D&D Software
DProject
Project Management System

Test Plan and Specifications

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1. OVERVIEW

1.1 Introduction

This document presents the testing plan and specifications for the project management software DProject, developed by D&D Software group. The project involves a web based project management environment, developed using Java Server Pages and Java Servlet technology. Following are listed some of the main features of DProject:

- Creating new projects for a company
- Creating new users/workers for a company
- Creating new tasks within projects
- Assigning tasks to workers within the company
- Keeping track of the work done on assigned tasks and presenting facilities for the review of them
- Arranging meetings within a company using a polling system
- Supplying facilities for managing resources in a project, and keeping track of the project budget
- Supplying notification, scheduling and messaging mechanisms between users

1.2 Scope

This document presents all the aspects of our testing procedure. First, a presentation of the responsibilities of the team members will be given with respect to the testing phase; also the resources used for the testing will be described. Second, our test strategy will be explained, giving the reasons why we adopt some testing strategies while we do not adopt others. Third, the defect/bug reporting and removal procedure will be presented. And lastly, the actual test scenarios that will be carried out will be given with sufficient formalism that will enable anyone to carry out the tests even if he had not been a part of the development of the software.

1.3 Purpose

The aim of this document is to ensure that our product satisfies all the functional and design requirements that were laid out in previous reports, by specifying a solid and effective testing strategy, and test plan. Given the small amount of time and human resources we have, this report aims to maximize the benefit we can get from the testing phase.

1.4 Test Criteria Overview

Our test phase will encompass the following modules and features of DProject:

Project Management

- Creating new projects
- Updating project information
- Deleting projects
- Assigning workers to new projects
- Specifying certain phases and task types for projects
- Viewing the progress of a project
- Buying resources for the project

User Management

- Creating new users
- Updating user information
- Deleting users
- Estimating the workload of users so that tasks are assigned appropriately
- Keeping track of the working hours of workers and generating reports accordingly

Task Management

- Creating new tasks under projects
- Updating task information
- Deleting tasks
- Assigning tasks to users as assigned or reviewer
- Keeping track of the hours that is spent on a task and generating reports accordingly
- Specifying resources for the task
- Attaching new files to the meeting
- Download of task files
- Deletion of attached files
- Changing status of task files from in use/free to free/in use.
- Addition of new notes to tasks
- Update of task notes
- Deletion of task notes

Meeting Management

- Arranging new meetings
- Updating meeting information
- Deleting meetings
- Specifying time options for a meeting
- Giving priorities to the time options specified for a meeting by the meeting arranger

- Automatic decision (or conflict decision) of the system for the meeting time
- Assigning users as attendants to the meeting
- Re-arrangement decision of a meeting when there is a conflict between user preferences
- Attaching new files to the meeting
- Download of meeting files
- Deletion of attached files
- Changing status of meeting files from in use/free to free/in use.
- Addition of new notes to meetings
- Update of meeting notes
- Deletion of meeting notes

Notification & Messaging

- Automatic generation of a notification when a task is assigned to a user
- Automatic generation of a notification when a user is assigned to a meeting as an attendant and has to make preferences among time options
- Automatic generation of a notification when a task/project deadline has come
- Automatic generation of a notification when a meeting day has come
- Keeping track of read/unread notifications
- Direct forwarding from the notifications page to the relevant task/meeting/project page

Calendar Management

- Automatic insertion of assigned task deadlines to user calendar
- Automatic insertion of meetings to user calendar
- Automatic insertion of project deadlines to user calendar
- Manual insertion of calendar items to the calendar
- Update of calendar items
- Deletion of calendar items

Client Management

- Creation of new clients
- Update of client information
- Deletion of clients
- Assignation of projects to clients
- Limited access of clients to project information

Resource Management

- Creation of Resource Types at the company level
- Update of resource types
- Deletion of resource types
- Disallowing deletion of a currently used resource type
- Assignation of a certain quantity of a resource type to a project

- Assignation of a certain quantity of a resource type to a task

Listings and Filtering

- Listing of projects, tasks, users, meetings, resources, notifications and all other items in corresponding pages
- Appropriate filtering of the listings using the specified filters in the corresponding pages

1.5 Evaluation Criteria

The outcomes of each test will be compared to the pre-defined expected outcomes, as documented in the fifth section of this document. The results are reported in '*Test Result Document*'s, and bugs are reported as described in the fourth section of this document.

2 Testing Resources

2.1 Human Resources

Each team member will take part in the testing process. Every one will be assigned a specific module, and will be responsible for conducting the tests. After detecting the defects, a team member (possibly different than the tester) will be assigned to remove the defect/bug by the test manager. Our test manager is Mehmet Remzi Dogar. He's responsible of keeping track of the test process, and delivering responsibilities within this process.

The specific modules and the team members that will conduct the tests for this module are specified in the 'Test Scenario Document's in fifth section of this document. The team member who is responsible for carrying out the specific test is indicated with the field name *tester*.

2.2 Deliverables

The deliverables that we will output in the test phase are listed and explained below:

- Test Scenario Documents: These documents will describe the tests that will be carried out for DProject. These documents constitute the fifth section of this document. The *Test Scenario Document*s are marked with a unique id to identify them.

- Test Result Documents: For each *Test Scenario Document* a *Test Result Document* will be filled by the tester after carrying out the test. The *Test Result Document*s are not used for bug reporting, but used as a means for keeping track of which tests are done, by whom, when and they serve as a source of detailed information about the bug, after the bug is reported in the *Bug Report*. The *Test Result Document*s are marked with the id of the corresponding *Test Scenario Document.* Actually the *Test Result Document*s are created by filling the empty fields in the *Test Scenario Document*s which are listed in the fifth section of this document.
- Bug Report: *Bug Report* is a single file, which is used for reporting the bugs found during the testing process. It is composed of rows, where for a single bug a single row is filled. Here is an example row from the *Bug Report*:

Test Scenario Id	Report Date	Reported by	Brief Description	Assigned to	Severity	Urgency	Fixed Date
Meeting-5	May 7th, 2005	Dogan	The 'save' button does not work	Firat	Medium	Medium	May 15th, 2005

The first four fields will be filled by the tester who found the bug, the *Assigned to, Severity* and *Urgency* fields will be filled by the *Test Manager* and the *Fixed Date* field will be filled by the team member who removed the bug.

2.3 Repository

The repositories for the *Test Scenario Document*s, *Test Report Document*s, and the *Bug Report* will be our department CVS system. All these documents will be checked-out and checked-in as needed.

2.4 System Resources

We will not use a specialized testing tool (such as JUnit), since we do not have the enough time, and resources to learn the usage of the tool band incorporate it to our project. So, in the testing process we will use our IDE Netbeans. For inspection of our database, to ensure that the SQL queries and updates work correctly, we will use MySQL Control Center. As a CVS management system we will use GNU WinCVS. As an editor we will primarily use TextPad. So, we can list the software we will use in the testing phase as follows:

- Netbeans IDE
- MySQL Control Center
- GNU WinCVS
- TextPad

3 Test Strategy & Approach

Considering the limited amount of time and human resources we have, preparing a test strategy, which does not overestimate our resources, but which also ensures the proper execution of our tool, is essential. In this respect we mainly focus on black-box testing, so that we spend the minimum time for conducting one single test, and free time for testing more modules, and procedures that integrate the modules.

From the aspect of the scope of a single test, we will conduct both unit tests, and system tests. In unit tests we will test basic functionality of the modules:

- Project Management
- User Management
- Task Management
- Meeting Management
- Notification & Messaging
- Calendar Management
- Client Management
- Resource Management
- Listings and Filtering

These unit tests will consist of testing the basic functionality of the various buttons, in various cases. The outcomes will be compared with the expected outcomes. We will also inspect the database table correctness, by eye inspection on the database. During the unit tests basically three kinds of input will be tested for each unit:

1. A Simple Case - A test value that establishes the basic correctness of the process.
2. Legal input values - Test values within the boundaries of the specification equivalence classes.
3. Illegal input values - Test values outside the boundaries of the specification.

System level tests will also be performed which will integrate various modules, and test the relationship between them, by incorporating scenarios that use multi-modular features. Again the outcomes will be compared with the expected results.

Both the unit tests and system-level tests are documented in the fifth section of this document, giving the explicit steps that will be followed when conducting the tests. After the tests specified in these documents are conducted, the results must be filled into the forms, and the resulting file must be inserted to the CVS under the directory *Test Results.*

4 Defect Tracking & Reporting

This section outlines our defect tracking process, which will ensure that all defects found during the testing process will be addressed. Our defect tracking procedure consists of the following steps:

- **Step 1:** Conducting Tests
- **Step 2:** Reporting the defect in the *Bug Report* and *Test Result Document* by the Tester
- **Step 3:** Assignment of an urgency and severity value to the defect, and assignment of the defect to a team member to resolve the problem by the Test Manager
- **Step 4:** Removal of the defect by the assigned Developer, and indicating this in the bug report by filling the *Fixed Date* field.
- **Step 5:** Retesting by the Tester.

Step 1: Conducting Tests

Every team member will be responsible for conducting the assigned tests, specified by the *Test Scenario Document*s. The *Test Scenario Document*s will be found under the 'Test Scenarios' directory in the CVS repository. Each test should be carried out before the deadline expires. By filling out the empty fields in the *Test Scenario Document*, *Test Result Document* will be formed, and this document will be committed to the CVS repository, under the directory 'Test Results'.

Step 2: Defect Report

After conducting the tests, if the Tester finds a defect in the software, then he will insert the required information about the defect into the file *Bug Report*, which will be found in the CVS repository. The tester will also notify the Test Manager, that he has reported a bug.

Step 3: Assignment

The Test Manager will assign a *severity* value, for the defect. The severity value indicates the defect's importance in terms of system functionality, and the potential for crashing the system. The severity can have three values:

- High
- Medium
- Low

Other than the severity value, the Test Manager specifies the *urgency* value for the defect. The urgency value indicates how soon the defect must be resolved. The urgency can take three values:

- High
- Medium
- Low

After indicating the severity and urgency of the defect, the Test Manager assigns one of the team members to resolve the issue. These are committed to the CVS, in the *Bug Report* file.

Step 4: Defect Removal

The assigned team member will remove the defect, and fill the *Fixed Date* field in the *Bug Report,* for the corresponding defect.

Step 5: Retesting

After the removal of the defect, the test will be carried out by the same tester, who found the bug. If the defect has not been removed, another entry will be made to the *Bug Report*, returning to Step 2.

5 Test Scenarios

5.1 Unit Test Scenarios

5.1.1 Project Management Test Scenarios

Test Case ID:	Project-1		
Start Conditions:	Administration upper tab, Project General Information lower tab must be open for a new project		
Description:	Creation of a new project is tested		
Status:	Not Started		
Tester:	Mehmet		
Due Date:	June 1st, 2005	**Test Date:**	

Step	**Test Data Used**	**Expected Result**	**Pass**	**Fail**
1	Leave The Project Name Field Empty. Press “save”	Warning telling to fill the project name field		
2	Fill the budget field with -5. Press “save”	Warning telling that budget must be positive		
3	Fill budget field with the string “aaccc”. Press “save”	Warning telling that budget must be filled with a positive number		
4	Set due date to a date earlier than start date. Press “save”	Warning telling that due date of the project must be later than start date		
5	Fill estimated person-month field with the string “aaccc”. Press “save”	Warning telling that estimated person-month must be filled with a positive integer		
6	Fill estimated person-month field with the string -5. Press “save”	Warning telling that estimated person-month must be filled with a positive integer		
7	Fill the project name with “a project”, budget with 5, due date to a date later than start date	A message telling that the new project is created must be shown.		
	End of Test Case			
		Overall Result:		
		Comments:		

Test Case ID:	Project-2				
Start Conditions:	Administration upper tab, Project General information tab must be open for an already existing project				
Description:	Updating a project is tested.				
Status:	Not Started				
Tester:	Mehmet				
Due Date:	June 1st, 2005	**Test Date:**			
Step	**Test Data Used**	**Expected Result**		**Pass**	**Fail**
1	Delete the project name field, leave it empty, press update button.	Warning telling to fill the project name field			
2	Delete the project name field, fill it with the new value "Proje2", press update button	A message telling that the project information is updated must be seen.			
3	Delete the budget field and enter the string "aaccc". Press "update"	Warning telling that budget must be a positive number must be displayed.			
4	Delete the budget field and enter the string -5. Press "update"	Warning telling that budget must be a positive number must be displayed.			
5	Delete the estimated-person month field and enter the string "aaccc". Press "update"	Warning telling that estimated person-month must be a positive integer must be displayed.			
6	Change the budget field to 30000. Press "update"	A message telling that the project is updated must be displayed. The new budget value must be seen as 30000.			
7	Change the estimated person-month field to 30. Press "update"	A message telling that the project is updated must be displayed. The new estimated person-month must be seen as 30.			
	End of Test Case				
		Overall Result:			
		Comments:			

Test Case ID:	Project-3			
Start Conditions:	Administration upper tab, Project General information lower tab must be open for an already existing project			
Description:	Deleting a project is tested			
Status:	Not Started			
Tester:	Mehmet			
Due Date:	June 1st, 2005	**Test Date:**		
Step	**Test Data Used**	**Expected Result**	**Pass**	**Fail**
1	Press the "delete" button.	A confirmation screen asking whether you are sure to delete the project is displayed.		
2	Press the "cancel" button.	The project information without a change must be displayed.		
3	Press the "OK" button.	The projects list page must be displayed where the deleted project should not be seen.		
	End of Test Case			
		Overall Result:		
		Comments:		

Test Case ID:	Project-4				
Start Conditions:	Administration Upper Tab – Project Assignation lower tab must be open.				
Description:	Assigning workers to a project				
Status:	Not Started				
Tester:	Mehmet				
Due Date:	June 1st, 2005	**Test Date:**			
Step	**Test Data Used**	**Expected Result**		**Pass**	**Fail**
1	Click the “Assign new User” link	New page with fields for the new user must be displayed.			
2	Leave the User drop down list with the value, “Select a user”. Click “Assign” button.	Warning telling that a user must be selected first.			
3	Select a user from the drop down list. Click “project manager” checkbox.	All the other access rights must be automatically selected when the “project manager” checkbox is selected.			
4	Click on “Arrange Meeting” checkbox, to remove the access right.	Warning telling that a “Project Manager” automatically has meeting arrangement access right.			
5	Click on “Open Project” checkbox, to remove the access right.	Warning telling that a “Project Manager” automatically has opening the project information access right.			
6	Click on “Project Manager” checkbox to remove the check. Then, click on “Arrange meeting” checkbox to remove the check.	Only the “open project” access right must be left checked.			
7	Click “Assign” button.	The Assigned Users list page must be displayed, with the previously selected user, assigned.			
	End of Test Case				
		Overall Result:			
		Comments:			

Test Case ID:	Project-5				
Start Conditions:	Administration Upper Tab – Project Phases lower tab must be open.				
Description:	Creation of the project phases is tested.				
Status:	Not Started				
Tester:	Mehmet				
Due Date:	June 1st, 2005	**Test Date:**			
Step	**Test Data Used**	**Expected Result**		**Pass**	**Fail**
1	Leave the "Phase name" field empty. Click "Save" button.	Warning telling that project phase name must be entered is displayed.			
2	Fill the "phase name" with "this is a phase". Click "save" button.	The phase list page must be displayed with the new phase added.			
3	Select the "start date" of the phase, a later date than the "due date". Press "save".	Warning telling that due date of the phase must be later than start date.			
	End of Test Case				
		Overall Result:			
		Comments:			

Test Case ID:	Project-6				
Start Conditions:	Administration Upper Tab – Project Resources lower tab must be open.				
Description:	Buying new resources to the project is tested.				
Status:	Not Started				
Tester:	Mehmet				
Due Date:	June 1st, 2005	**Test Date:**			
Step	**Test Data Used**	**Expected Result**		**Pass**	**Fail**
1	Leave the "resource name" drop down list with the value "select a resource". Click "save" button.	Warning telling that a resource type must be selected is displayed.			
2	Select a resource type from the drop down menu, leave the quantity field empty. Click "Save".	Warning telling that quantity must be specified id displayed.			
3	Select a resource type from the drop down menu, in the quantity field type "aaacc". Click "Save".	Warning telling that quantity must be a positive integer must be displayed.			
4	Select a resource type from the drop down menu, in the quantity field type -5. Click "Save".	Warning telling that quantity must be a positive integer must be displayed.			
5	Select a resource type from the drop down menu, in the quantity field type 300. Click "Save".	The project resources list will b displayed with the newly bought resource			
6	Click "General Information" tab.	The budget information of the project must be decreased with the price of the newly bought resource.			
	End of Test Case				
		Overall Result:			
		Comments:			

5.1.2 User Management Test Scenarios

Test Case ID:	User-1				
Start Conditions:	Administration upper tab-User General information lower tab must be open.				
Description:	New user creation is tested.				
Status:	Not Started				
Tester:	Dogan				
Due Date:	June 1st, 2005	**Test Date:**			
Step	**Test Data Used**	**Expected Result**		**Pass**	**Fail**
1	Leave the "user name" field empty, and click "save".	Warning telling that "user name" must be specified is displayed.			
2	Fill the user name with "ali". Leave the password field empty. Click "save" button.	Warning telling that password must be specified is displayed.			
3	Fill the password field with "aaacc". Fill the "re-enter password" field with "bbbcc". Click "save" button.	Warning telling that inconsistent passwords are supplied is displayed.			
4	Fill the user name with "ali", the password field with "aaaccc", re-enter password field with "aaaccc", leave the First and last name field empty. Click "Save" button.	Warning telling that first name must be specified for the user is displayed.			
5	Fill the user name with "ali", the password field with "aaaccc", re-enter password field with "aaaccc", fill the first and last name fields with "ali" and "veli". Click "Save" button.	Message telling that the new user is created is displayed.			
6	Click the "Browse" button for the picture field. Select a .txt file to upload. Click "save".	Warning telling that the supplied file was not an image file is displayed.			
7	Click the "Browse" button for the picture field. Select an image file to upload. Click "save".	The image file uploaded must be shown in the top right corner as the user's picture.			
	End of Test Case				
		Overall Result:			
		Comments:			

Test Case ID:	User-2				
Start Conditions:	Administration upper tab-User General information lower tab must be open for an already existing user.				
Description:	User information update is tested.				
Status:	Not Started				
Tester:	Dogan				
Due Date:	June 1st, 2005	**Test Date:**			
Step	**Test Data Used**	**Expected Result**		**Pass**	**Fail**
1	Delete the user name field of the user. Leave it empty. Click "Update" button.	Warning telling that "user name" must be specified is displayed.			
2	Change the password field. Leave the "Re-enter password" field as it is. Click "update" button.	Warning telling that inconsistent passwords are supplied is displayed.			
3	Change the first name of the user as "mahmut". Click "save" button.	A message telling that the user info is updated must be displayed, with the name field changed to "mahmut".			
	End of Test Case				
		Overall Result:			
		Comments:			

Test Case ID:	User-3			
Start Conditions:	Administration upper tab- User General information lower tab must be open for an already existing user.			
Description:	User deletion is tested.			
Status:	Not Started			
Tester:	Dogan			
Due Date:	June 1st, 2005	**Test Date:**		
Step	**Test Data Used**	**Expected Result**	**Pass**	**Fail**
1	Press the "delete" button.	A confirmation screen asking whether you are sure to delete the user is displayed.		
2	Press the "cancel" button.	The user information without a change must be displayed.		
3	Press the "OK" button.	The "users list" page must be displayed where the deleted user should not be seen.		
	End of Test Case			
		Overall Result:		
		Comments:		

5.1.3 Task Management Test Scenarios

Test Case ID:	Task-1			
Start Conditions:	Project upper tab, task general information lower tab must be open.			
Description:	Task creation is tested.			
Status:	Not Started			
Tester:	Dogan			
Due Date:	June 1st, 2005	**Test Date:**		
Step	**Test Data Used**	**Expected Result**	**Pass**	**Fail**
1	Leave the "Task Description" field empty. Click "Save" button.	Warning telling that task description must be specified is displayed.		
2	Fill the task description field with "this is a task". Click "save" button.	A message telling that the task is created must be displayed.		
3	Fill the estimated hours field with the value -5. Click "save" button.	Warning telling that the estimated hours must be a positive number is displayed.		
4	Fill the estimated hours field with the value "xxx". Click "save" button.	Warning telling that the estimated hours must be a positive number is displayed.		
	End of Test Case			
		Overall Result:		
		Comments:		

Test Case ID:	Task-2				
Start Conditions:	Project upper tab, task general information lower tab must be open for an already existing task.				
Description:	Updating of the task information is tested.				
Status:	Not Started				
Tester:	Dogan				
Due Date:	June 1st, 2005	**Test Date:**			
Step	**Test Data Used**	**Expected Result**		**Pass**	**Fail**
1	Delete the task description field, and click "Update" button.	Warning telling that the task description field must be filled is displayed.			
2	Fill the task description field with the value "new description". Click "Update" button.	The task information must be updated with the task description changed to "new description".			
3	Change the estimated hours field to -4. Click "Update" button.	Warning telling that the estimated hours must be a positive number is displayed.			
4	Change the estimated hours field to "sss". Click "Update" button.	Warning telling that the estimated hours must be a positive number is displayed.			
5	Change the estimated hours field to 150. Click "Update" button	The task information must be updated with the estimated hours changed to 150.			
	End of Test Case				
		Overall Result:			
		Comments:			

Test Case ID:	Task-3			
Start Conditions:	Project upper tab, task general information lower tab must be open for an already existing task.			
Description:	Deletion of a task is tested.			
Status:	Not Started			
Tester:	Dogan			
Due Date:	June 1st, 2005	**Test Date:**		

Step	**Test Data Used**	**Expected Result**	**Pass**	**Fail**
1	Press the “delete” button.	A confirmation screen asking whether you are sure to delete the task is displayed.		
2	Press the “cancel” button.	The task information without a change must be displayed.		
3	Press the “OK” button.	The “project tasks list” page must be displayed where the deleted task should not be seen.		
	End of Test Case			
		Overall Result:		
		Comments:		

Test Case ID:	Task-4			
Start Conditions:	Project upper tab, task general information lower tab must be open for an already existing task.			
Description:	The "work on task" facility is tested.			
Status:	Not Started			
Tester:	Dogan			
Due Date:	June 1st, 2005	**Test Date:**		

Step	**Test Data Used**	**Expected Result**	**Pass**	**Fail**
1	Click on the "Work on Task" button.	The general information page is displayed, with the "work on task" button changed to "stop working" button.		
2	Wait for 5 minutes. Then click "Stop working" button.	The general information page is displayed, with the "stop working" button changed to "work on task" button. The hours worked on field pf the task must be increased by 5 minutes.		
3	Click on the "Work on Task" button as the user "A". From another browser enter the system as another user "B". Open the general information page for the same task.	A message telling that user "A" is currently working on the task is displayed.		
4	Click "Sign out" without clicking "stop working" button. Re-enter system with the same user. Go to the general information page of the same task.	The work of the user on the task should be seen as stopped after signing out, even if the user did not clicked on "stop working" before signing out.		
	End of Test Case			
		Overall Result:		
		Comments:		

Test Case ID:	Task-5		
Start Conditions:	Project upper tab, task assignation lower tab must be open for an already existing task.		
Description:	Task assignation is tested.		
Status:	Not Started		
Tester:	Dogan		
Due Date:	June 1st, 2005	**Test Date:**	

Step	**Test Data Used**	**Expected Result**	**Pass**	**Fail**
1	Check the "assigned" check box for a user. Click "Assign" button.	The assigned users list for the task must be displayed with the newly assigned user shown.		
2	Click the "Assignation" button. Then check the "Reviewer" checkbox for the assigned user. Click "Assign" button.	The user must be changed as "reviewer" in the assigned users list for the task.		
3	In the users list, click the workload link near a user name.	The workload of the user must be shown in a graph.		
	End of Test Case			
		Overall Result:		
		Comments:		

5.1.4 Meeting Management Test Scenarios

Test Case ID:	Meeting-1				
Start Conditions:	The Project upper tab, Meeting General Information Lower tab must be open.				
Description:	Creation of a new meeting is tested.				
Status:	Not Started				
Tester:	Firat				
Due Date:	June 1st, 2005	**Test Date:**			
Step	**Test Data Used**	**Expected Result**		**Pass**	**Fail**
1	Leave the meeting name field empty, and press "save" button.	Warning telling that "meeting name" field must be filled is displayed.			
2	Fill the meeting name with the string "mmmttt". Do not select any time option, click "save" button.	Warning telling that at least one time option must be specified is displayed.			
3	Select a time option that is prior to the actual current day. Click "Save" button.	Warning telling that time options must be for the future is displayed.			
4	Select a time option that is five minutes later than the current time. Click "Save" button.	Message telling that the meeting is created, and is in the process of being arranged is displayed.			
5	Fill the estimated duration field with the value "ddd".	Warning telling that estimated duration must take on a positive integer value is displayed.			
	End of Test Case				
		Overall Result:			
		Comments:			

Test Case ID:	Meeting-2				
Start Conditions:	The Project upper tab, Meeting General Information Lower tab must be open for an already created meeting, that is in "being arranged" status. The user must be the only assigned user to this meeting.				
Description:	Selection of a time preference for the meeting is tested.				
Status:	Not Started				
Tester:	Firat				
Due Date:	June 1st, 2005	**Test Date:**			
Step	**Test Data Used**	**Expected Result**		**Pass**	**Fail**
1	For the specified time options, do not select any value. Click "save" button.	Warning telling that meeting time preferences must be made is displayed.			
2	Select a preference value, for all the time options. Click "save" button.	A message telling that the meeting date is decided must be displayed, showing the meeting time as the time option which was given the highest preference by the user. If the user gave same highest preference for two time options, then the meeting time option with the closest day to today must be displayed as the meeting date.			
	End of Test Case				
		Overall Result:			
		Comments:			

5.1.5 Notification & Messaging Test Scenarios

Test Case ID:	Notification-1			
Start Conditions:	The upper tab My Office and lower tab My Notifications must be open.			
Description:	Creation of a message notification is tested.			
Status:	Not Started			
Tester:	Firat			
Due Date:	June 1st, 2005	**Test Date:**		

Step	**Test Data Used**	**Expected Result**	**Pass**	**Fail**
1	Click the "Send Message" button.	A message form must be displayed.		
2	In the "to" field enter a value, that is not registered as a user id in the system. Click "Send" button.	A message telling that no such user exists is displayed.		
3	In the "to" field enter a value that is the user id of a registered user. Click "send" button.	A message telling that the message is sent is displayed.		
4	Sign in as the user that the message is sent to. Go to My Office- My Notifications Page.	The message sent to this user must be seen as unread message.		
	End of Test Case			
		Overall Result:		
		Comments:		

5.1.6 Calendar Management Test Scenarios

Test Case ID:	Calendar-1			
Start Conditions:	My Office upper tab, My Calendar lower tab must be open.			
Description:	Creation and update of a calendar item is displayed.			
Status:	Not Started			
Tester:	Tuncay			
Due Date:	June 1st, 2005	**Test Date:**		

Step	**Test Data Used**	**Expected Result**	**Pass**	**Fail**
1	Click on the "+" link shown on the upper right corner of a calendar day.	A new form for the calendar item will be displayed.		
2	Leave the "item description" field empty. Click "Save" button.	The calendar will be displayed with the new item displayed in the corresponding day.		
3	Click on the link of the calendar item.	The calendar item with the fields filled with the saved values will be displayed.		
4	Change the "Date" field of the item to a previous day. Click "Update".	Warning telling that an item can not be inserted for past days is displayed.		
5	Change the Date field of the item to today, and set the hour five minutes from the current hour. Select the send reminder option of the item. Click the "Save" button.	The calendar will be displayed with the updated item displayed in the today's field.		
6	Wait for five minutes.	An entry to the My Notification tab will be made by the system automatically for the calendar item.		
	End of Test Case			
		Overall Result:		
		Comments:		

5.1.7 Client Management Test Scenarios

Test Case ID:	Client-1				
Start Conditions:	The Administration upper tab, Clients lower tab must be opened.				
Description:	Creation of a client is tested.				
Status:	Not Started				
Tester:	Tuncay				
Due Date:	June 1st, 2005	**Test Date:**			
Step	**Test Data Used**	**Expected Result**		**Pass**	**Fail**
1	Leave the "Client Name" field empty. Click "Save" button.	Warning telling that the client name can not be left empty is displayed.			
2	Fill the client name field. Click "Save".	A message telling that the new client is created will be displayed.			
	End of Test Case				
		Overall Result:			
		Comments:			

Test Case ID:	Client-2				
Start Conditions:	The login screen must be open.				
Description:	Limited viewing of the projects of a client is tested.				
Status:	Not Started				
Tester:	Tuncay				
Due Date:	June 1st, 2005	**Test Date:**			
Step	**Test Data Used**	**Expected Result**		**Pass**	**Fail**
1	Fill the company name, the client id and password and click "login".	A page showing the number of tasks completed in the tasks will be displayed.			
2	Try to edit the fields in the client view.	Warning telling that client mode is a read-only mode is displayed.			
	End of Test Case				
		Overall Result:			
		Comments:			

5.1.8 Resource Management Test Scenarios

Test Case ID:	Resource-1				
Start Conditions:	Administration upper tab, Configuration menu item, Resource types lower tab must be displayed.				
Description:	The resource type definition is tested.				
Status:	Not Started				
Tester:	Firat				
Due Date:	June 1st, 2005	**Test Date:**			
Step	**Test Data Used**	**Expected Result**		**Pass**	**Fail**
1	Resource type name field is left empty. Click “Save” button.	Warning saying that resource type name must be specified is displayed.			
2	Enter “hhh” into the resource unit price field. Click “save” button.	Warning telling that resource unit price must be a positive number is displayed.			
3	Enter -8 into the resource unit price field. Click “save” button.	Warning telling that resource unit price must be a positive number is displayed.			
4	Enter “a resource” into the resource field name. Enter 8 into the “resource unit price” field. Click “save” button.	The list of company resource types will be displayed with the newly created resource type added to the list.			
	End of Test Case				
		Overall Result:			
		Comments:			

5.1.9 Listing & Filtering Test Scenarios

Test Case ID:	Listing-1			
Start Conditions:	Administration upper tab, Projects List page is open.			
Description:	Filtering the list of projects is tested.			
Status:	Not Started			
Tester:	Mehmet			
Due Date:	June 1st, 2005	**Test Date:**		

Step	**Test Data Used**	**Expected Result**	**Pass**	**Fail**
1	Click the “Filter” button, without specifying any filter.	All the projects of the company must be listed.		
2	Select one of the project types from the drop down menu. Click “Filter” button.	The projects of the specified type of the company must be listed.		
3	Select one of the clients from the drop down menu. Click “Filter” button.	The projects which are done for the specified client must be listed.		
4	Select “Incomplete Projects” from the “Project Statuses” drop down menu. Click “Filter” button.	Only the projects which have incomplete tasks in the company will be listed.		
5	Select “Complete Projects” from the “Project Statuses” drop down menu. Click “Filter” button.	Only the projects which are completed in the company will be listed.		
	End of Test Case			
		Overall Result:		
		Comments:		

5.2 System Level Test Scenarios

5.2.1 Meeting Time Decision Test Scenario

Test Case ID:	Meeting-3				
Start Conditions:	The Project upper tab, Meeting General Information Lower tab must be open for an already created meeting, that is in "being arranged" status. The user must be the one of the two assigned users to this meeting.				
Description:	Selection of a time preference for the meeting is tested.				
Status:	Not Started				
Tester:	Tuncay				
Due Date:	June 1st, 2005	**Test Date:**			
Step	**Test Data Used**	**Expected Result**		**Pass**	**Fail**
1	For the specified time options, select "I can attend" for the first time option. For the second time option, select "I can not attend". Click "save" button.	A message telling that the meeting selections are saved is displayed.			
2	Sign in as the second user that is assigned to the meeting. Select "I can attend" for the second time option. For the first time option, select "I can not attend". Click "save" button.	A message telling that the meeting selections are saved is displayed.			
3	Sign in as the arranger of the meeting. Open the meeting general information tab.	A message telling that there was a conflict between user preferences is displayed, and a suggestion for re-arranging the meeting is made.			
	End of Test Case				
		Overall Result:			
		Comments:			

5.2.2 Task Assignation – Notification Creation Test Scenario

Test Case ID:	Notification-2				
Start Conditions:	The Project upper tab, Project Tasks list must be open.				
Description:	Creation of notification when a task is assigned to someone, is tested.				
Status:	Not Started				
Tester:	Tuncay				
Due Date:	June 1st, 2005	**Test Date:**			
Step	**Test Data Used**	**Expected Result**		**Pass**	**Fail**
1	Click the "Create new task" link. Fill in the name field with "a task". Click "save".	A message telling that the task is saved is displayed.			
2	Click on the "Assignation" tab.	An empty list of assigned users to this task must be displayed.			
3	Click the "Assign new Users" button.	A new page with the users listed will be displayed.			
4	Click on the "Assigned" checkbox for one of the users.	A list of assigned users to this task must be displayed, with the recently assigned user shown.			
5	Sign out and sign in as the user that was assigned to the task.	In the My Office Menu, near My Notifications tab, in parentheses "(1)" will be seen.			
6	Click the "My Notification" tab.	In the list of notifications, there must be an item that is saying that a new task is assigned to the user.			
7	Click the link of the task notification.	A new page showing the details of the assigned task will be opened.			
	End of Test Case				
			Overall Result:		
			Comments:		

5.2.3 Assigning as Meeting Attendant – Notification Creation Test Scenario

Test Case ID:	Notification-3		
Start Conditions:	The Project upper tab, Project Meetings list must be open.		
Description:	Creation of notification when someone is assigned to a meeting is tested.		
Status:	Not Started		
Tester:	Tuncay		
Due Date:	June 1st, 2005	**Test Date:**	

Step	**Test Data Used**	**Expected Result**	**Pass**	**Fail**
1	Click the "Create new meeting" link. Fill in the name field with "a meeting". Select a time option. Click "save".	A message telling that the meeting is saved is displayed.		
2	Click on the "Assignation" tab.	An empty list of assigned users to this meeting must be displayed.		
3	Click the "Assign new Users" button.	A new page with the users listed will be displayed.		
4	Click on the "Assigned" checkbox for one of the users.	A list of assigned users to this meeting must be displayed, with the recently assigned user shown.		
5	Sign out and sign in as the user that was assigned to the meeting.	In the My Office Menu, near My Notifications tab, in parentheses "(1)" will be seen.		
6	Click the "My Notification" tab.	In the list of notifications, there must be an item that is saying that a new meeting is assigned to the user.		
7	Click the link of the meeting notification.	A new page showing the details of the assigned meeting will be opened.		
7	Select the preferences for all of the time options for the meeting. Click "Save" button.	A message telling that the meeting is saved is displayed.		
8	Sign in as the meeting arranger. Click the "My Notification" tab.	In the list of notifications, there must be an item that is saying that the meeting time is fixed.		
9	Click the link of the meeting notification.	A new page showing the details of the fixed meeting will be opened. The meeting status will be seen as fixed.		
	End of Test Case			
		Overall Result:		
		Comments:		

5.2.4 Buying Project Resources with Budget Test Scenario

Test Case ID:	Resource-2				
Start Conditions:	Administration upper tab, Project General information lower tab must be open.				
Description:	Buying new resources to a project is tested.				
Status:	Not Started				
Tester:	Firat				
Due Date:	June 1st, 2005	**Test Date:**			
Step	**Test Data Used**	**Expected Result**		**Pass**	**Fail**
1	Set the project budget to 0(zero). Click “update”.	Message will be displayed telling that the project info is updated			
2	Click on “Project Resources” tab.	The project resources will be listed.			
3	Click “Buy new Resource” link.	A new form will be displayed with the list of resource types.			
4	Select one of the resources, enter the quantity 5 to the “quantity” field. Click “buy”.	Warning telling that you do not have the sufficient budget to buy new resources is displayed.			
5	Click on Project General Information Tab.	The project’s information page will be opened.			
6	Enter the value 10000 into the budget field. Click “Update” button.	A message telling that the project info is updated will be displayed.			
7	Click on “Project Resources” tab.	The project resources will be listed.			
8	Click “Buy new Resource” link.	A new form will be displayed with the list of resource types.			
9	Select one of the resources, enter the quantity 5 to the “quantity” field. Click “buy”.	Message telling you that the specified resource is bought for the project.			
10	Click on “Project Resources” tab.	The project resources will be listed with the newly bought resource added.			
11	Click on “Project General Information” tab.	The project information will be displayed, where the budget will be decreased by the amount that is spent for the newly bought resource.			
	End of Test Case				
		Overall Result:			
		Comments:			

5.2.5 Task Assignation – Listing Test Scenario

Test Case ID:	Listing-2			
Start Conditions:	Project upper tab, Tasks List page must be open.			
Description:	Assigning new tasks to a user and the listing of them as "assigned" for the assigned user is tested.			
Status:	Not Started			
Tester:	Firat			
Due Date:	June 1st, 2005	**Test Date:**		
Step	**Test Data Used**	**Expected Result**	**Pass**	**Fail**
1	Click the "Create new task" link. Fill in the name field with "a task". Click "save".	A message telling that the task is saved is displayed.		
2	Click on the "Assignation" tab.	An empty list of assigned users to this task must be displayed.		
3	Click the "Assign new Users" button.	A new page with the users listed will be displayed.		
4	Click on the "Assigned" checkbox for one of the users.	A list of assigned users to this task must be displayed, with the recently assigned user shown.		
5	Sign out and sign in as the user that was assigned to the task.	The Projects of the logged in user will be listed.		
6	Click on the project name, from which a task was assigned to this user.	The "Project Tasks" list will be displayed, with the newly assigned task added.		
7	Click on "My Office" upper tab. "My Tasks" menu.	The "User's Tasks" list will be displayed, with the newly assigned task added.		
	End of Test Case			
		Overall Result:		
		Comments:		