

MBASE Deliverables Manager

User Manual (UM)

TEAM 21

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Version Control

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4/14/2000	Dincel	Updating for CTS	1.0
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1 Purpose

The purpose of this document is to teach and guide the user how to use the product, i.e the steps for running the software, describes the expected output, and describes the measures to be taken if errors occur.

The audience of this manual is both project users and the admin users. The functionality provided to them are separated by a simple notation explained in Section 5.

1.1 System Overview

The purpose of this system is to handle the automated management of the artifacts that are produced by various cs577 projects. This manual applies to MDM that resides on the CSE machine.

1.2 System Requirements

1.2.1 Hardware

Server machine

- Pentium class machine
- 25 Gigabyte hard drive
- 128 Megabyte of RAM
- CD ROM Drive (installation only)
- VGA display and adapter
- Internet connection (reliable)

Client machine

- Pentium class machine
- 32 Megabytes of RAM
- VGA display and adapter
- Internet connection (reliable)

1.2.2 Software

- ODBC Extension for Win32 Perl
- MS Access 97
- PERL MOD BUILT-IN APACHE: This is a self-extracting archive of binary versions of perl5.005_03, mod_perl-1.21, mod_ssl (2.4.9) /OpenSSL (0.9.4) and Apache_1.3.9, built for Windows 95/98/NT under VC++ 6 (SP3) . It includes the ActiveState patches of build 522 applied against the perl sources. It also includes some popular noncore module packages such libnet, libwww-perl, Tk, and DBI.
- Clearcase: Rational Clearcase Release 4.0 for Windows NT.

2 Operational Procedures

This section describes the functions available to the users and the step by step procedures for accessing those functions. If there is a star (*) near the functionality, it represents only admin users. If there are two stars (**) near the functionality, it represents project managers. Otherwise, it represents the functionality provided to project users.

2.1 Login

- Go to MDM initial page, press “Login” button (Figure 1)
- On Login Window, type username and password , press “View Project List” button (Figure 2)
- If login is successful, Project List window is displayed with the list of the projects that the user belongs to (Figure 3)
If login is unsuccessful, Login Error window is displayed (refer to Section 4)

2.2 Logout

- Press “Logout” button if the that button is available in the window you are working on (Figure 3, Figure 5, Figure 6, etc..)
- The message “You are successfully logged out” is displayed

2.3 Modify User Password

- On Project List Window, press “Modify User Password” button (Figure 3)
- On Modify User Password Window, modify the password field, press “Action Modify User Password” button (Figure 4)

2.4 Add Folder

- On Project List Window, click on the project name to which you want to add a new folder (Figure 3)
- On Project View Window, press the appropriate icon near “Actions:” section (Figure 5)
- On Add Folder Window, type the folder name in the “Folder Name” area and any comments you want to write about that folder to the “Comment” area , press “Create Folder” button (Figure 6)
- If there is no existing folder with that name, Project View Window is displayed with the newly added folder information (Figure 5)
If there already exists such a folder, Add Folder Error Window is displayed (refer to Section 4)

2.5 Add Artifact

- On Project List Window, click on the project name to which you want to add a new artifact (Figure 3)
- On Project View Window, press the appropriate icon near “Actions:” section (Figure 5)
- On Add Artifact Window, type the artifact filename like the way you would like that file to be viewed in the “Artifact Filename” area, choose the artifact type from the “Artifact Type” menu area, type any description you want to write about that artifact to the “Artifact Description” area, type the file name to be loaded to the “File to Upload” area (if you don’t exactly remember the location, press “Browse” button to guide you to fill this area), press “Upload File” button (Figure 9)
- If there is no existing artifact with the name specified, Project View Window is displayed with the newly added artifact information (Figure 5)
If there already exists such an artifact, Add Artifact Error Window is displayed (refer to Section 4)

2.6 View Artifact Detail

- On Project List Window, click on the project name where the artifact resides (Figure 3)
- On Project List Window, Navigate through folders by pressing on the folder name icon under “Directory:” section, continue this step till the artifact name is seen under “Directory:” section and below “Name” column, press the icon which is titled as the artifact you want to view the details of below “Name” column (Figure 4)
- On Artifact Detail Window, the details of the artifact are displayed (Figure 11)

2.7 Delete Artifact

- On Project View Window, find the artifact name under “Name” column, press Delete icon near “Actions” section (Figure 5)
- Confirm the action by pressing “OK” button on the dialog box
- On Project View Window, the artifact name should not be below “Name” column anymore (Figure 5)

2.8 Check in Artifact

- On Project View Window, find the artifact name under “Name” column, press Check-in icon near “Actions” section (Figure 5)
- On Checkin Artifact Window, type any description you want to write about that artifact to the “Artifact Description” area, type the file name to be loaded to the “File to

Upload” area (if you don’t exactly remember the location, press “Browse” button to guide you to fill this area) (Figure 12)

- On Checkin Artifact Window, press “Upload File” button (Figure 12)

2.9 Check Out Artifact

- On Project View Window, find the artifact name under “Name” column, press Check-out icon near “Actions” section (Figure 5)
- On File Download Window, choose “Save this file to disk”, press “OK” button
- On Save As Window, type the filename of that artifact, press “OK” button

2.10 Uncheck Out Artifact

- On Project View Window, find the artifact name under “Name” column, press Uncheck-out icon near “Actions” section (Figure 5)

2.11 View Artifact

- On Project View Window, find the artifact name under “Name” column, press View icon near “Actions” section (Figure 5)
- On File Download Window, choose “Save this file to disk”, press “OK” button
- On Save As Window, choose the location, filename, type of that file, press “OK” button

2.12 Add User to Project()**

- On Project View Window, press the “Project Administration” button (Figure 5)
- On Project Administration Window, press the appropriate icon near “Actions” section (Figure 14)
- On Add User to Project Window, press the “add” icon that is near the user you want to add (Figure 15)
- On Project Administration Window, the added user is displayed (Figure 14)

2.13 Remove User From Project()**

- On Project View Window, press the “Project Administration” button (Figure 5)
- On Project Administration Window, press “Remove” icon that is near the user to be removed (Figure 14)
- Confirm the action by pressing “OK” button on the dialog box
- On Project Administration Window, the user name is not displayed anymore (Figure 14)

2.14 Modify Access Rights of User()**

- On Project View Window, press the “Project Administration” button (Figure 5)
- On Project Administration Window, press the appropriate icon that is near “Actions” section (Figure 14)
- On Project Administration Window, the user rights are modified from Full Access to Read Only or from Read Only to Full Access (Figure 14)

2.15 View Project Log()**

- On Project View Window, press the “Project Administration” button (Figure 5)
- On Project Administration Window, press the appropriate icon near “Actions” section (Figure 14)
- On Project Log Window, project log information is displayed (Figure 16)

2.16 Add Project (*)

- On Project List Window, press “Global Administration” icon (Figure 19)
- On Global Administration Window, press “Add Project” icon (Figure 17)
- On Add Project Window, type the project name to the “Project Name” area, type project number to “Project Number” area, type description you want to write about that project to the “Project Description” area, type team number to “Team Number” area, choose the Term Id from the menu near the “Term Id”, choose the Project Manager from the menu near the “Project Manager” area, choose the class id from the menu near the “Class Id” area, and finally choose the project template from the menu near the “Project Template to copy” area, press “Action Add Project” button (Figure 18)
- If there is no existing project with that name, Project List Window is displayed with the newly added project information (Figure 19)
If there already exists such a project, Add Project Error Window is displayed (refer to Section 4)

2.17 Add System User (*)

- On Project List Window, press “Global Administration” icon (Figure 19)
- On Global Administration Window, press the “System Users” icon (Figure 17)
- On System Users Window, press the appropriate icon near “Actions” section under System Users column (Figure 20)
- On Add User Window, type username in “User Name” area, type first name in “First Name” area, type “Last Name” in “Last Name” area, type SSN in “SSN” area, choose whether s/he is user or admin from the menu near the “Role” area, choose

whether s/he is active or not from the menu near the “Active” area, press “Create System User” button (Figure 21)

- If there is no existing system user with that name, System Users Window is displayed with the newly added system user information (Figure 20)
If there already exists such a system user, Add System Error Window is displayed (refer to Section 4)

2.18 Remove System User (*)

- On Project List Window, press “Global Administration” icon (Figure 19)
- On Global Administration Window, press the “System Users” icon (Figure 17)
- On System Users Window, press the appropriate icon near “Actions” section under List of System Users column (Figure 20)
- Confirm the action by pressing “OK” button on the dialog box
- On System Users Window, the system user name is no longer available (Figure 20)

2.19 Modify System User Profile (*)

- On Project List Window, press “Global Administration” icon (Figure 19)
- On Global Administration Window, press the “System Users” icon (Figure 17)
- On System Users Window, press the appropriate icon near “Actions” section under List of System Users column (Figure 20)
- On Modify User Window, make necessary changes, press “Action Modify System User” button (Figure 23)

2.20 Add Project Template (*)

- On Project List Window, press “Global Administration” icon (Figure 19)
- On Global Administration Window, press the “Project Templates” icon (Figure 17)
- On Project Templates Window, press the appropriate icon near “Actions” name (Figure 24)
- On Add Project Template Window, type in the project template name to the “Project template name” area and the description about the template in the “Description” area , press “Action Add Project Template” button (Figure 25)
- If there is no existing project template with that name, Project Template List Window is displayed with the newly added project information (Figure 24)
If there already exists such a project template, Add Project Template Error Window is displayed (refer to Section 4)

2.21 View Project Template (*)

- On Project List Window, press “Global Administration” icon (Figure 19)
- On Global Administration Window, press the “Project Templates” icon (Figure 17)

- On Project Templates Window, press the appropriate icon near the “Actions” section (Figure 24)
- On Template View Window, the chosen project template is displayed (Figure 26)

2.22 View Administrator Log (*)

- On Project List Window, press “Global Administration” icon (Figure 19)
- On Global Administration Window, press the “View Administrator Log” icon (Figure 17)
- On View Admin Log Window, administrator log information is displayed (Figure 27)

2.23 Clear Project Log(*)

- On Project List Window, press the appropriate icon under Project List column (Figure 19)

2.24 View Milestones (*)

- On Project List Window, press “Global Administration” icon (Figure 19)
- On Global Administration Window, press the “View Milestones” icon (Figure 17)
- View Milestones Window is displayed (Figure 28)

2.25 Modify Milestones (*)

- On Project List Window, press “Global Administration” icon (Figure 19)
- On Global Administration Window, press the “View Milestones” icon (Figure 17)
- On View Milestones Window, click in the milestone name near the “Milestone” area (Figure 28)
- On Modify Milestones Window, make necessary changes, press “Action Modify Milestone” button (Figure 29)

2.26 Add Milestones (*)

- On Project List Window, press “Global Administration” icon (Figure 19)
- On Global Administration Window, press the “View Milestones” icon (Figure 17)

- On View Milestones Window, press the appropriate icon near “Actions” section (Figure 28)
- On Add Milestone Window, type the name of the milestone to the “Name” area, the abbreviation to the “Abbreviation” area and choose the state from the menu near the “State” area, press “Action Add Milestone” button (Figure 31)
- If there is no existing milestone with that name, View Milestones Window is displayed with the newly added milestone information (Figure 28)
If there already exists such a milestone, Add Milestone Error Window is displayed (refer to Section 4)

2.27 Aggregation(*)

- On Project List Window, press “Global Administration” icon (Figure 19)
- On Global Administration Window, press the “Aggregation” icon (Figure 17)
- On Aggregation Window, choose the project name, artifact type name, milestone name, user name, term and class number from the appropriate menu (Figure 33)
- On Aggregation Window, press “Aggregate Data” button (Figure 33)
- On Aggregation Results Window, the result of your query is displayed (Figure 34)

2.28 View Artifact Types(*)

- On Project List Window, press “Global Administration” icon (Figure 19)
- On Global Administration Window, press the “Artifact Type View” icon (Figure 17)
- Artifact Type View Window is displayed (Figure 35)

2.29 Modify Artifact Types (*)

- On Project List Window, press “Global Administration” icon (Figure 19)
- On Global Administration Window, press the “Artifact Type View” icon (Figure 17)
- On Artifact Type View Window, click in the artifact type name near the “Artifact Type” area (Figure 35)
- On Modify Artifact Type Window, make necessary changes, press “Action Modify Artifact Type” button (Figure 36)

2.30 Add Artifact Types(*)

- On Project List Window, press “Global Administration” icon (Figure 19)
- On Global Administration Window, press the “Artifact Type View” icon (Figure 17)
- On Artifact Type View Window, press the appropriate icon near “Actions” section (Figure 35)

- On Add Artifact Type Window, type the name of the artifact to the “Artifact Type Name” area, the format validator name to the “Validator Script” area, the line counter program to “Line Counter Script” area and choose the state from the menu near the “State” area, press “Action Add Artifact Type” button (Figure 37)
- If there is no existing milestone with that name, Artifact Type View Window is displayed with the newly added artifact type information (Figure 35)
If there already exists such a milestone, Add Artifact Type Error Window is displayed (refer to Section 4)

2.31 View Term Ids(*)

- On Project List Window, press “Global Administration” icon (Figure 19)
- On Global Administration Window, press the “View Term IDs” icon (Figure 17)
- View Term Ids Window is displayed (Figure 38)

2.32 Add Term Ids(*)

- On Project List Window, press “Global Administration” icon (Figure 19)
- On Global Administration Window, press the “View Term IDs” icon (Figure 17)
- On View Term IDs Window, press the appropriate icon near “Actions” section (Figure 38)
- On Add Term ID Window, type the name of the term to the “Name” area, press “Action Add Term” button (Figure 39)
- If there is no existing term with that name, View Term ID Window is displayed with the newly added term information (Figure 38)
If there already exists such a term, Add Term Error Window is displayed (refer to Section 4)

2.33 View Class Ids(*)

- On Project List Window, press “Global Administration” icon (Figure 19)
- On Global Administration Window, press the “View Class IDs” icon (Figure 17)
- View Class Ids Window is displayed (Figure 40)

2.34 Add Class Ids(*)

- On Project List Window, press “Global Administration” icon (Figure 19)
- On Global Administration Window, press the “View Class IDs” icon (Figure 17)

- On View Class IDs Window, press the appropriate icon near “Actions” section (Figure 40)
- On Add Class ID Window, type the name of the term to the “Name” area, press “Action Add Class” button (Figure 41)
- If there is no existing term with that name, View Class ID Window is displayed with the newly added class information (Figure 40)
If there already exists such a class, Add Class Error Window is displayed (refer to Section 4)



Figure 1- MDM Initial Page

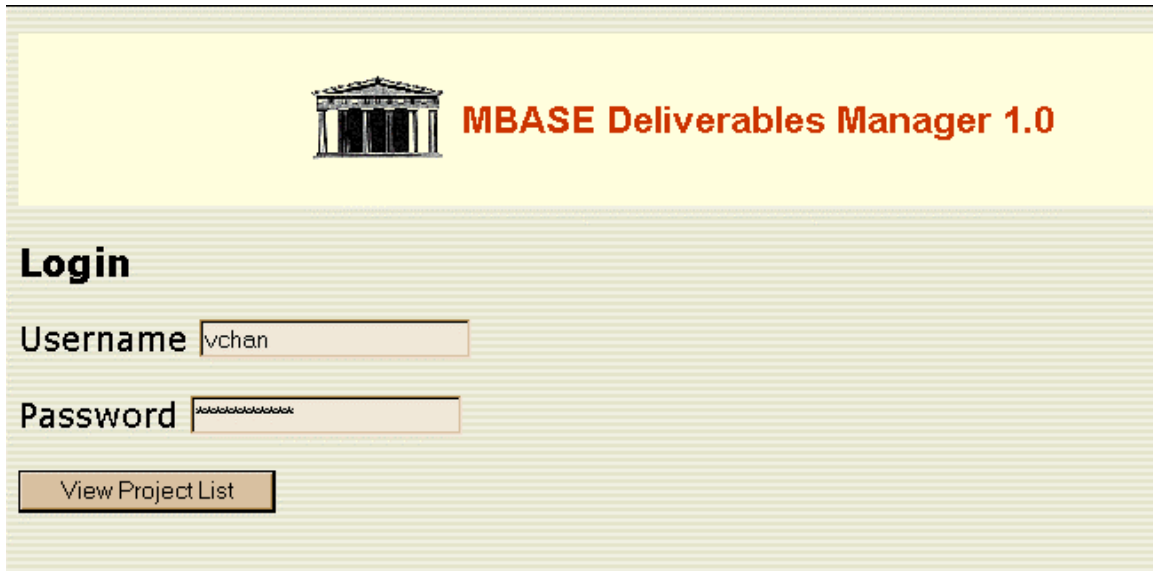


Figure 2- Login Window



Figure 3- Project List Window

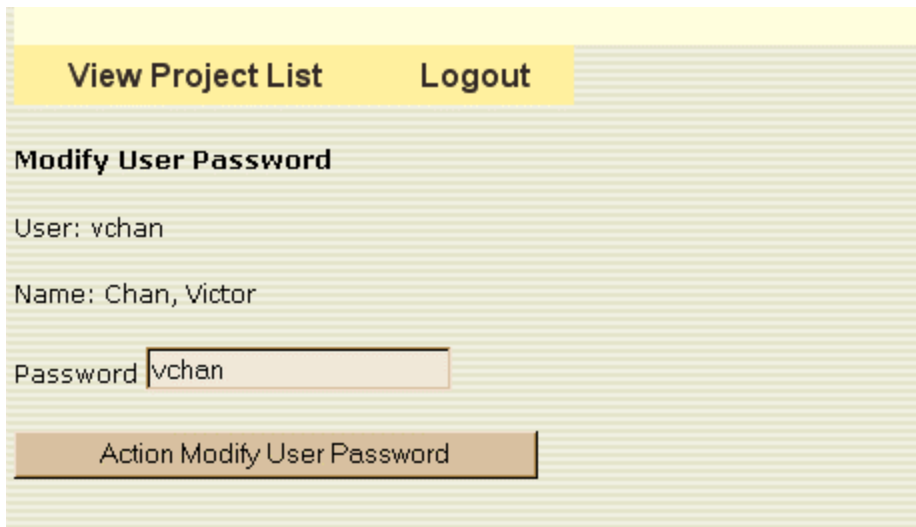


Figure 4- Modify User Password Window

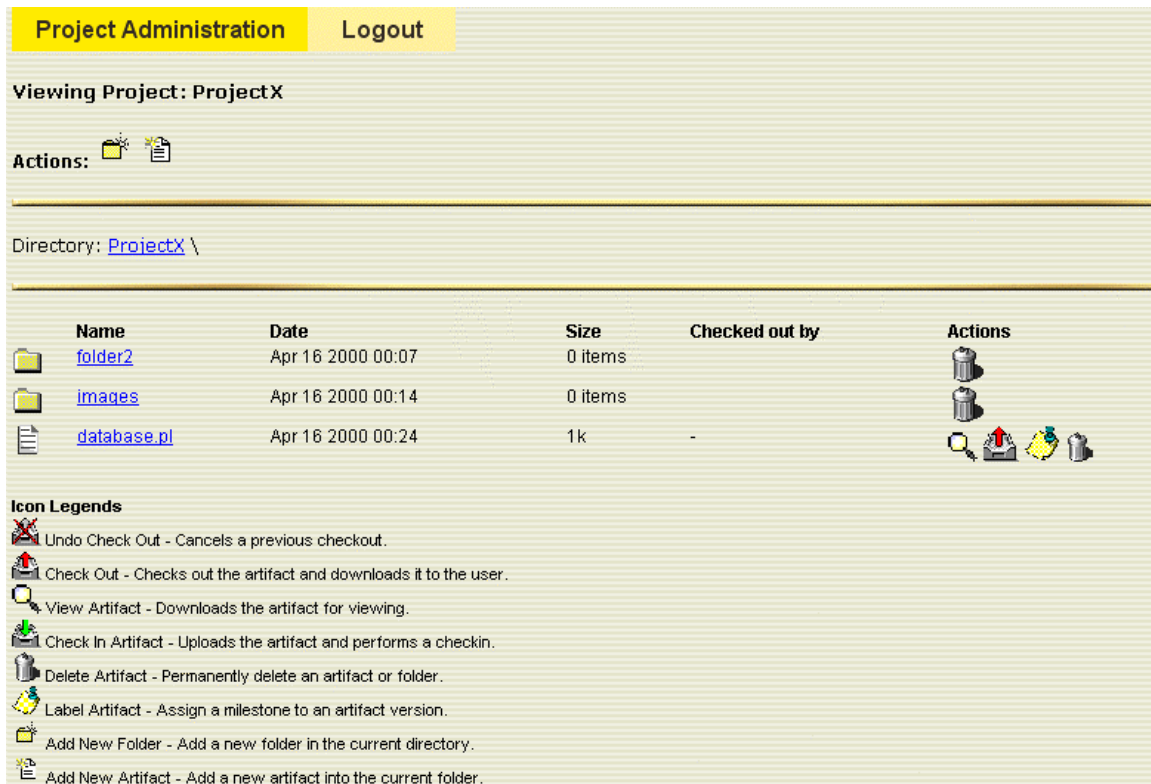


Figure 5- Project View Window

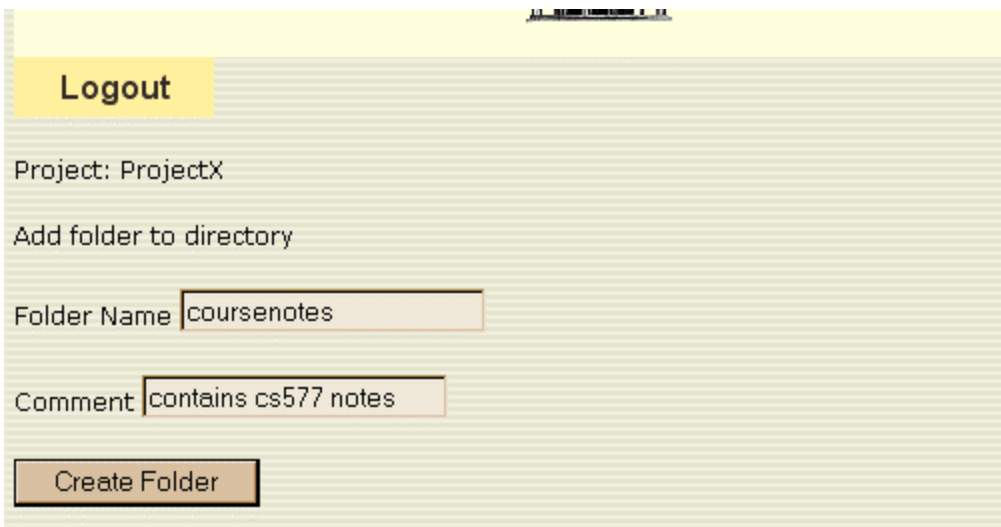


Figure 6- Add Folder Window

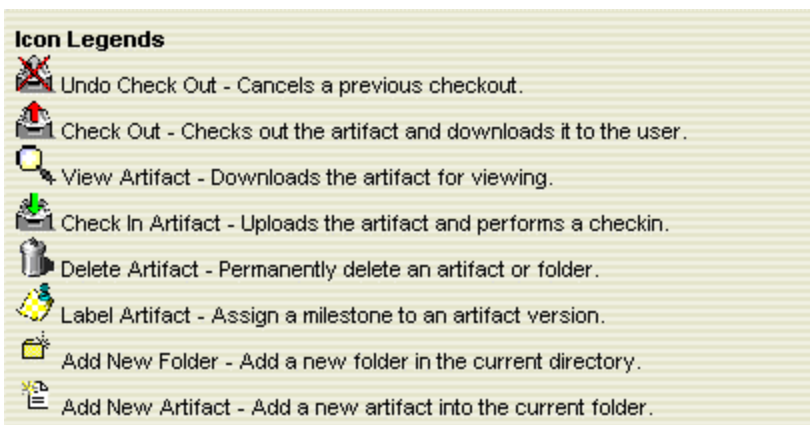


Figure 7- Icon Legends

Logout

Adding Artifact To Project: ProjectX

Add artifact to directory

Artifact Filename

Artifact Type

Artifact Description

File to upload

Figure 9- Add Artifact Window




Project Administration **Logout**

Artifact Detail

Project: ProjectX

Directory: [ProjectX \](#)

Versions:

Ver.	Date	Size	Comments	Labels	Actions
 1	Apr 27 2000 19:56	1k	perl code to test		 

Icon Legends

Figure 11- Artifact Detail Window

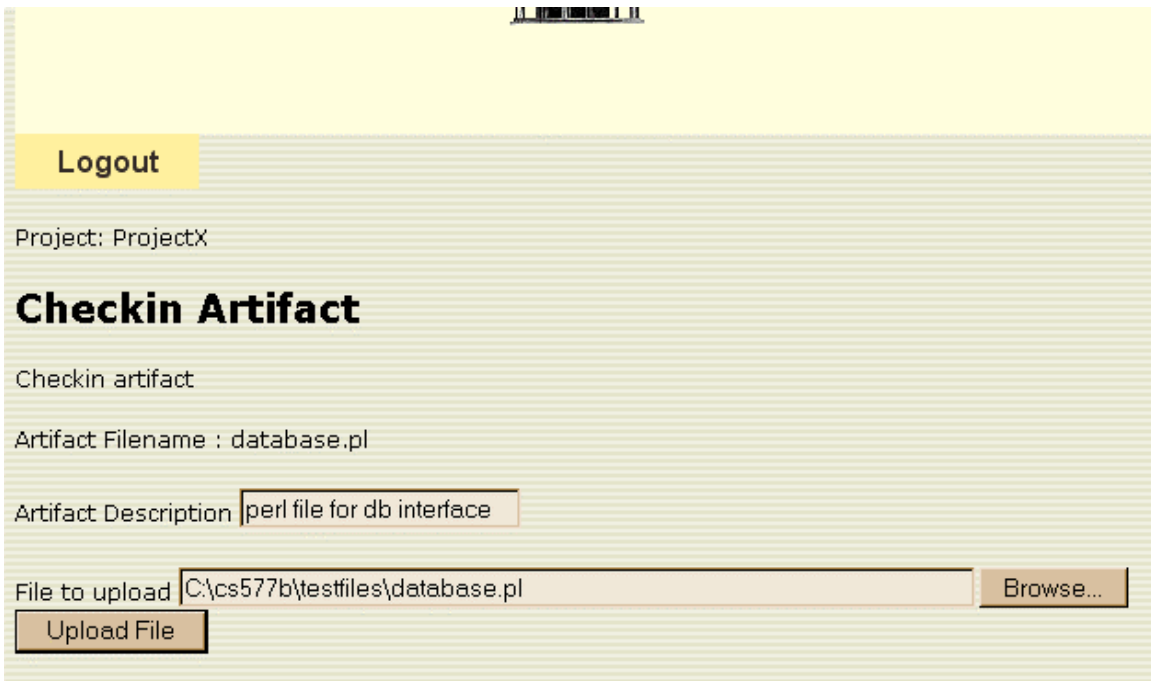


Figure 12 – Check in Artifact

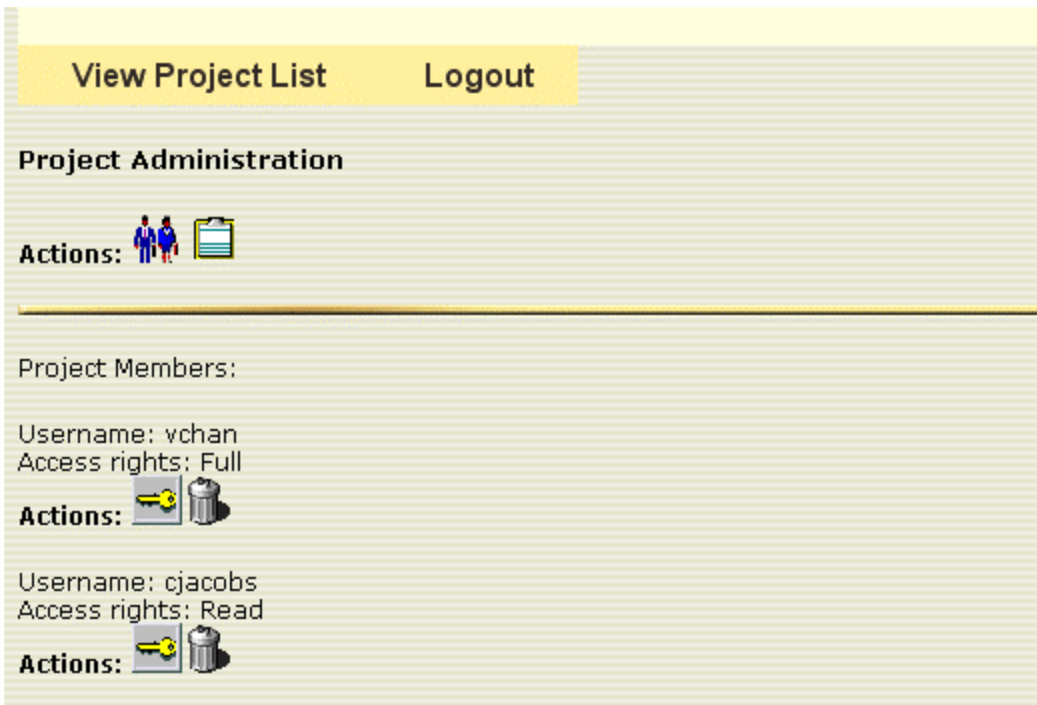


Figure 14 – Project Administration



Figure 15- Add User to Project Window

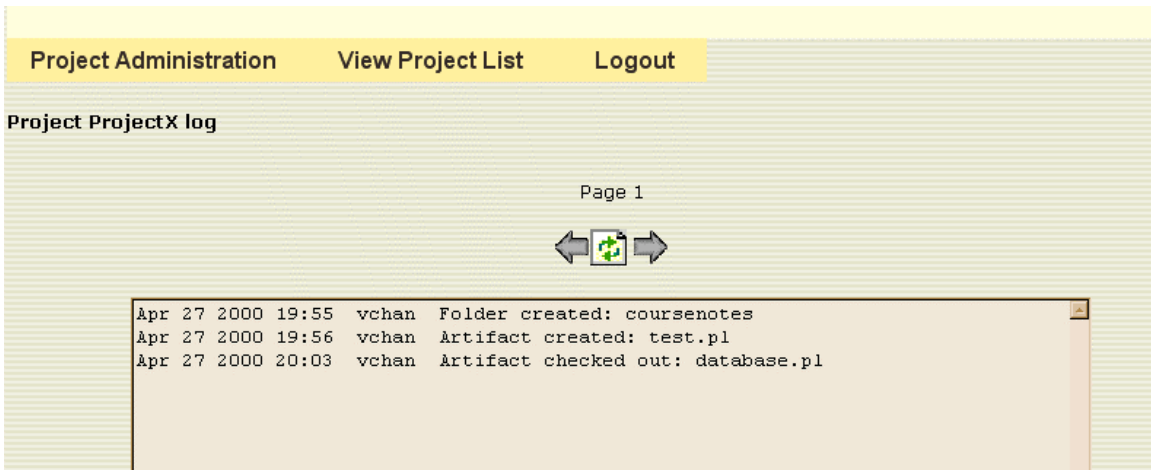


Figure 16- View Log Window



Figure 17- Global Administration Window

Global Administration **Logout**

Add Project

Project Name

Project Number

Description

Team Number

Term Id

Project Manager

Class Id

Project Template to copy

Figure 18- Add Project Window

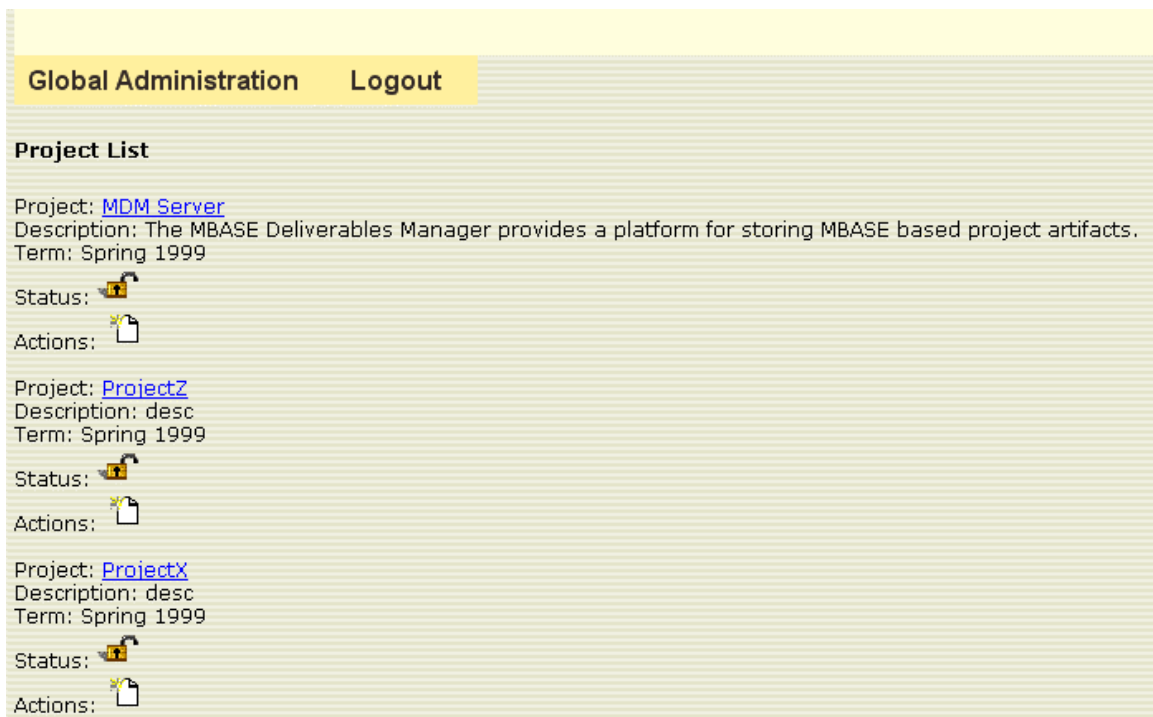


Figure 19- Project List Window(Admin)



Figure 20- System Users Window

Global Administration **Logout**

Add User

UserName

First Name

Last Name

SSN

Role

Active

Figure 21- Add User Window

The screenshot shows a web interface for modifying a system user. At the top, there is a yellow navigation bar with 'Global Administration' and 'Logout' links. Below this, the page title is 'Modify System User'. The form contains the following fields:

- UserName: sam
- Password: sam
- First Name: samuel
- Last Name: black
- Role: User (dropdown menu)
- Active: Yes (dropdown menu)

At the bottom of the form is a button labeled 'Action Modify System User'.

Figure 23- Modify User Window



Figure 24- Project Template Window

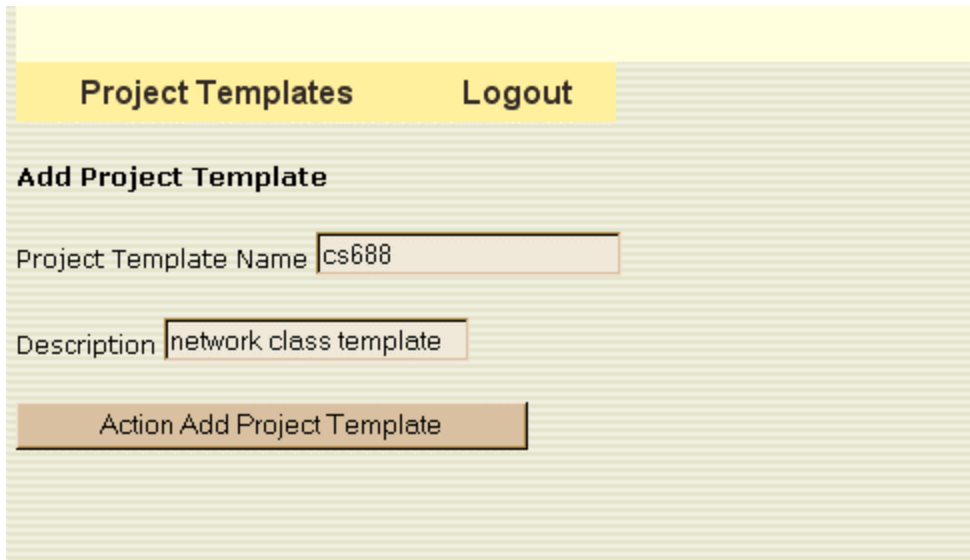


Figure 25- Add Project Template Window



Figure 26- Template View Window

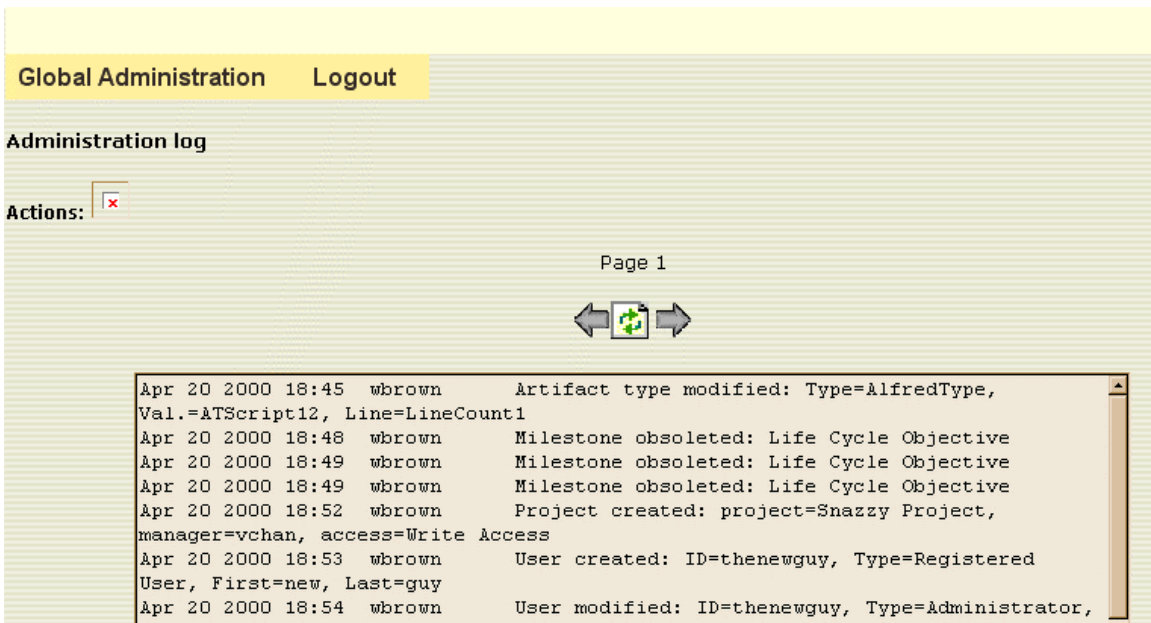


Figure 27- View Admin Log Window

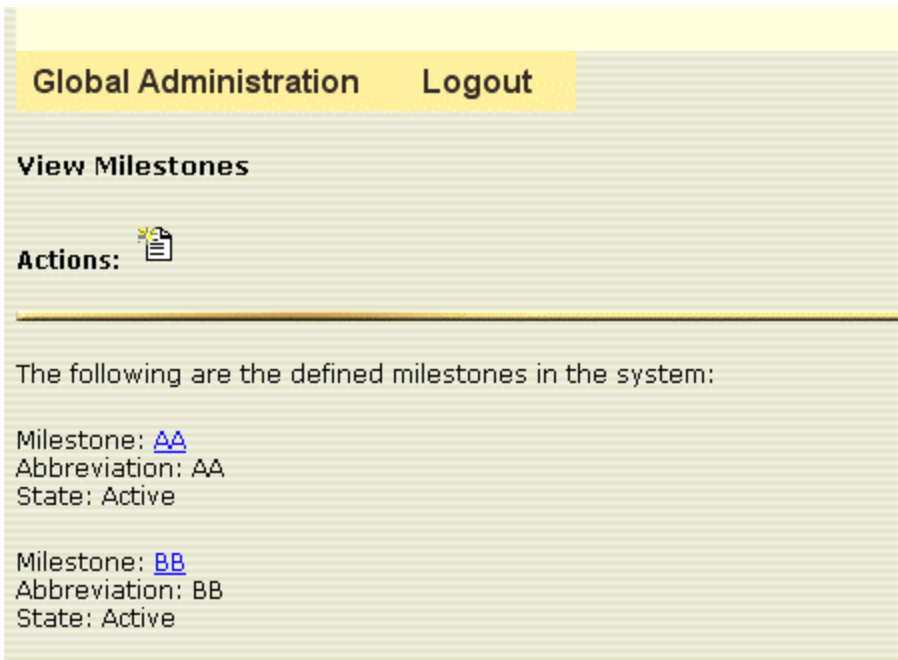


Figure 28- View Milestones Window

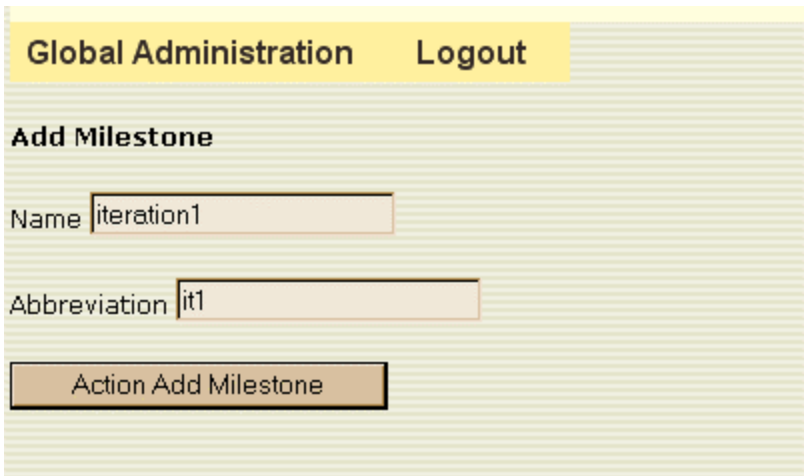


Figure 29- Modify Milestones Window

Global Administration Logout

Add Milestone

Name

Abbreviation

Action Add Milestone

Figure 31- Add Milestones Window

Aggregation

Projects

- CSCI577A Template
- CS578
- MDM Server
- finito
- CS578

Artifact Types

- Executable Binary
- Word Document
- Text Document
- Perl Source Code
- C++ Source Code

Milestone List

- : AA
- : BB

User List

- sam
- edincel
- snazzy_user

Figure 33- Aggregate Data Window


Items in hash = 0

Name	Project	Path	Labels	Actions

Figure 34- Aggregation Results Window

Global Administration Logout

Artifact Type View

Actions: 

The following are the defined artifact types in the system:

Artifact Type: [HTML Document](#)
 Validator script: new HTML validator1
 Line Counter script: new HTML sloc
 State: Inactive

Artifact Type: [AlfredType](#)
 Validator script: ATScript12
 Line Counter script: LineCount1
 State: Active

Artifact Type: [Executable Binary](#)
 Validator script: Validator1
 Line Counter script: SLOC1
 State: Inactive

Figure 35- Artifact Type View Window

Global Administration Logout

Modify Artifact Type

Artifact Type Name = HTML Document

Validator Script

Line Counter Script

State

Action Modify Artifact Type

Figure 36- Modify Artifact Type View Window

Global Administration Logout

Add Artifact Type

Artifact Type Name

Validator Script

Line Counter Script

State

Action Add Artifact Type

Figure 37- Add Artifact Type View Window

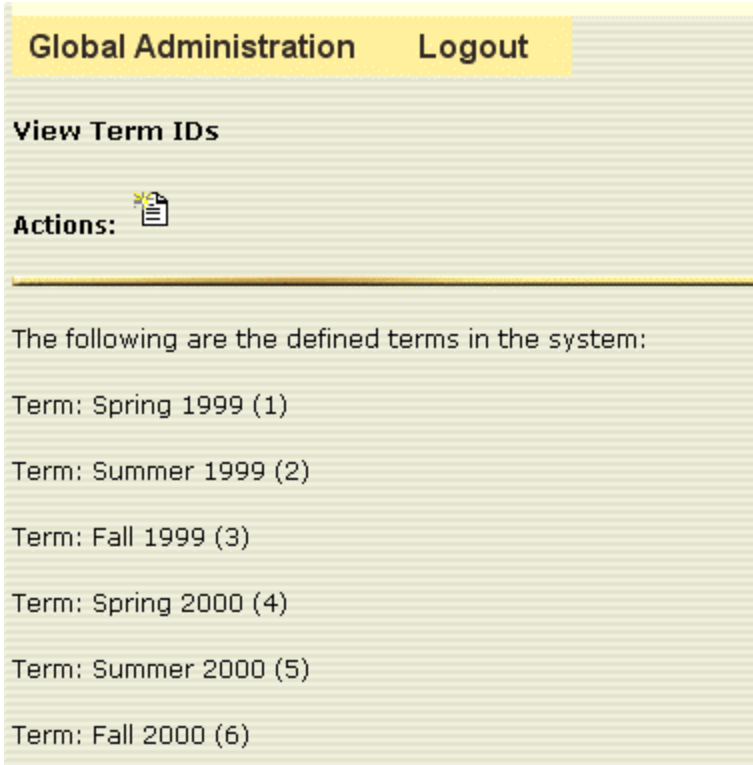


Figure 38- View TermId Window

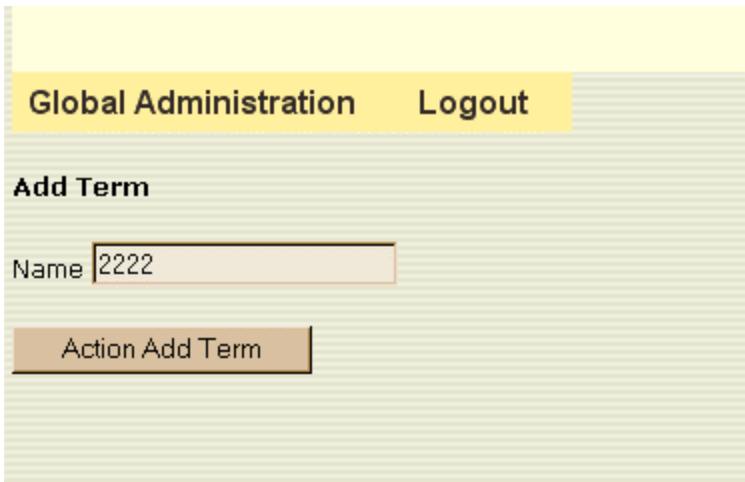


Figure 39- Add TermId Window

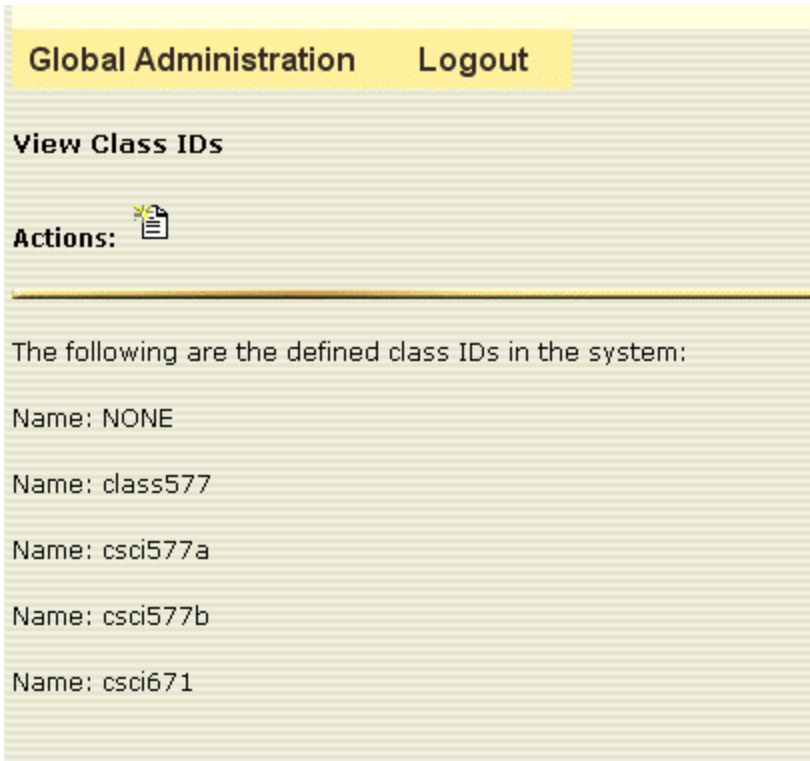


Figure 40- View ClassId Window

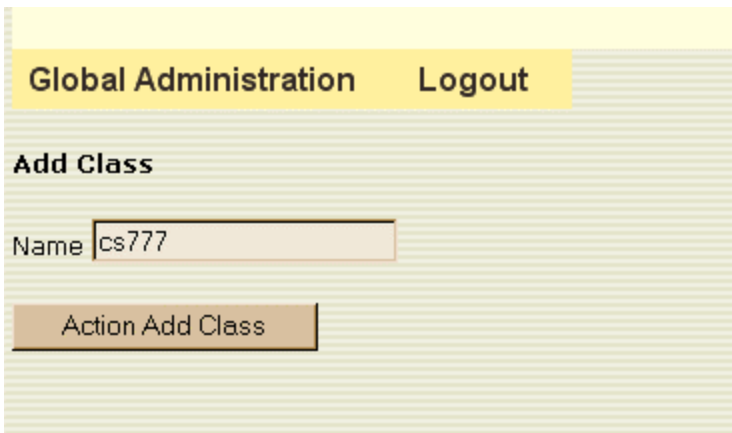


Figure 41- Add ClassId Window

3 Troubleshooting

3.1 Frequently Asked Questions

- Q: What is checking an artifact?
 - A: Putting a version of that artifact into the repository
- Q: What is checking out an artifact?
 - A: Getting the latest version of an artifact from the repository
- Q: What if sth goes wrong?
 - A: Try getting logout, and login again
- Q: What if the session times out error shows?
 - A: Try to login again
- Q: How do I login/logout?
 - A: Refer to User Manual 2.1 & 2.2
- Q: How do I change user password?
 - A: Refer to User Manual 2.3
- Q: How do I add folder to my project view? A: Refer to User Manual 2.4
- Q: How do I add artifact to my project? A: Refer to User Manual 2.5
- Q: How do I view the details of an artifact, like size, status, etc..? A: Refer to User Manual 2.6
- Q: How do I delete an artifact from my project view? A: Refer to User Manual 2.7
- Q: How do I check in an artifact? A: Refer to User Manual 2.8
- Q: How do I check out an artifact? A: Refer to User Manual 2.9
- Q: How do I uncheck out an artifact? A: Refer to User Manual 2.10
- Q: How do I view contents of artifact? A: Refer to User Manual 2.11
- Q: How do I add new team member to my project? A: Refer to User Manual 2.12
- Q: How do I remove a team member from my project? A: Refer to User Manual 2.13
- Q: How do I change the access rights of a team member? A: Refer to User Manual 2.14
- Q: How do I view project log? A: Refer to User Manual 2.15
- Q: How do I add a new project? A: Refer to User Manual 2.16
- Q: How do I add a system user profile? A: Refer to User Manual 2.17
- Q: How do I modify a system user profile? A: Refer to User Manual 2.18
- Q: How do I delete a system user profile? A: Refer to User Manual 2.19
- Q: How do I create a new project template ? A: Refer to User Manual 2.20
- Q: How do I view an existing project template information? A: Refer to User Manual 2.21
- Q: How do I view admin log? A: Refer to User Manual 2.22
- Q: How do I clear project log? A: Refer to User Manual 2.23
- Q: How do I view a milestone information? A: Refer to User Manual 2.24
- Q: How do I modify an existing milestone information? A: Refer to User Manual 2.25

- Q: How do I create a new milestone ? A: Refer to User Manual 2.26
- Q: How can I aggregate project data with some specific search criteria? A: Refer to User Manual 2.27
- Q: How do I view/modify/add artifact type information? A: Refer to User Manual 2.28 & 2.29 & 2.30
- Q: How do I view/modify term id information? A: Refer to User Manual 2.31 & 2.32
- Q: How do I view/modify class id information? A: Refer to User Manual 2.33 & 2.34

3.2 Error Codes and Messages

The error messages can be classified into 3 categories. Logging failure if username and password does not match the user information in the database. Adding failure if user tries to add something that already exists in the system. Session failure: If you exceed the time allocated for a session.

* Login ERROR: Logging failed. Invalid User Id or Password. Please retry logging in again.

Session ERROR: Session timed out

* Add Folder ERROR: Directory create for OCD was not successful. Please select back toolbar icon and retry operation or logout.

* Add Artifact ERROR: No File uploaded. Please select back toolbar icon and retry operation or logout.

* Add Project ERROR: Creating project. Return value = 12. Please select back toolbar icon and retry operation or logout.

* Add System User ERROR: Error adding system user profile. Please select back toolbar icon and retry operation or logout.

* Add Project Template ERROR: Creating project. Return value = 12. Please select back toolbar icon and retry operation or logout.

* Add Milestone ERROR: adding milestone. Please select back toolbar icon and retry operation or logout.

* Add Artifact Type ERROR: adding artifact type. Please select back toolbar icon and retry operation or logout.

* Add Term ERROR: adding term. Please select back toolbar icon and retry operation or logout.

* Add Class ERROR: adding class. Please select back toolbar icon and retry operation or logout.

4 Notes

If there is a star (*) near the functionality, it represents only admin users.

If there are two stars (**) near the functionality, it represents project managers.

Otherwise, it represents the functionality provided to both project users and the admin users.

Below are some of the abbreviations used:

CI= checkin

CO= checkout

UNCO=uncheckout

DEL=delete

MDM= MBASE Deliverables Manager

ADMIN= administrator

For full set of icon legends, refer to Figure 7, which describes the meaning of various icons.

If you need more clarification, please contact to the person specified below.

Contact Information: Ebru Dincel (edincel@usc.edu)

SAL 317, (213) 740-6502

6 Appendix

For more detailed information, refer to Installation Procedures 2.0 .

If you need more clarification, please contact to the person specified below.

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