | Person | Performs basic tasks with project details |
| Administrator | Person | Additionally performs CRUD functions on user accounts |
|  |  |  |

|  |  |
| --- | --- |
| **Pre-Conditions** | |
| # | Description |
| 1 | User has a valid account on the system and is an administrator |
| 2 | Main screen is displayed |

|  |
| --- |
| **Start Stimulus** |
| Administrator Navigates to the menu and hits “Add User” button |

|  |  |  |  |
| --- | --- | --- | --- |
| **Use Case Main Course Steps** | | | |
| **Number** | **Description** | **Adds/Alt Name/Number** | **Bus Rule#** |
| 1 | Administrator Navigates to the menu and hits “Add User” button |  |  |
| 2 | System prompts for a user name |  |  |
| 3 | Administrator enters a user name |  |  |
| 4 | System prompts for user type |  | 3 |
| 5 | Administrator selects user type |  | 3 |
| 6 | System displays a success dialog |  |  |

|  |  |  |
| --- | --- | --- |
| **Exception Conditions** | | |
| **Exception Situations** | **Action(s) on Exception** | **Adds\Alt UC #** |
| User already exists within their system | Display error msg, then redisplay user name prompt |  |

|  |  |
| --- | --- |
| **Post-Conditions** | |
| **#** | **Description** |
| 1 | User is added to system |
| 2 | System is displaying main screen |
| 3 | Users is sent a welcome notification |

|  |  |  |
| --- | --- | --- |
| **Candidate Objects** | | |
| **Class/Object Name** | **Descriptions** | **Possible**  **attributes** |
| Project | Holds project information | Title, users, start/end date |
| User | Holds user information | Name, projects, hours |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Assumptions** | | | | | |
| **#** | **Assumption** | **Date**  **Raised** | **Raised**  **By** | **Date**  **Verified** | **Verified By** |
| 1 | User can read/write English | 10/15/16 | Hurtado |  |  |
|  |  |  |  |  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Issues** | | | | | |
| **#** | **Issue** | **Date**  **Raised** | **Raised**  **By** | **Date**  **Verified** | **Verified By** |
|  |  |  |  |  |  |

|  |  |  |
| --- | --- | --- |
| **Other Comments** | | |
| **Author** | **Comment** | **Date** |
|  |  |  |

|  |
| --- |
| **Frequency of Execution** |
| **Frequency:**  Minimum: 0 Maximum: 127 Average: 1 (OR)Fixed:  **Per:** Hour:Day:  Week:  Month:  Other: |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Timing Information** | | | | | | | |
| **#** | **At/**  **Between** | **Step(s)** | **Timing**  **Unit** | **Minimum** | **Average** | **Maximum** | **Comments** |
|  | N/A |  |  |  |  |  |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Volume Information** | | | | | | |
| **#** | **Step #** | **Unit of**  **Measure** | **Minimum** | **Average** | **Maximum** | **Comments** |
| 1 | 6 | Bytes | 6 | 10 | 51 | The user’s name and type |
|  |  |  |  |  |  |  |

08 Remove User

|  |  |
| --- | --- |
| **General Information** | |
| Use Case Number : 08  Use Case Name : Remove user  Subject Area : User types  Description : Administrator will remove a user from the system | Responsible Analyst : Hurtado |

|  |  |
| --- | --- |
| **Requirements/Feature Trace** | |
| **REQ#** | **Requirements Name and / or Short Description** |
| 1.2.3 | Administrators will have the ability to add more users |
|  |  |
|  |  |

|  |  |  |
| --- | --- | --- |
| **Revision History** | | |
| **Author** | **Date** | **Comments** |
| Hurtado | 10/16/16 | First draft |
|  |  |  |
|  |  |  |
|  |  |  |

|  |  |  |
| --- | --- | --- |
| **Insertion Points in other Use Cases** | | |
| **Use Case Name** | **Use Case Number** | **Step Inserted After** |
| N/A |  |  |
|  |  |  |

|  |  |  |
| --- | --- | --- |
| **Actors** | | |
| **Actor Name** | **Person/System** | **Brief Description** |
| User | Person | Performs basic tasks with project details |
| Administrator | Person | Additionally performs CRUD functions on user accounts |
|  |  |  |

|  |  |
| --- | --- |
| **Pre-Conditions** | |
| # | Description |
| 1 | User has a valid account on the system and is an administrator |
| 2 | Main screen is displayed |

|  |
| --- |
| **Start Stimulus** |
| Administrator Navigates to the menu and hits “Remove User” button |

|  |  |  |  |
| --- | --- | --- | --- |
| **Use Case Main Course Steps** | | | |
| **Number** | **Description** | **Adds/Alt Name/Number** | **Bus Rule#** |
| 1 | User Navigates to the menu and hits “Remove User” button |  |  |
| 2 | System prompts for a user name |  |  |
| 3 | User enters user name |  |  |
| 4 | System prompts for a second administrator’s name |  | 4 |
| 5 | User enters second administrator’s name |  | 4 |
| 6 | System sends a notification to the second administrator |  | 4 |
| 7 | Second administrator accepts the removal request |  | 4 |
| 8 | System displays a success dialog |  |  |

|  |  |  |
| --- | --- | --- |
| **Exception Conditions** | | |
| **Exception Situations** | **Action(s) on Exception** | **Adds\Alt UC #** |
| User does not exist within the system | Display error msg, then redisplay user name prompt |  |
| Second administrator does not exist within the system | Display error msg, then redisplay second administrator name prompt |  |
| Second administrator rejects removal request or does not reply | Display failure msg |  |

|  |  |
| --- | --- |
| **Post-Conditions** | |
| **#** | **Description** |
| 1 | Project is added to system |
| 2 | System is displaying main screen |
| 3 | Users on project user list are notified of removal from each project |

|  |  |  |
| --- | --- | --- |
| **Candidate Objects** | | |
| **Class/Object Name** | **Descriptions** | **Possible**  **attributes** |
| Project | Holds project information | Title, users, start/end date |
| User | Holds user information | Name, projects, hours |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Assumptions** | | | | | |
| **#** | **Assumption** | **Date**  **Raised** | **Raised**  **By** | **Date**  **Verified** | **Verified By** |
| 1 | User can read/write English | 10/16/16 | Hurtado |  |  |
|  |  |  |  |  |  |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Issues** | | | | | | | |
| **#** | **Issue** | | **Date**  **Raised** | **Raised**  **By** | **Date**  **Verified** | **Verified By** | |
|  |  | |  |  |  |  | |
| **Other Comments** | | | | | | | |
| **Author** | | **Comment** | | | | | **Date** |
| Hurtado | | Business rule 4 requires that there will always be on administrator left in the system | | | | | 10/16/16 |

|  |
| --- |
| **Frequency of Execution** |
| **Frequency:**  Minimum: 0 Maximum: 127 Average: 0 (OR)Fixed:  **Per:** Hour:Day:  Week:  Month:  Other: |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Timing Information** | | | | | | | |
| **#** | **At/**  **Between** | **Step(s)** | **Timing**  **Unit** | **Minimum** | **Average** | **Maximum** | **Comments** |
| 1 | Between | 6-8 | Seconds | 1 | 30 | 300 | Gives the second user time to decide on removal request |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Volume Information** | | | | | | |
| **#** | **Step #** | **Unit of**  **Measure** | **Minimum** | **Average** | **Maximum** | **Comments** |
| 1 | 6 | Bytes | 16 | 20 | 151 | The first administrator’s name, second administrator’s name, user’s name and removal request flag |
|  | 7 | Bytes | 7 | 10 | 52 | First administrator’s name and response to removal request with flags |

09 Change User Access

|  |  |
| --- | --- |
| **General Information** | |
| Use Case Number : 09  Use Case Name : Change user access  Subject Area : User types  Description : Administrator will change access permission for a user | Responsible Analyst : Hurtado |

|  |  |
| --- | --- |
| **Requirements/Feature Trace** | |
| **REQ#** | **Requirements Name and / or Short Description** |
| 1.2.4 | Administrators will have the ability to add/remove access for users on the user list |
|  |  |
|  |  |
|  |  |

|  |  |  |
| --- | --- | --- |
| **Revision History** | | |
| **Author** | **Date** | **Comments** |
| Hurtado | 10/17/16 | First draft |
|  |  |  |
|  |  |  |
|  |  |  |

|  |  |  |
| --- | --- | --- |
| **Insertion Points in other Use Cases** | | |
| **Use Case Name** | **Use Case Number** | **Step Inserted After** |
| N/A |  |  |
|  |  |  |

|  |  |  |
| --- | --- | --- |
| **Actors** | | |
| **Actor Name** | **Person/System** | **Brief Description** |
| User | Person | Performs basic tasks with project details |
| Administrator | Person | Additionally performs CRUD functions on user accounts |
|  |  |  |

|  |  |
| --- | --- |
| **Pre-Conditions** | |
| # | Description |
| 1 | User has a valid account on the system and is an administrator |
| 2 | Main screen is displayed |

|  |
| --- |
| **Start Stimulus** |
| User Navigates to the menu and hits “Change Access” button |

|  |  |  |  |
| --- | --- | --- | --- |
| **Use Case Main Course Steps** | | | |
| **Number** | **Description** | **Adds/Alt Name/Number** | **Bus Rule#** |
| 1 | User Navigates to the menu and hits “Change Access” button |  |  |
| 2 | System prompts for user name |  |  |
| 3 | Administrator enters user name |  |  |
| 4 | System displays user review page |  |  |
| 5 | Administrator selects change user type |  | 3 |
| 6 | System changes user’s access |  | 4 |
| 7 | System displays success dialog |  |  |

|  |  |  |
| --- | --- | --- |
| **Exception Conditions** | | |
| **Exception Situations** | **Action(s) on Exception** | **Adds\Alt UC #** |
| Project title already exists within their system | Display error msg, then redisplay project title prompt |  |
| End date comes before start date | Display error msg, then redisplay start and end date prompts |  |

|  |  |
| --- | --- |
| **Post-Conditions** | |
| **#** | **Description** |
| 1 | System is displaying main screen |
| 2 | User is notified of access level change |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Candidate Objects** | | | | | | | |
| **Class/Object Name** | | **Descriptions** | | | | **Possible**  **attributes** | |
| Project | | Holds project information | | | | Title, users, start/end date | |
| User | | Holds user information | | | | Name, projects, hours | |
| **Assumptions** | | | | | | | |
| **#** | **Assumption** | | **Date**  **Raised** | **Raised**  **By** | **Date**  **Verified** | | **Verified By** |
| 1 | User can read/write English | | 10/17/16 | Hurtado |  | |  |
|  |  | |  |  |  | |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Issues** | | | | | |
| **#** | **Issue** | **Date**  **Raised** | **Raised**  **By** | **Date**  **Verified** | **Verified By** |
|  |  |  |  |  |  |

|  |  |  |
| --- | --- | --- |
| **Other Comments** | | |
| **Author** | **Comment** | **Date** |
|  |  |  |

|  |
| --- |
| **Frequency of Execution** |
| **Frequency:**  Minimum: 0 Maximum: 127 Average: 1 (OR)Fixed:  **Per:** Hour:Day:  Week:  Month:  Other: |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Timing Information** | | | | | | | |
| **#** | **At/**  **Between** | **Step(s)** | **Timing**  **Unit** | **Minimum** | **Average** | **Maximum** | **Comments** |
|  | N/A |  |  |  |  |  |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Volume Information** | | | | | | |
| **#** | **Step #** | **Unit of**  **Measure** | **Minimum** | **Average** | **Maximum** | **Comments** |
| 1 | 17 | Bytes | 6 | 10 | 51 | User name and access level |
|  |  |  |  |  |  |  |

10 Assign Project Lead(s)

|  |  |
| --- | --- |
| **General Information** | |
| Use Case Number : 10  Use Case Name : Assign project lead  Subject Area : Projects and Sub-projects  Description : Administrator will add a project lead | Responsible Analyst : Hurtado |

|  |  |
| --- | --- |
| **Requirements/Feature Trace** | |
| **REQ#** | **Requirements Name and / or Short Description** |
| 2.1.5 | Projects will have a project lead |
|  |  |
|  |  |
|  |  |

|  |  |  |
| --- | --- | --- |
| **Revision History** | | |
| **Author** | **Date** | **Comments** |
| Hurtado | 10/18/16 | First draft |
|  |  |  |
|  |  |  |
|  |  |  |

|  |  |  |
| --- | --- | --- |
| **Insertion Points in other Use Cases** | | |
| **Use Case Name** | **Use Case Number** | **Step Inserted After** |
| N/A |  |  |
|  |  |  |

|  |  |  |
| --- | --- | --- |
| **Actors** | | |
| **Actor Name** | **Person/System** | **Brief Description** |
| User | Person | Performs basic tasks with project details |
| Administrator | Person | Additionally performs CRUD functions on user accounts |
|  |  |  |

|  |  |
| --- | --- |
| **Pre-Conditions** | |
| # | Description |
| 1 | User has a valid account on the system and is an administrator |
| 2 | Main screen is displayed |

|  |
| --- |
| **Start Stimulus** |
| User Navigates to the menu and hits “Assign Project Lead” button |

|  |  |  |  |
| --- | --- | --- | --- |
| **Use Case Main Course Steps** | | | |
| **Number** | **Description** | **Adds/Alt Name/Number** | **Bus Rule#** |
| 1 | User Navigates to the menu and hits “Assign Project Lead” button |  |  |
| 2 | System prompts for a project title |  |  |
| 3 | Administrator selects project title |  |  |
| 4 | System prompts for user name |  |  |
| 5 | Administrator enters a project lead |  |  |
| 6 | System displays success dialog |  |  |

|  |  |  |
| --- | --- | --- |
| **Exception Conditions** | | |
| **Exception Situations** | **Action(s) on Exception** | **Adds\Alt UC #** |
| Project does not exist within the system | Display error msg, then redisplay project title prompt |  |
| User does not exist within the system | Display error msg, then redisplay user name prompt |  |

|  |  |  |  |
| --- | --- | --- | --- |
| **Post-Conditions** | | | |
| **#** | **Description** | | |
| 1 | Project lead is added to project | | |
| 2 | System is displaying main screen | | |
| 3 | Users on project user list are notified of new project lead | | |
| **Candidate Objects** | | | |
| **Class/Object Name** | | **Descriptions** | **Possible**  **attributes** |
| Project | | Holds project information | Title, users, start/end date |
| User | | Holds user information | Name, projects, hours |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Assumptions** | | | | | |
| **#** | **Assumption** | **Date**  **Raised** | **Raised**  **By** | **Date**  **Verified** | **Verified By** |
| 1 | User can read/write English | 10/18/16 | Hurtado |  |  |
|  |  |  |  |  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Issues** | | | | | |
| **#** | **Issue** | **Date**  **Raised** | **Raised**  **By** | **Date**  **Verified** | **Verified By** |
|  |  |  |  |  |  |

|  |  |  |
| --- | --- | --- |
| **Other Comments** | | |
| **Author** | **Comment** | **Date** |
|  |  |  |

|  |
| --- |
| **Frequency of Execution** |
| **Frequency:**  Minimum: 0 Maximum: 127 Average: 5 (OR)Fixed:  **Per:** Hour:Day:  Week:  Month:  Other: |

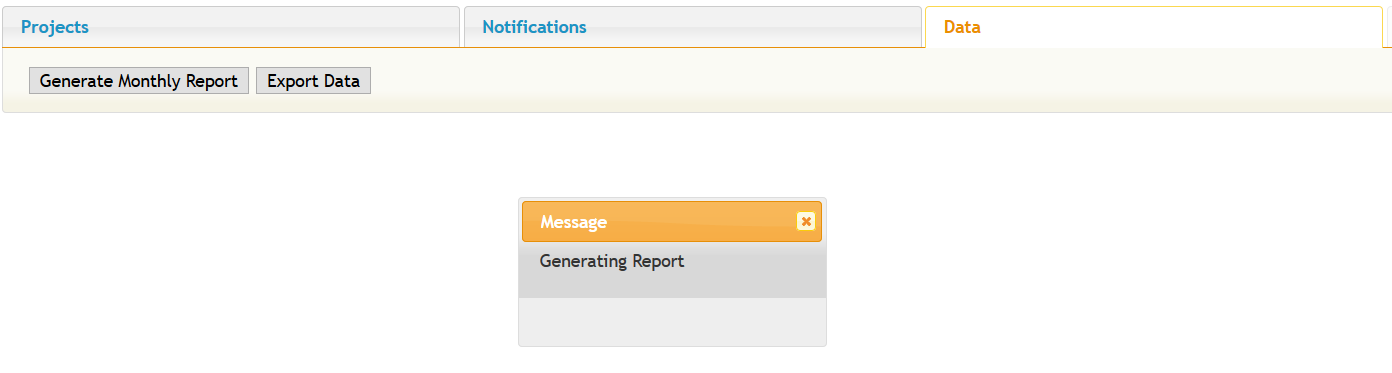
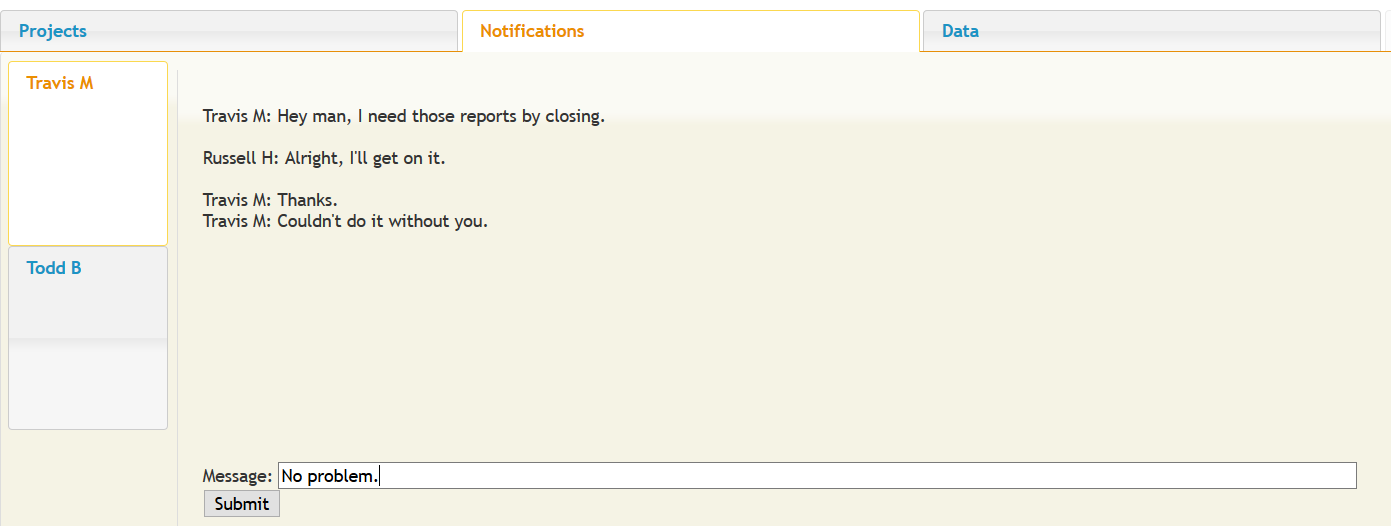
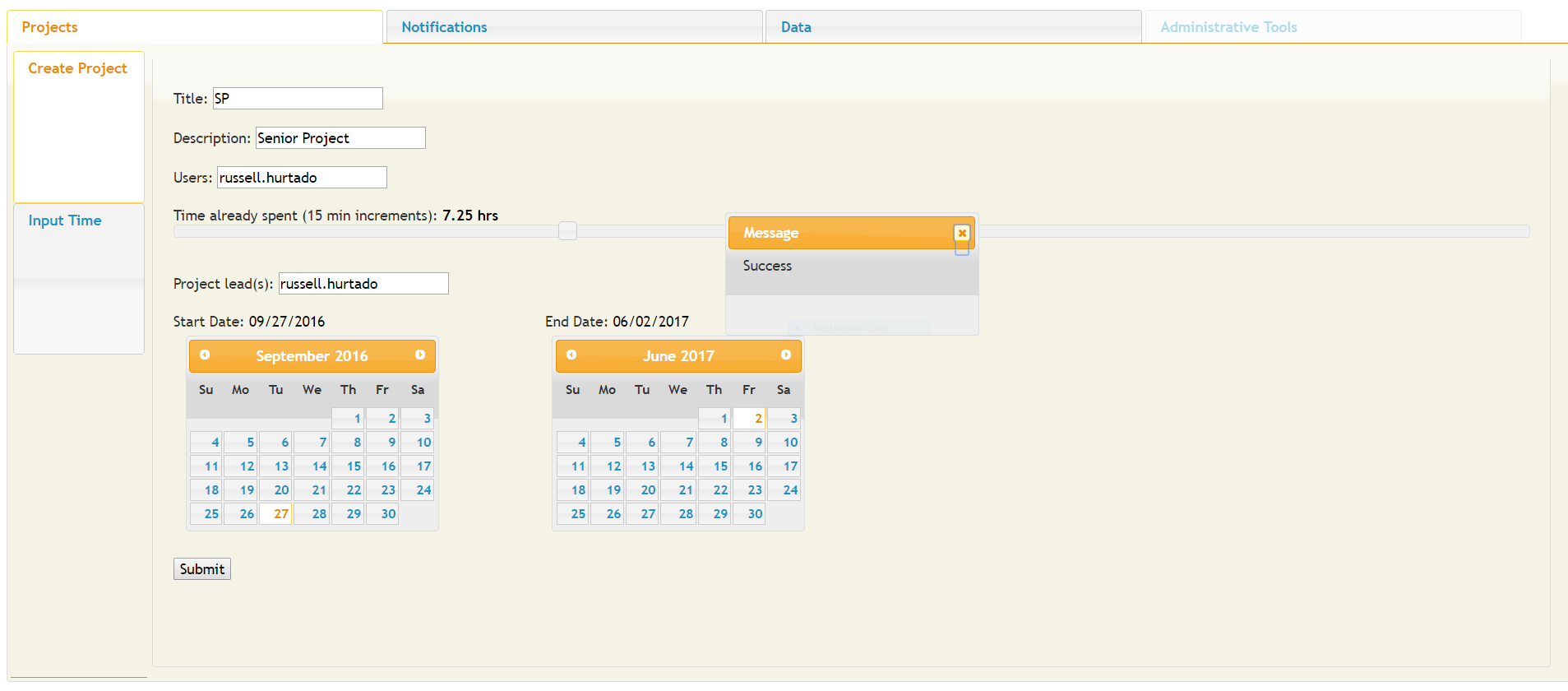
|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Timing Information** | | | | | | | |
| **#** | **At/**  **Between** | **Step(s)** | **Timing**  **Unit** | **Minimum** | **Average** | **Maximum** | **Comments** |
|  | N/A |  |  |  |  |  |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Volume Information** | | | | | | |
| **#** | **Step #** | **Unit of**  **Measure** | **Minimum** | **Average** | **Maximum** | **Comments** |
| 1 | 6 | Bytes | 10 | 20 | 100 | Project lead’s name and project title |
|  |  |  |  |  |  |  |

9 CRUD Matrix

|  |  |  |
| --- | --- | --- |
| Use Case ID | Use Case Name | Class Name |
| 01 | Create project |  |
| 02 | Input time |  |
| 03 | Generate report |  |
| 04 | Send notification |  |
| 05 | Export data |  |
| 06 | Access data |  |
| 07 | Add user |  |
| 08 | Remove user |  |
| 09 | Change user access |  |
| 10 | Assign project lead(s) |  |

10 Low fidelity UI



Appendix A

Business Rules

1) Time Input Increments

Time input will be in increments of 15 minutes.

2) Monthly Report Parameters

These parameters will include which month to generate for, which projects will be included, and whether the report will only include active projects.

3) User Privileges

Users will not have access to other user’s data, user addition, or user removal from project (unless project lead). Administrators will have access to everything.

4) Administrator Removal

Removal of administrators will require one other Administrator’s approval.