

Time Monitoring Tool User Interface Prototype

**Version <3.0>**

# Revision History

|  |  |  |  |
| --- | --- | --- | --- |
| **Date** | **Version** | **Description** | **Author** |
| **15/02/2001** | **01** | **First version** | **Sandra Lee** |
| **20/02/2001** | **02** | **Modifications applied as requested by lab attendant.** | **Sandra Lee** |
| **02/04/2001** | **03** | **Major updates of all GUI images.** | **James Prevost** |

**Preface**

The following case study has been modified from its original content. The case study is meant to be used as a starting point to help you understand how to use the artifact. Thus, information has been shrunk to avoid navigating an enormous document (in size and pages).

You can also refer to the related template (in HTML format or WORD format) in the UPEDU Artifacts Templates Requirements Section.

Regards,

Unified Process for Education Team

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# User Interface Prototype

## Introduction

* 1. **Purpose**

The User Interface Prototype document presents explicitly what the TMT user will see on the screen and how to use these different graphical interfaces. This document represents also, graphically, the model developed and detailed in the project’s documentation.

Moreover, this document can be used as a demonstration for future end-users in order to preview the final product.

* 1. **Scope**

The following roles use the user-interface prototype:

* **Analysts, to understand the user interface for a use case and how the user interface impacts the analysis of the system**
* **Designers, to understand how the user interface impacts and what it requires from the "inside" of the system**
* **Testers, to plan testing activities.**
* **Stakeholders as a preview of the interface they will use.**
  1. **Definitions, Acronyms, and Abbreviations**

Refer to the project’s Glossary. See References.

* 1. **References**
* **Glossary Document, Glossary, TMT Team 1, École Polytechnique de Montréal, 2001.**
* **[Course Web Page INF4302 :** [**http ://www.cours.polymtl.ca/inf4302/**](http://www.cours.polymtl.ca/if501/)
* **UPEDU :** [**http://www.upedu.org**](http://www.rgl.polymtl.ca/upedu/)
  1. **Overview**

This document is divided in three main sections: Identification interfaces, Developer Client- Module Interface and Manager Client-Module Interface. All sections contain graphical information about their related primary and secondary windows.

Further you will find a brief description on the different graphics standards used in the Time Monitoring Tool and an interface browsing hierarchy.

## Identification Interfaces

* 1. **Primary Windows**
     1. *<User Identification>*
        1. Purpose

When a user wishes to use the TMT, he has to identify himself with a username and password. The user identification window ensures that all fields (username and password) are filled correctly. The validation is made upon clicking the « Enter » button.

* + - 1. Objects and actions

|  |  |
| --- | --- |
| **Objects** | **Actions** |
| **Text Input – Username** | **Allows the user to type in his username** |
| **Text Input – Password** | **Allows the user to type in his password** |
| **Button – Enter** | **Launch the username/password validation query and grant the user access if provided information is validated. Otherwise redirects the user to an error page.** |
| **Button – Reset** | **Allows the user to erase the content of the two Text Input field described above** |

* + - 1. Composites

This window contains 5 frames (web frames):

* + - * + **Left Frame: Acts as a border frame, containing the gray background the left side.**
        + **Right Frame: Acts as a border frame, containing the gray background the right side.**
        + **Top Frame: Acts as a border frame, containing the gray background the top side.**
        + **Bottom Frame: Acts as a border frame, containing the gray background the bottom side.**
        + **Main Frame: Displays the information and action objects of the <*User Identification*> primary window**
      1. Visual Dimensions

**Position**

This window has the following attributes: *scrollable, movable* and all user-defined position properties of the browser used by the user (Standard web window)

**Size**

**This window has the following attributes: *minimizable, restorable, resizable, closeable* and all user-defined size properties of the browser used by the user (Standard web window)**

**Shape**

Standard web window (Rectangle).

**Color**

No specific color schemes defined.

* + - 1. Screenshot Sample

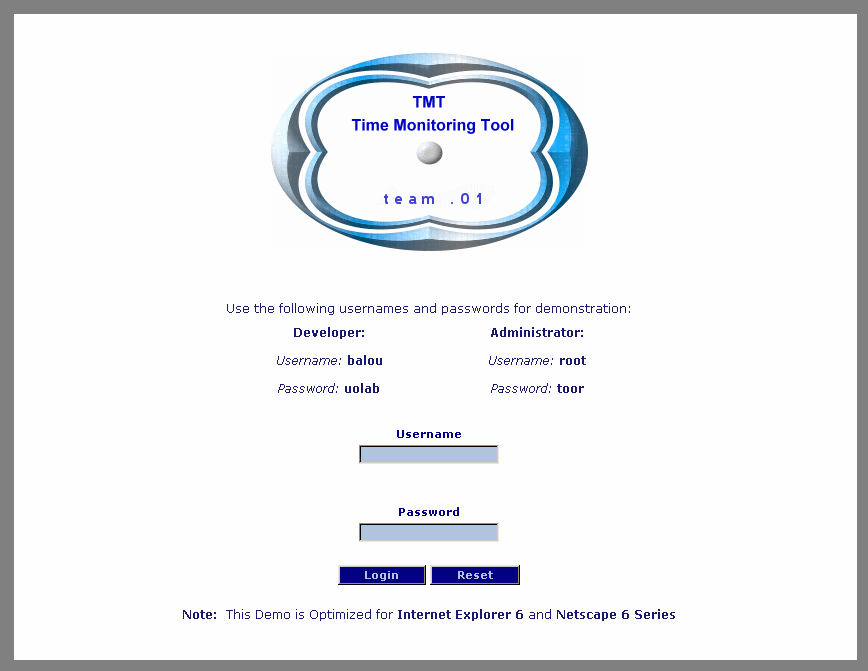


Figure 1: User Identification Interface

* 1. **Secondary Windows: Property Windows**

None.

* 1. **Secondary Windows: Other Windows**
     1. *<Wrong User Name>*
        1. Purpose

If the entered username doesn’t exist in the Database, the validation process redirects the user to a Wrong Username page.

* + - 1. Objects and actions

|  |  |
| --- | --- |
| **Objects** | **Actions** |
| **Hyperlink – Try Again** | **Allows the user to go back to the primary window and type in his username and password again** |

* + - 1. Composites

None

* + - 1. Visual Dimensions

**Position**

**This window has the following attributes: *floating (Top left of screen)***

**Size**

**This window has the following attributes: *minimizable, closeable***

**Shape**

Standard web window (Rectangle).

**Color**

No specific color schemes defined.



Figure 2: Wrong Username Interface

* + 1. *<Wrong Password>*
       1. Purpose

Once the username has been validated, if the entered password doesn’t match the username in the Database, the validation process redirects the user to a Wrong Password page.

* + - 1. Objects and actions

|  |  |
| --- | --- |
| **Objects** | **Actions** |
| **Hyperlink – Try Again** | **Allows the user to go back to the primary window and type in his username and password again** |

* + - 1. Composites

None

* + - 1. Visual Dimensions

**Position**

**This window has the following attributes: *floating (Top left of screen)***

**Size**

**This window has the following attributes: *minimizable, closeable***

**Shape**

Standard web window (Rectangle).

**Color**

No specific color schemes defined.

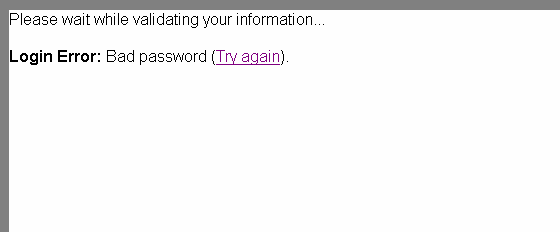


Figure 3: Wrong Password Interface

* + 1. *<Account Deactivated>*
       1. Purpose

Once the username and password have been validated, the user profile is deactivated; the validation process redirects the user to an Account Deactivated Page.

* + - 1. Objects and actions

|  |  |
| --- | --- |
| **Objects** | **Actions** |
| **Hyperlink – Back to Login Screen** | **Allows the user to go back to the primary window** |

* + - 1. Composites

None

* + - 1. Visual Dimensions

**Position**

**This window has the following attributes: *floating (Top left of screen)***

**Size**

**This window has the following attributes: *minimizable, closeable***

**Shape**

Standard web window (Rectangle).

**Color**

No specific color schemes defined.

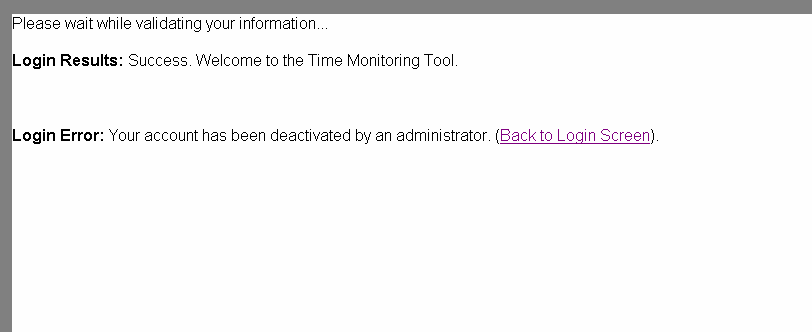


Figure 4: Account Deactivated Interface

## Developer Client-Module Interfaces

* 1. **Primary Windows**
     1. *<Developer Client module Main Screen>*
        1. Purpose

If the login step has been validated, a Developer gets the following interface. This is his main work screen where he can view, modify or add timestamps. Moreover, this primary window shows some timestamps statistics (Total hours stamped).

* + - 1. Objects and actions

|  |  |
| --- | --- |
| **Objects** | **Actions** |
| **Text Input – Username** | **Display only.** |
| **Text Input – Date/Time** | **Display only** |
| **Button – CheckAll Timestamps to resubmit (TR)** | **Enables all check boxes in the TR table.** |
| **Check Box – TR** | **Enables one row in the TR table** |
| **Text Input – Date TR** | **Date of submitted TR** |
| **Select Box – Project TR** | **Project of TR** |
| **Text Input – Start TR** | **Starting hour of TR** |
| **Text Input – End TR** | **Ending hour of TR** |
| **Text Input – Length TR** | **Length of TR** |
| **Select Box – Task TR** | **Task name TR** |
| **Select Box – Artifact TR** | **Artifact name TR** |
| **Select Box – Activity TR** | **Related activity name TR** |
| **Text Input – Description TR** | **Brief task description TR** |
| **Button - Resubmit timestamps** | **Allows the developer to re-submit his timestamp** |
| **Text Input – Date New Timestamp (NT)** | **Date of NT** |
| **JScript Button – Calendar NT** | **Pops up a calendar JavaScript Window allowing the developer to select a specific date instead of type manually the date in the timestamp date field.** |
| **Select Box – Project NT** | **Project of NT** |
| **Text Input – Start NT** | **Starting hour of NT** |
| **Text Input – End NT** | **Ending hour of NT** |

|  |  |
| --- | --- |
| **Text Input – Length NT** | **Length of NT** |
| **Select Box – Task NT** | **Task name NT** |
| **Select Box – Artifact NT** | **Artifact name NT** |
| **Select Box – Activity NT** | **Related activity name NT** |
| **Text Input – Description NT** | **Brief task description NT** |
| **Button – Submit NT** | **Allows the developer to submit his timestamp** |
| **Button – End session** | **Terminates the developer session and logs out** |
| **Button – View Stats** | **Shows the timestamps current week’s statistics** |

* + - 1. Composites

This window contains 5 frames (web frames):

* + - * + **Left Frame: Acts as a border frame, containing the gray background the left side.**
        + **Right Frame: Acts as a border frame, containing the gray background the right side.**
        + **Top Frame: Acts as a border frame, containing the gray background the top side.**
        + **Bottom Frame: Acts as a border frame, containing the gray background the bottom side.**
        + **Main Frame: Displays the information and action objects of the < *Developer Client module Main Screen* > primary window**

This window contains 2dynamic tables driven with JSP technology and static HTML table. Dynamic tables:

* + - * + ***Current week timestamps; Included* components are: indicator (non-validated and validated timestamps), date, project, starting hour, ending hour, length, task, artifact, activity and description. This is a read-only table.**
        + ***Timestamps to be re-submitted; Included* components are: CheckAll box, specific timestamp checkbox, date, project, starting hour, ending hour, length, task, artifact, activity and description.**

Static HTML table:

* + - * + ***New Timestamps to be submitted; Included* components are: date, JScript Calendar button, project, starting hour, ending hour, length, task, artifact, activity and description. This is a read-only table. There are a total of 5 rows in that table.**
      1. Visual Dimensions

**Position**

This window has the following attributes: *scrollable, movable* and all user-defined position properties of the browser used by the user (Standard web window)

**Size**

**This window has the following attributes: *minimizable, restorable, resizable, closeable* and all user-defined size properties of the browser used by the user (Standard web window)**

**Shape**

Standard web window (Rectangle).

**Color**

No specific color schemes defined.

* + - 1. Screenshot Sample

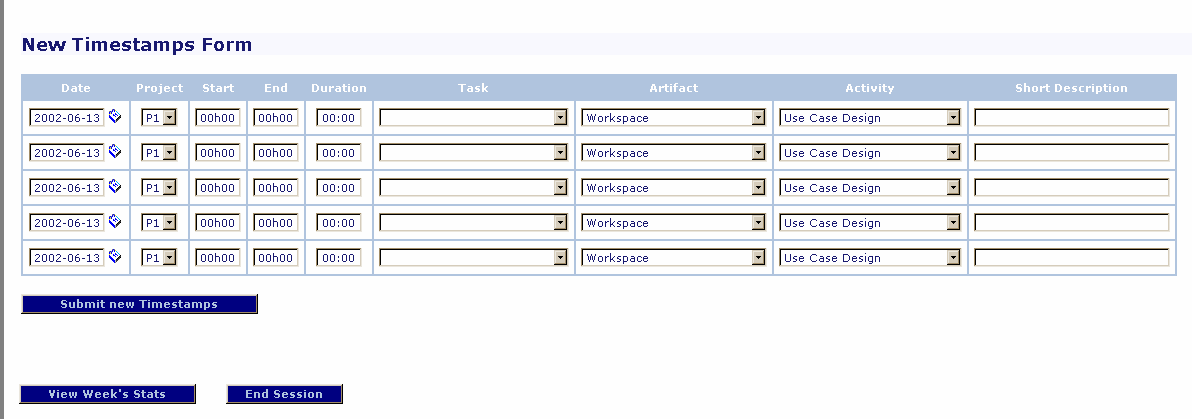
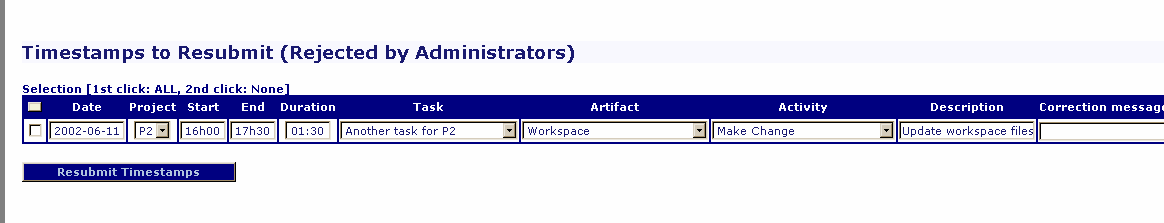
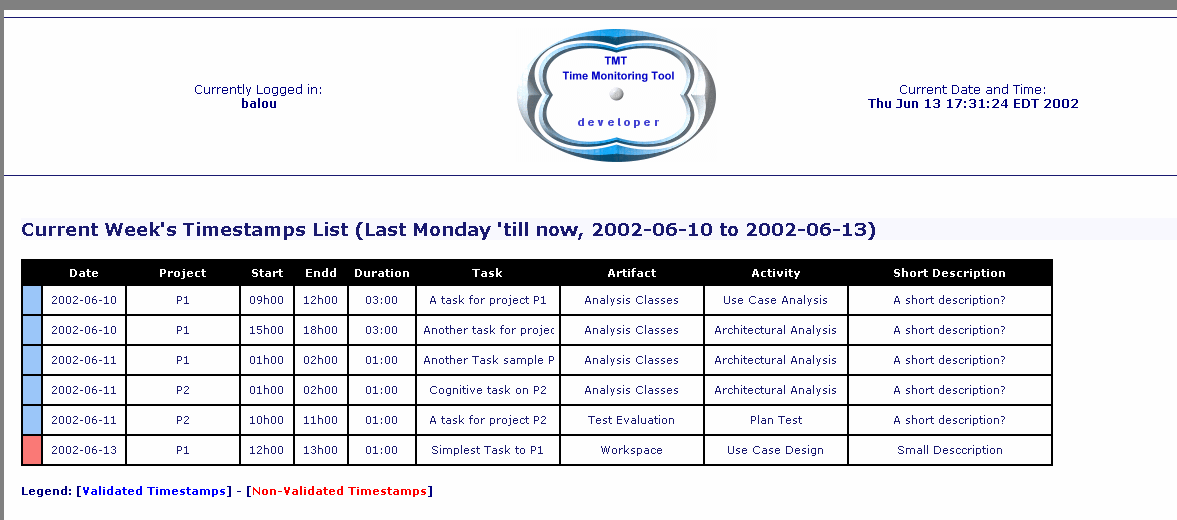


Figure 5: Developer Client module Main Screen Interface (3 main parts) - Timestamps

* 1. **Secondary Windows: Property Windows**

None.

* 1. **Secondary Windows: Other Windows**
     1. *<Timestamps Statistics>*
        1. Purpose

Shows weekly statistics for the current user. Timestamps durations are calculated by day, by project and by task.

* + - 1. Objects and actions

|  |  |
| --- | --- |
| **Objects** | **Actions** |
| **Button – Back to the DCM** | **Allows the user to go back to the primary window and view the DCM data** |

* + - 1. Composites

None

* + - 1. Visual Dimensions

**Position**

This window has the following attributes: *scrollable, movable* and all user-defined position properties of the browser used by the user (Standard web window)

**Size**

**This window has the following attributes: *minimizable, restorable, resizable, closeable* and all user-defined size properties of the browser used by the user (Standard web window)**

**Shape**

Standard web window (Rectangle).

**Color**

No specific color schemes defined.

|  |  |
| --- | --- |
| **TMT** | **Version: <3.0>** |
| **User Interface Prototype** | **Date: <02/04/2001>** |
| **upedu\_ex\_uiprt.doc** | |

* + - 1. Screenshot Sample

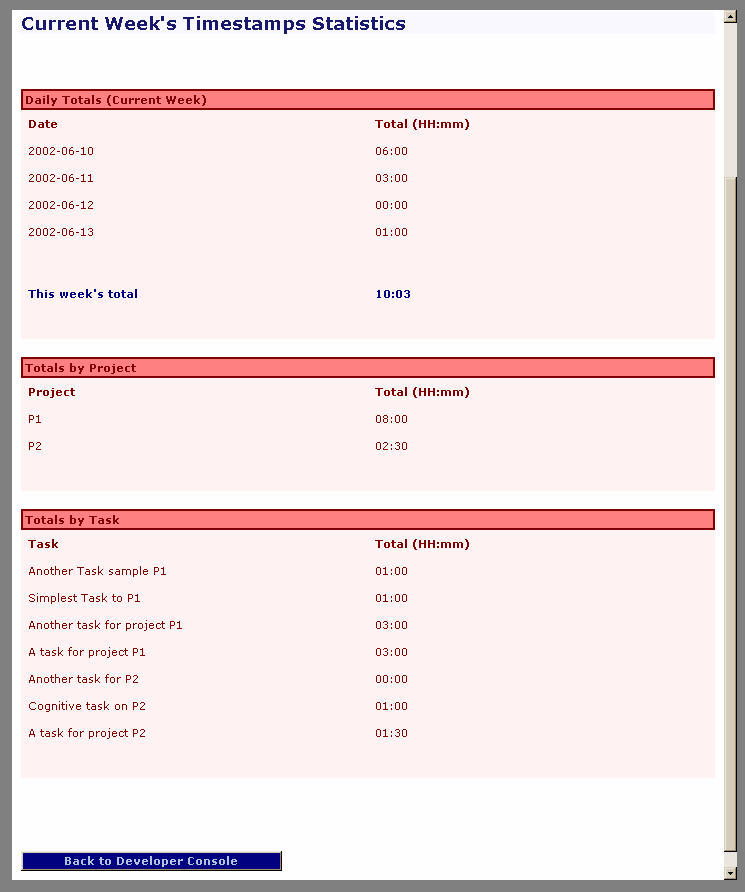


Figure 6: Timestamps Statistics Interface

## Manager Client-Module Interfaces

* 1. **Primary Windows**
     1. *<Manager Client-Module Main Screen>*
        1. Purpose

If the login step has been validated, a Manager gets the following interface. This is his main work screen where he can manage system users (Add, list, deactivate, modify, validate timestamps) or manage active projects (add project, add task, Export to MS-Excel, Export to MS-Project).

* + - 1. Objects and actions

|  |  |
| --- | --- |
| **Objects** | **Actions** |
| **Text Input – Username** | **Display only.** |
| **Text Input – Date/Time** | **Display only** |
| **JScript Object – Left Menu Option: Add user** | **Redirects the manager to the *Add a new user Secondary Window*** |
| **JScript Object – Left Menu Option: Validate timestamps** | **Redirects the manager to the *Validate New Timestamps Secondary Window*** |
| **JScript Object – Left Menu Option: List/Modify/Deactivate** | **Redirects the manager to the *List/Modify/Deactivate Secondary Window*** |
| **JScript Object – Right Menu Option: Add a project** | **Redirects the manager to the *Add a Project Secondary Window*** |
| **JScript Object – Right Menu Option: Add a task** | **Redirects the manager to the *Add a Task Secondary Window*** |
| **JScript Object – Right Menu Option: Export to MSEXCEL** | **Redirects the manager to the *Export to EXCEL Secondary Window*** |
| **JScript Object – Right Menu Option: Export to MSPROJECT** | **Redirects the manager to the *Export to MSPROJECT Secondary Window*** |

* + - 1. Composites

This window contains 5 frames (web frames):

* + - * + **Left Frame: Acts as a border frame, containing the gray background the left side.**
        + **Right Frame: Acts as a border frame, containing the gray background the right side.**
        + **Top Frame: Acts as a border frame, containing the gray background the top side.**
        + **Bottom Frame: Acts as a border frame, containing the gray background the bottom side.**
        + **Main Frame: Displays the information and action objects of the < *Manager Client- Module Main Screen* > primary window**

This window contains 2 JavaScript Menu Objects: The left menu has 3 submenu objects and the right menu has 4 submenu objects.

* + - 1. Visual Dimensions

**Position**

This window has the following attributes: *scrollable, movable* and all user-defined position properties of the browser used by the user (Standard web window)

**Size**

**This window has the following attributes: *minimizable, restorable, resizable, closeable* and all user-defined size properties of the browser used by the user (Standard web window)**

**Shape**

Standard web window (Rectangle).

**Color**

No specific color schemes defined.

* + - 1. Screenshot Sample

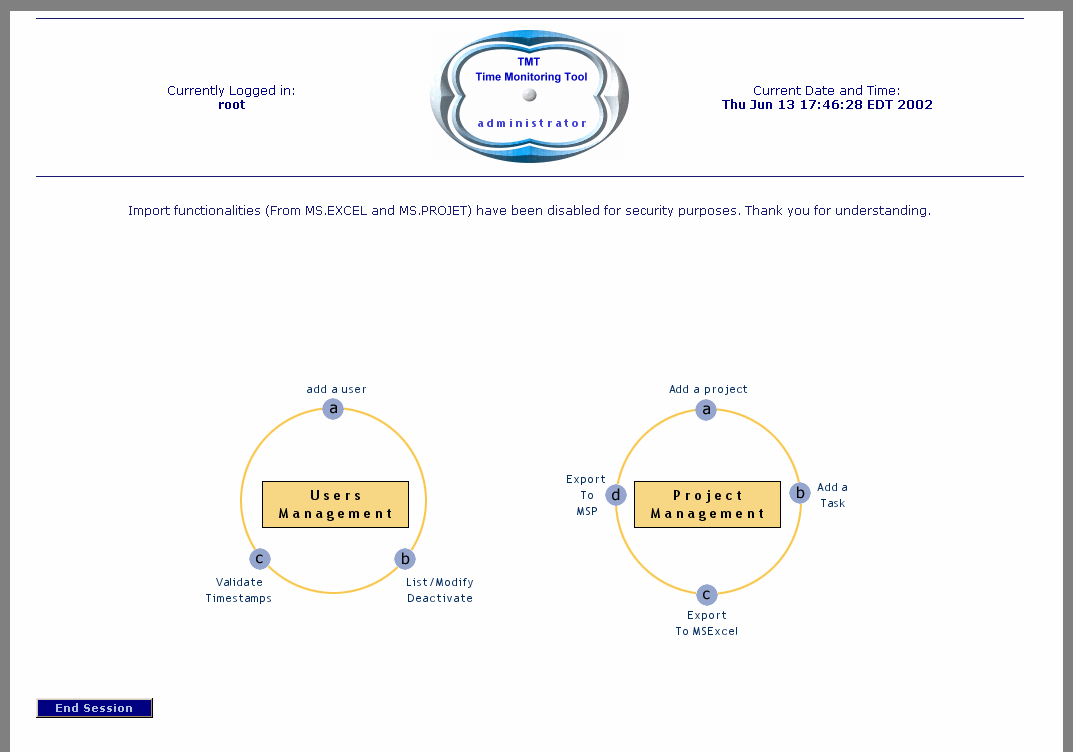


Figure 7: Manager Client-Module Main Screen Interface

* 1. **Secondary Windows: Property Windows**
     1. *<Add a new user>*
        1. Purpose

The Administrator can add users (developers) through this interface. Required fields are username, password, superior, and timestamps relative information. A submit button is use to activate the database INSERT query.

* + - 1. Objects and actions

|  |  |
| --- | --- |
| **Objects** | **Actions** |
| **Text Input – Username** | **Display only.** |
| **Text Input – Date/Time** | **Display only** |
| **Text Input – Username** | **Allows the manager to enter the developer’s name** |
| **Text Input – Password** | **Allows the manager to enter the developer’s password** |
| **Select Box – Superior** | **Allows the manager to select the developer’s superior** |
| **Radio Buttons – Status** | **Allows the manager to select if the new user is a developer or a manager** |
| **Multiple Select Box - Projects** | **Allows the manager to multiple-select projects for the developer** |
| **Select Box – Default Project** | **Allows the manager to select a default project for the developer** |
| **Select Box – Default Task** | **Allows the manager to select a default task for the developer** |
| **Select Box – Default Activity** | **Allows the manager to select a default activity for the developer** |
| **Select Box – Default Artifact** | **Allows the manager to select a default artifact for the developer** |
| **Button – Submit** | **Submits the form and performs the Database INSERT query** |
| **Button – Reset/Erase** | **Erases all fields in the form** |
| **Hyperlink – Back to MCM** | **Redirects the manager to the main screen (The menus)** |

* + - 1. Composites

This window contains 5 frames (web frames):

* + - * + **Left Frame: Acts as a border frame, containing the gray background the left side.**
        + **Right Frame: Acts as a border frame, containing the gray background the right side.**
        + **Top Frame: Acts as a border frame, containing the gray background the top side.**
        + **Bottom Frame: Acts as a border frame, containing the gray background the bottom side.**
        + **Main Frame: Displays the information and action objects of the <*User Identification*> primary window**

This window contains 1 static HTML table containing all fields object described in the previous section.

* + - 1. Visual Dimensions

**Position**

This window has the following attributes: *scrollable, movable* and all user-defined position properties of the browser used by the user (Standard web window)

**Size**

**This window has the following attributes: *minimizable, restorable, resizable, closeable* and all user-defined size properties of the browser used by the user (Standard web window)**

**Shape**

Standard web window (Rectangle).

**Color**

No specific color schemes defined.

* + - 1. Screenshot Sample

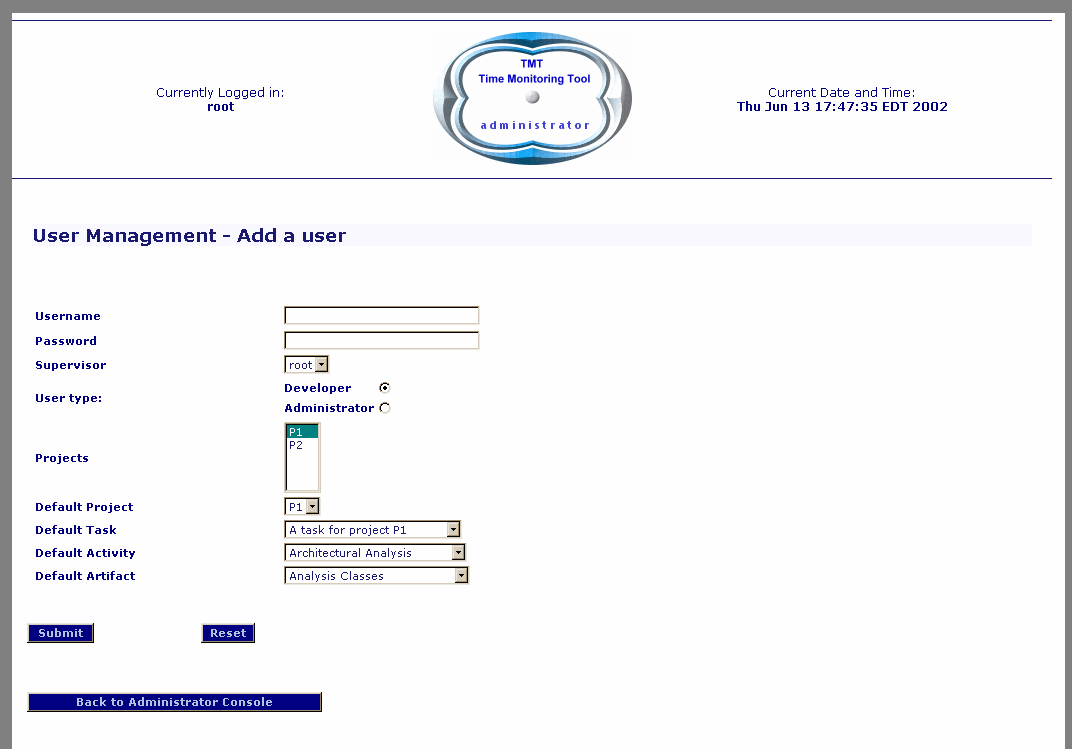


Figure 8: Add a new user

* + 1. *<Validate new timestamps>*

**[...]**

* 1. **Secondary Windows: Other Windows**

None

## Graphics Standards

All graphical interfaces and elements use HTML, DHTML and JavaScript web technologies interlaced with standard images formats (.GIF, .JPG, .PNG).

The color schemes may require a True Color Compatible graphical adapter and at least an 800x600 screen resolution. Best viewed at 1024x768 and over.

Al fonts used are in the Helvetica and Arial font-family.

All graphical interfaces are best viewed in Internet Explorer 5+ and Netscape Navigator 4.79+

## Other Standards

The TMT logo used has been designed by TMT Team 4 and supervised by member John Lemon.

If any special colors are used for a specific purpose, the explanation can be found on the web page itself (Legend or note)

## Browsing Hierarchy

The following is a window hierarchy diagram showing how the different windows are linked together.

**Identification Interfaces**

**User Identification**

Account Deactivated

W rong Password

**Developer Client-Module Interfaces**

**Manager Client-Module Interfaces**

**Developer Client-Module Main Screen**

**Manager Client-Module Main Screen**

Timestamps Statistics

Add a task

Export to EXCEL

Export to MSPROJECT

List/Modify/Desactivate

Validate new timestamps

Add a project

Add a new user

Wrong Username

Figure 9: Graphical Interfaces Hierarchy