



**Software Design Document, Testing, Deployment
And Configuration Management,
And User Manual of the UUIS
-- A Team 4 COMP5541-W10 Project Approach**

Computer Science & Software Engineering

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1 Introduction

This introduction provides an overview of the *System Architecture Document* for Unified University Inventory System. It includes the purpose, scope, target audience, design approach, main component design and high level system design considerations of the system.

Document Scope and Purpose

This document provides a description of the technical design for Unified University Inventory System – Web Portal. This document's primary purpose is to describe the technical vision for how business requirements will be realized. This document provides an architectural overview of the system to depict different aspects of the system. This document also functions as a foundational reference point for developers.

Please note that this is a baseline document and may be updated as development progresses.

Target Audience

This document is targeted (but not limited) to technical stakeholders:

- Development Team
- IT Management
- Support Staff

It is assumed that the reader has a technical background in software design and development.

Acronyms/Abbreviations

Acronym	Meaning
UUIS	Unified University Inventory System
IUFA	Imaginary University of Arctica

Reference Documents

- System requirement document of UUIS
- Development Standards and Guidelines

System Environment

- Development: Netbeans 6.8 + Grails 1.2.1
- Unit Test: Junit
- Diagrams: Visio 2007 / ConceptDraw Pro (Mac)
- Database Management: MySQL Workbench:
- Database: MySQL 5
- Server: Windows Server 2008
- Server: Apache Tomcat 6
- Revision control: Sourceforge Subversion -
<https://comp5541-team4.svn.sourceforge.net/svnroot/comp5541-team4>
- Discussion: Google groupss

Design Approach

The design approach used here is based on the following:

Data Flow Design

The data flow of the UUIS is Internet-based. Hibernate technologies will be utilized to retrieve and cache data from MySQL database to be displayed by the Web portal user interface. Hibernate would also allow updating the data where applicable.

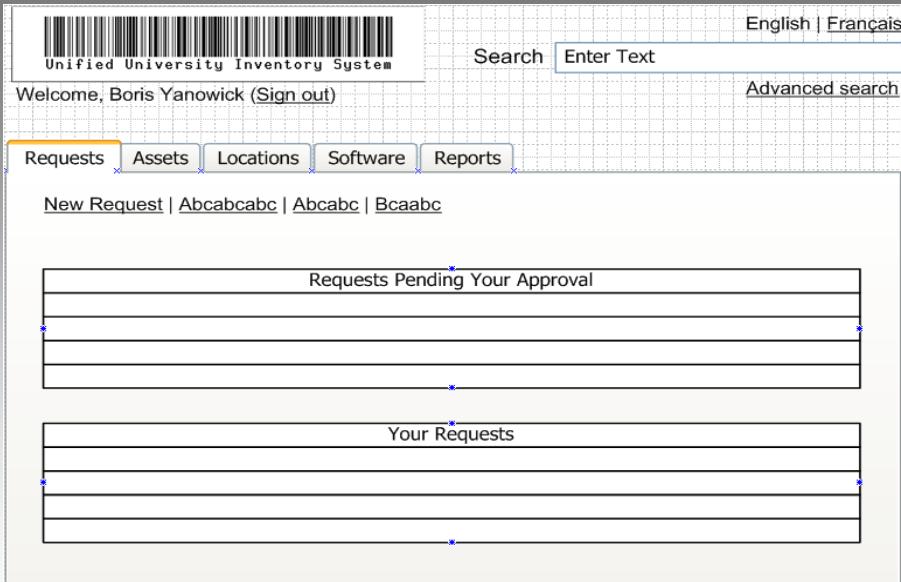
Architecture Design

The Customer Support System application will follow a Four Layer Architecture so that the objects in the system as a whole can be organized to best separate concerns and prepare for distribution and reuse. A principal advantage to this design is the relative stability of the components as seen by the applications developer. Implementations may change considerably to enhance the performance or in response to changes in the architecture. These changes are less likely to cause major impact to the applications' programs.

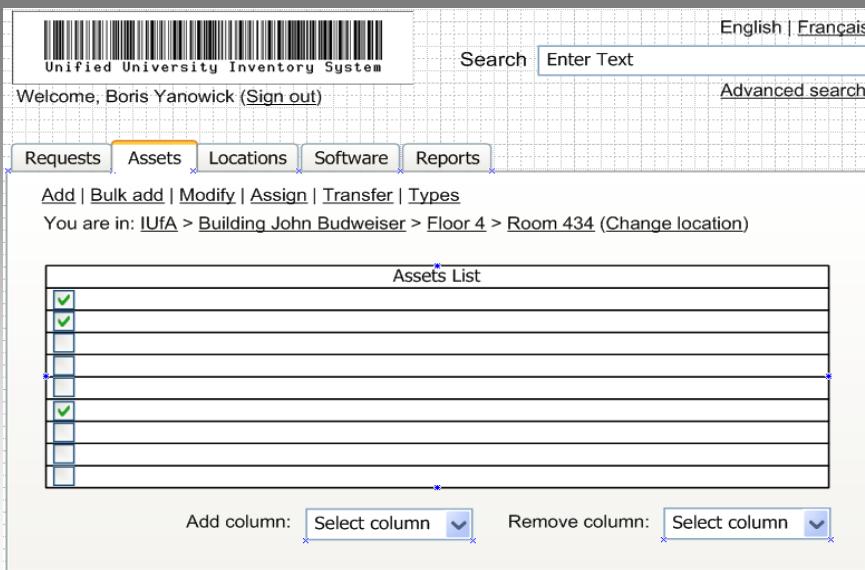
UI Design

Wire Frames are used for UI design. Wire frames are an effective tool for collecting and presenting functionality, navigation, and content of an application or web site. Annotations or notes attached to elements or widgets on the wire frame help to communicate specific functions.

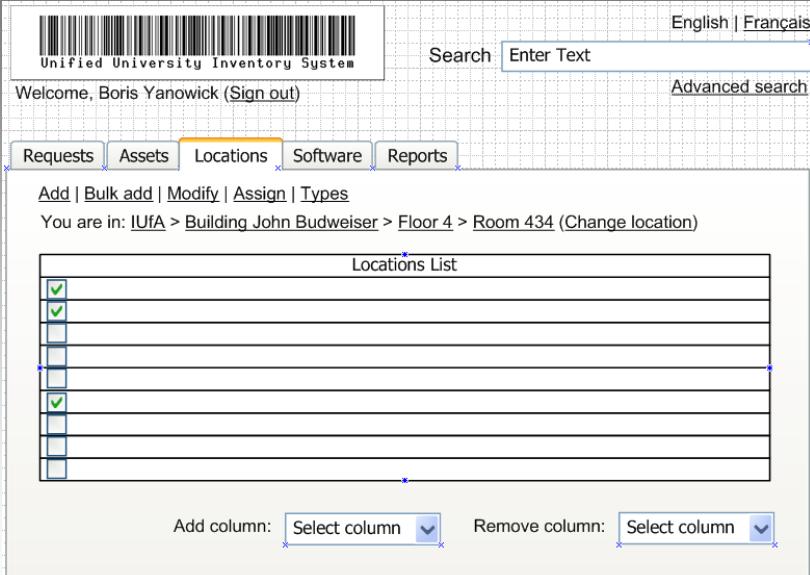
Some Screen Shoots.



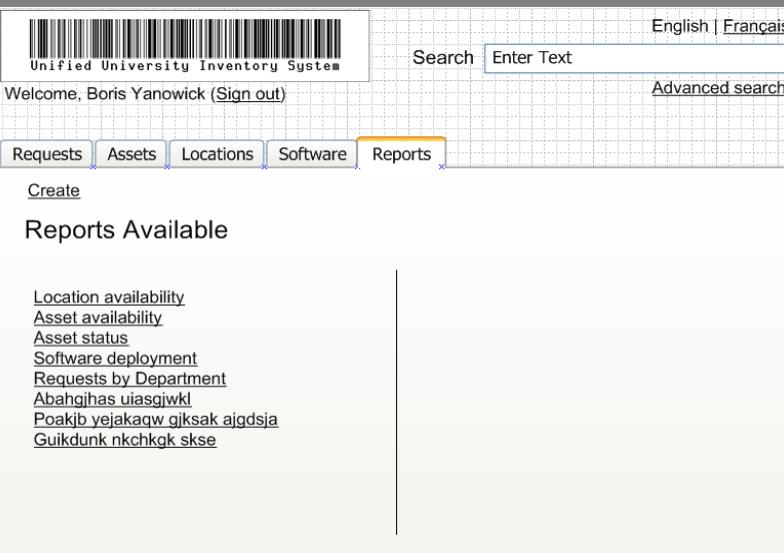
Screen Mockup – Request *Figure 1.1*



Screen Mockup – Assets *Figure 1.2*



Screen Mockup – Location *Figure 1.3*



Screen Mockup – Report *Figure 1.4*

Asset report by locations

Building: Room Type:

All	All
Building 1	Research lab
Building 2	Teaching lab
....	Class room
	Office

Screen Mockup – Asset report *Figure 1.5*

Request report

Department:

Status:

Submitted date:

Screen Mockup – Request report *Figure 1.6*

User permission report

Department:

Screen Mockup – User permission report *Figure 1.7*

Design Patterns

This application is designed as an object-oriented system for an Internet-based architecture using four-layer architecture by factoring application classes into the following layers:

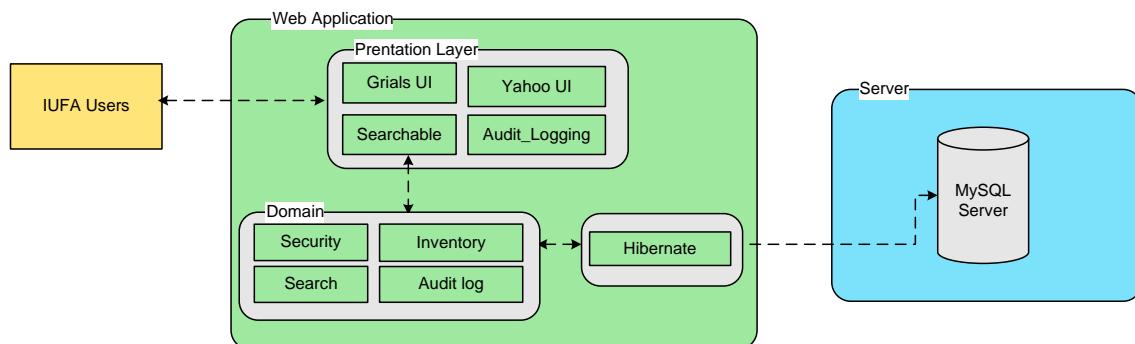
The Presentation layer. This is the layer where the physical window and widget objects live. It will also contain Controller classes as in classical MVC. Any new user interface widgets developed for this application are put in this layer. In most cases this layer is completely developed within Grails.

The Domain Mode. Most objects identified in the OO analysis and design will reside. To a great extent, the objects in this layer can be application-independent. Generic objects may be used in this application to reap the benefits of Object Oriented programming.

The Hibernate layer. The domain model has been mapped using Hibernate. This will map Grails domain classes onto a wider range of legacy systems and will be more flexible in the creation of your database schema.

The Data layer. The data is managed by MySQL.

UUIS High level View



The high level view of UUIS *Figure 1.8*

Grails UI plug in: to present the user interface

Yahoo UI: A set of utilities and controls, written with JavaScript and CSS, for building richly interactive web applications using techniques such as DOM scripting, DHTML and AJAX

Searchable plug in: to implement the search component.

DynamicJasper plug in: to generate the reports.

Audit_Logging plug in: easy to implement the audit log module.

2 System Design Considerations

Web-site directories

The following web-site directories will be used to organize the JSP Pages used in the web-site:

User site Directories:

- Root Directory - All web pages related to user functions.
- Images Directory – Contains the images used by the system.
- Reports: Contains the local reports that would be used to export to CSV format.

Exception Handling

A good way to track exceptions is to implement an exception handler at the application level. This will allow consolidation of the logging and notification parts of the exception handling in one convenient place.

The global exception handler can handle both specific exceptions that UUIS trap in the code as well as generic un-handled exceptions. After global exception handler has done its work, it would redirect the users of the website to a friendly error page that tells them that something has gone wrong and instructions on what to do.

All unhandled exceptions would be logged in the Windows Application Event Log or log files with some detail on the nature of the failure.

3 Modules

Search

General Search

The general search included that retrieve records from the database according to user-specified search criteria. Further, the search may encompass other information collections like on-screen data.

Advanced Search

The advanced search may need to be added to the system in order to remain as flexible as possible, the search module is designed in such a way as to isolate the specifics of search implementation from the application. The search module has a limited API exposed, and depending on its configuration it can implement the required search class without further programmer intervention. It should be possible to add other classes of search, relating to other types of data, with relatively little effort.

Inventory

Assets

The assets included the management of asserts (et. Computers, tables, office supplies, software ...). The granted user can add, edit and modify the assets within his scope. When create a new asset, a unit bar code will be generated. The granted user can also add, delete or modify an asset type. For each asset, there should have a barcode property (optional). To generate the barcode from the asset ID, we can employ the barcode generator at <http://www.barcodesinc.com/generator/index.php>

Locations

The location included the management of location resources (et. Buildings, offices, teaching lab, research lab ...). The granted user can add, edit and modify the locations within his scope. And modify the location type, capacity, description and property of. The granted user can also add, delete and modify the location type.

Requests

The request included the management of requests. The general user can make, submit and view requests. The granted administrators can approve, reject and view requests within his scope.

Reports

This module generates reports on assets, locations and user permission, and export to pdf to easy use. There will be three reports (also refer the UI mockup):

- 1) Asset report: by selecting the building and room type, generate the asset report by calculated the numbers of computer, locker, and tables ... in that building.
- 2) Request report: filtering by the department, request status and request data range, generate the request report and export to pdf.
- 3) User permission report: by selecting the department, generate the user permission report to illustrate all the user permission.
- 4) User report: by selecting the building and room type, generate the user report by calculated the numbers of students, professors, and stuffs in that building.

BulkLoad

Batch import the assets from CVS and also able to batch modify the assets from CVS.

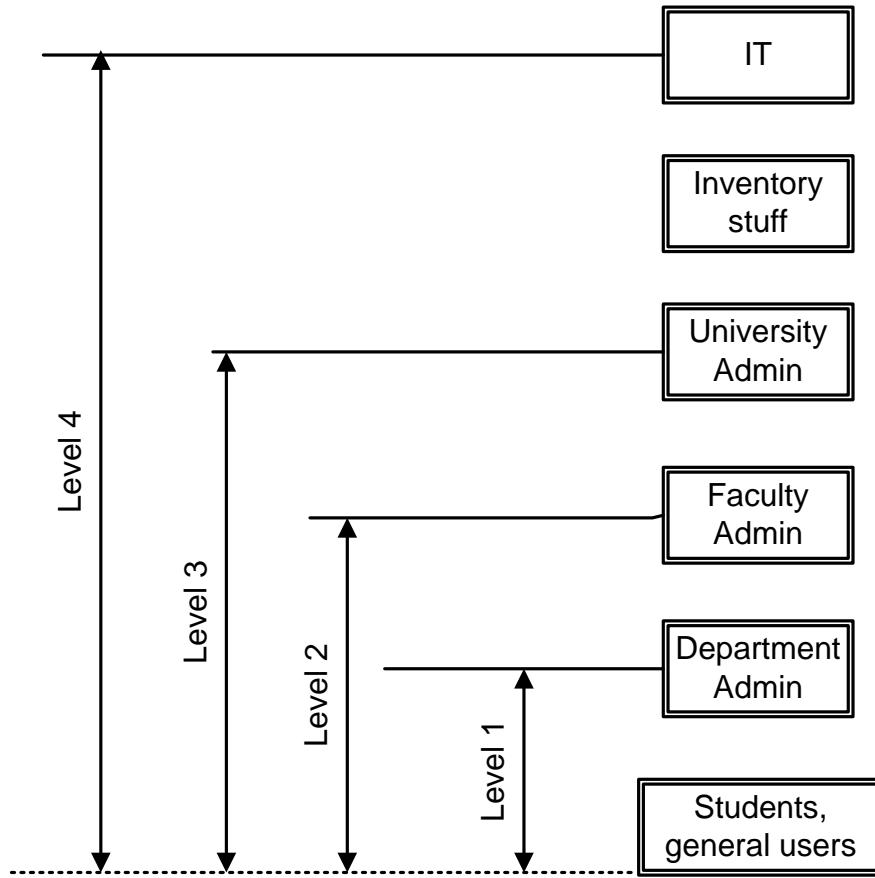
Security

University Structure

This module can manage the university, faculties and departments hierarchy structure. Change the relationship of university structure.

Users & Permissions

This module can assign, remove and editing the user permission. There are four levels of user from the access permission respective: 1) Level 1 -the student and general user, who are only able to make request and view their own requests; 2) Level 2-department administrators who are able to manage the requests, view audit log and search assets in their own department; 3) Level 3- faculty administrators who are able to manage the requests, view audit log and search assets in their own faculty; 4) Level 4- IT stuffs, inventory stuffs and university administrators who are able to manage the requests, view audit log and search assets in the whole university.



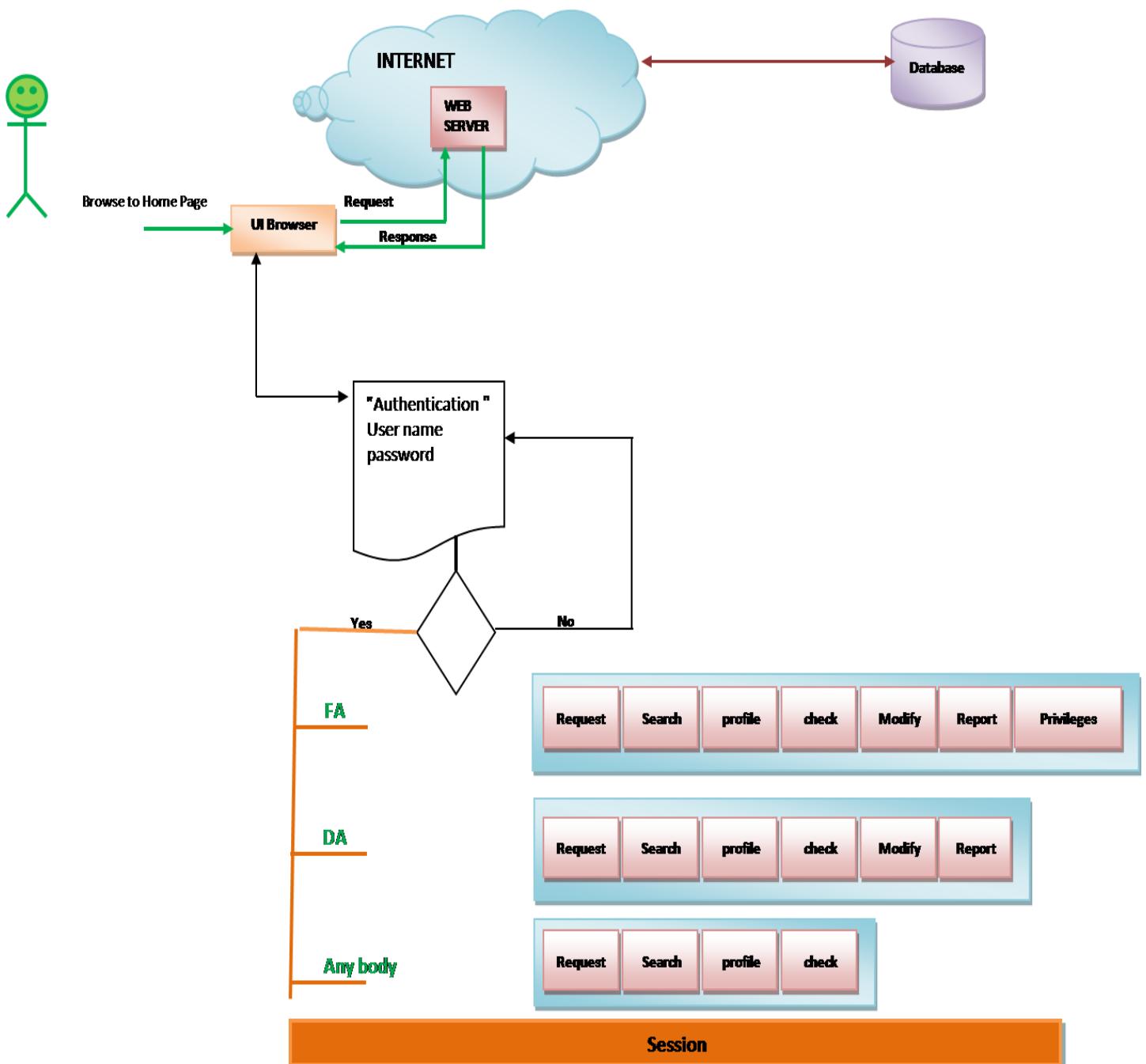
User Hierarchy Level *Figure 3.1*

Audit log

Auditing

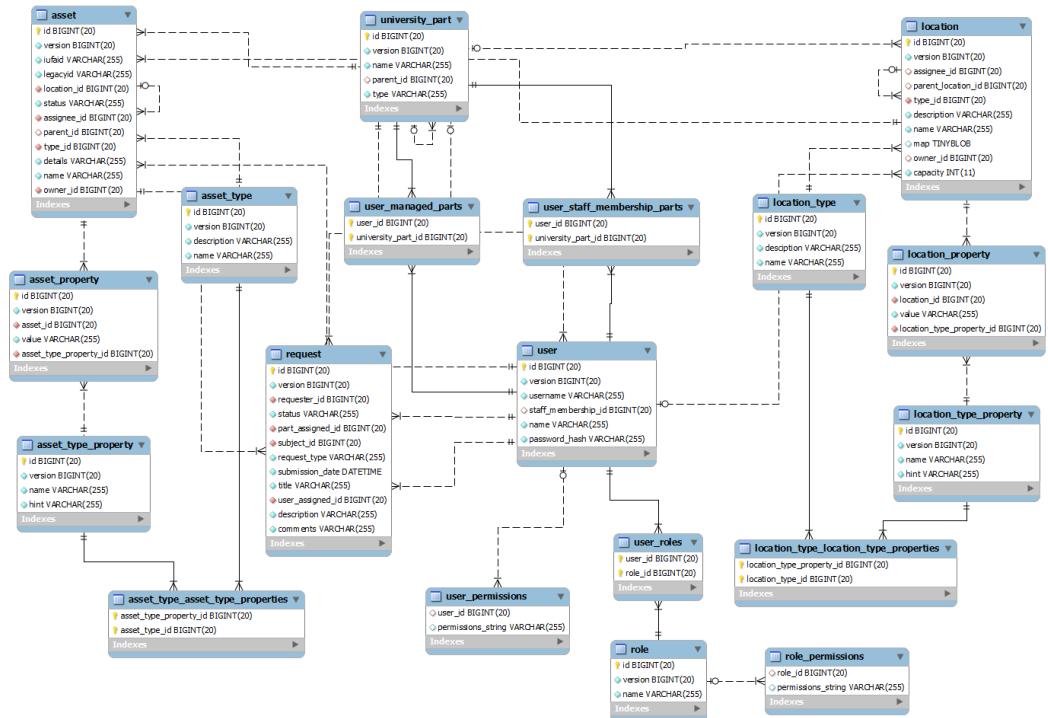
This module can list all the user activities in the web application.

4 Activity Diagram



Activity Diagram of UUIS *Figure 4.1*

5 Entity Diagram

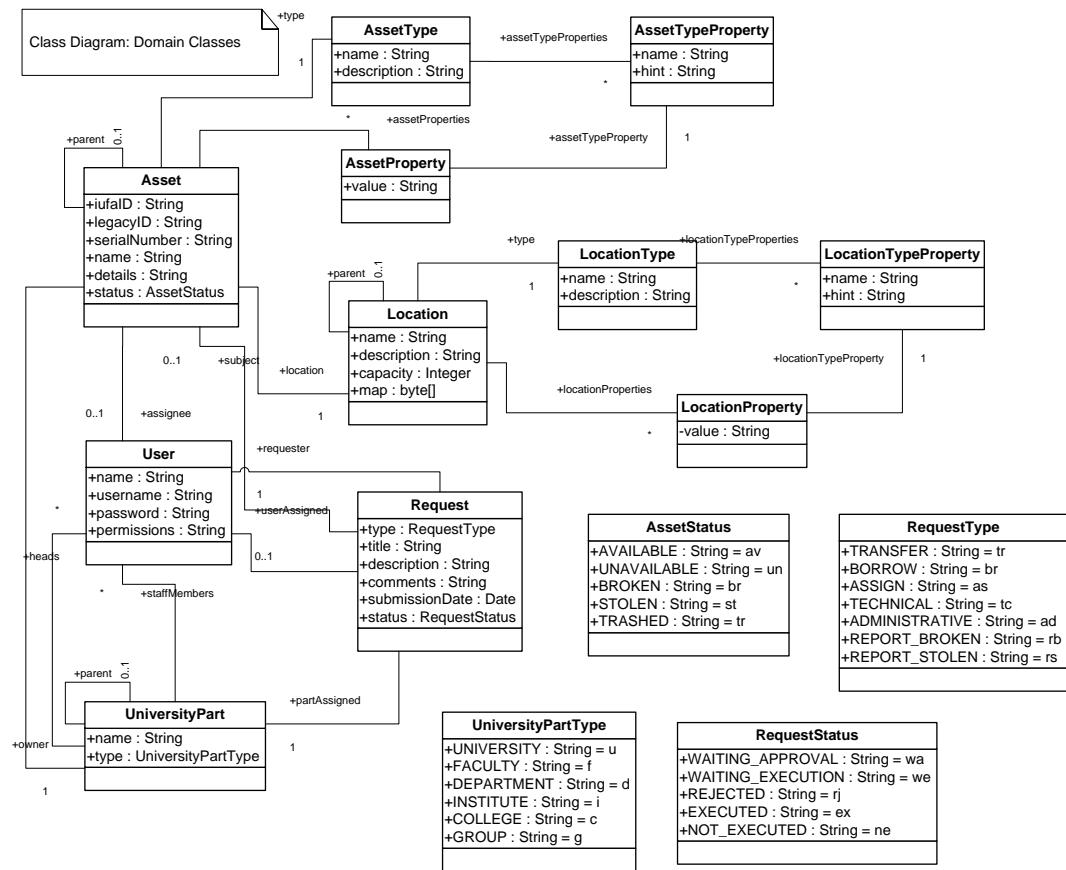


Entity Diagram of UUIS *Figure 5.1*

6 Class Diagram

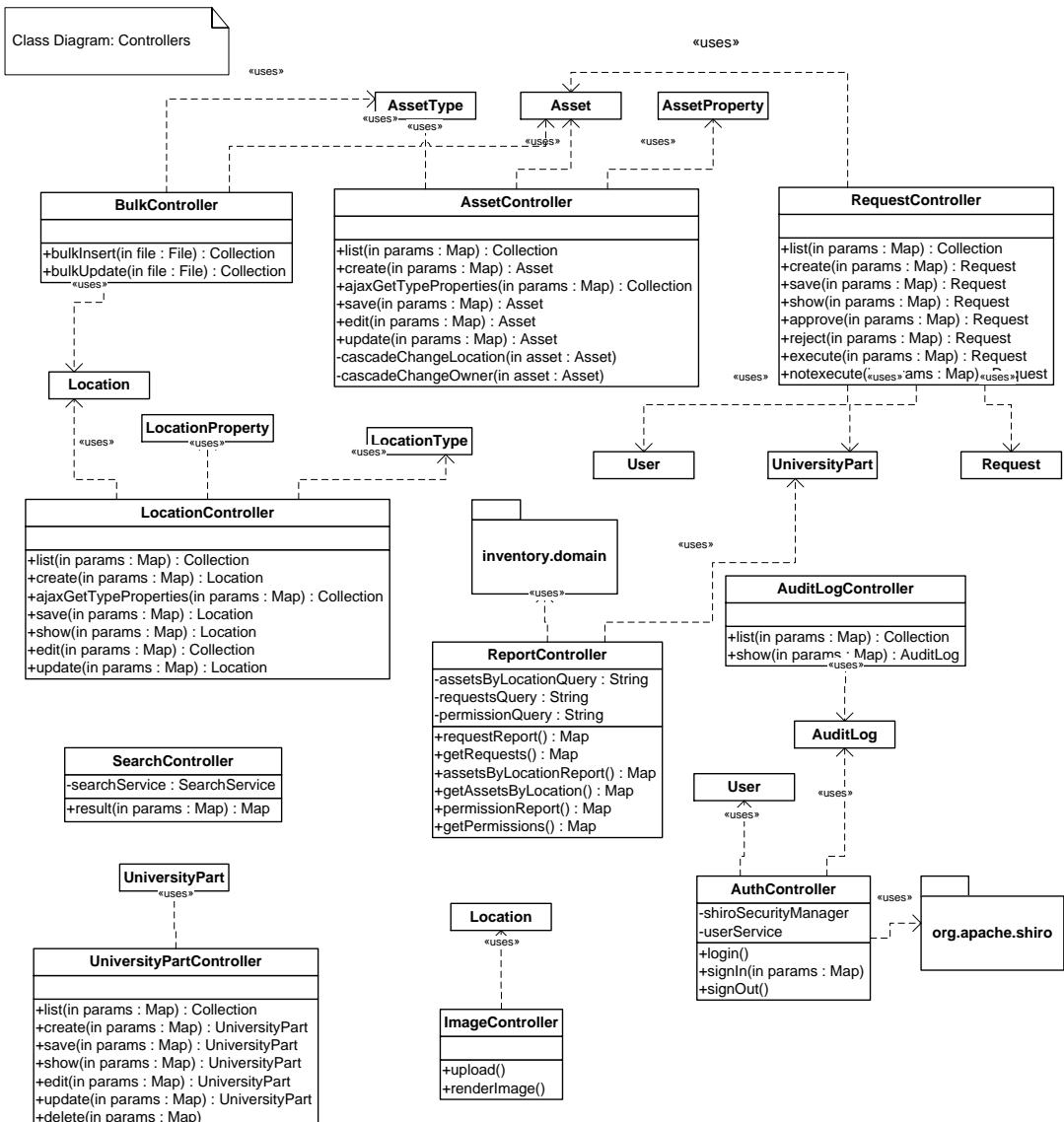
Grails controllers, domain classes and services have dynamic methods and properties that won't be depicted on the previous class diagrams in order to keep them clear. For example, controller classes provide methods such as render and redirect to deal with the application flow, and domain classes provide methods such as find, get, save and delete to deal with persistence. [11]

Domain Classes



Domain Classes *Figure 6.1*

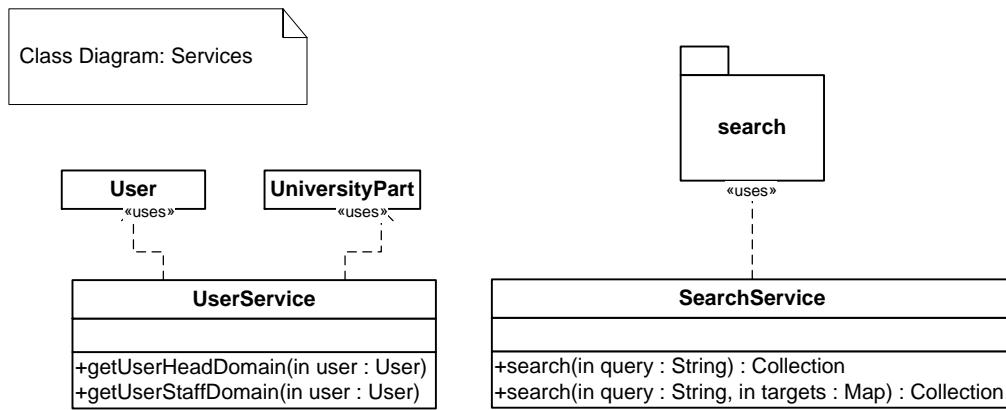
Controllers



Controllers *Figure 6.2*

The controllers actions shown as methods on the previous diagram actually need to be implemented as closures. [12]

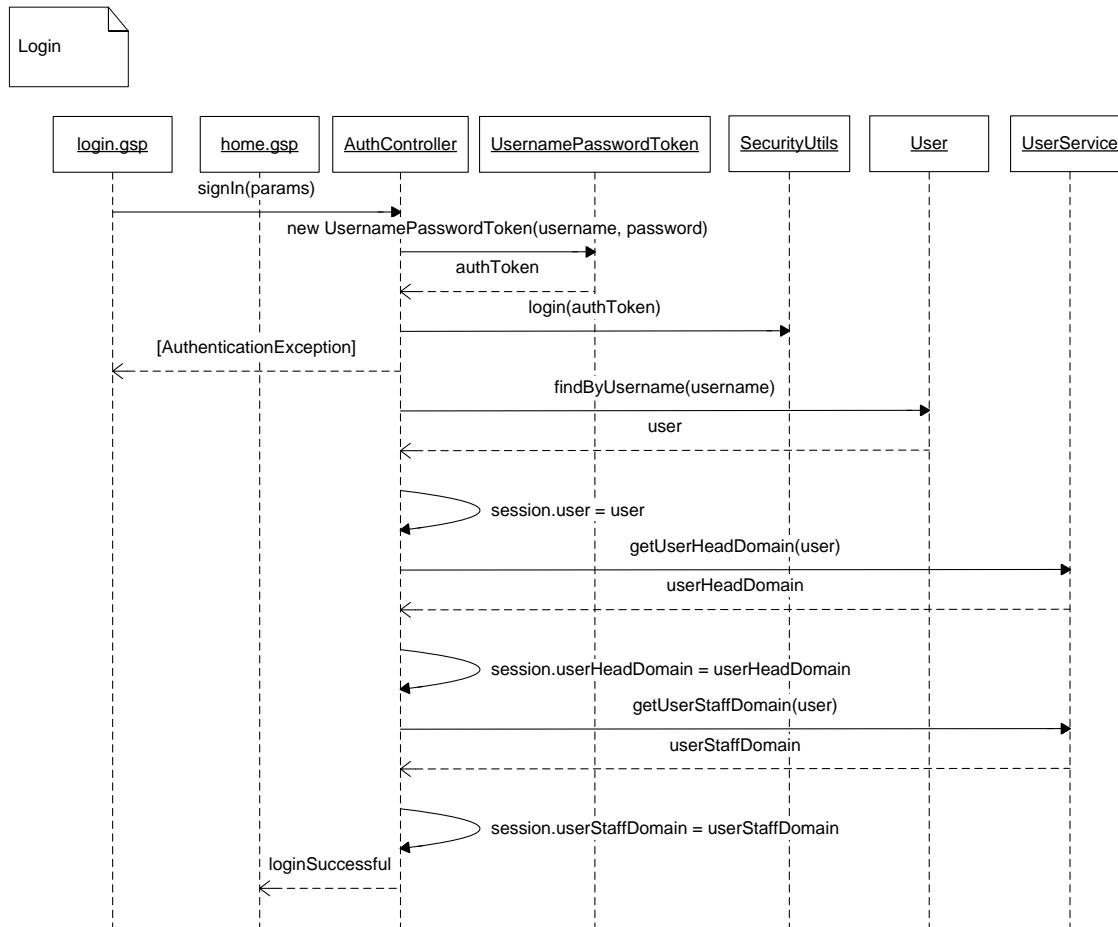
Services



Services *Figure 6.3*

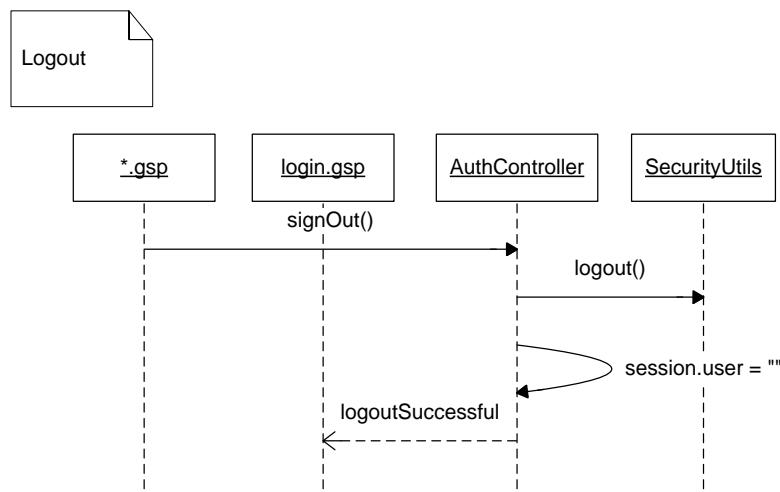
7 Sequence Diagrams

Login



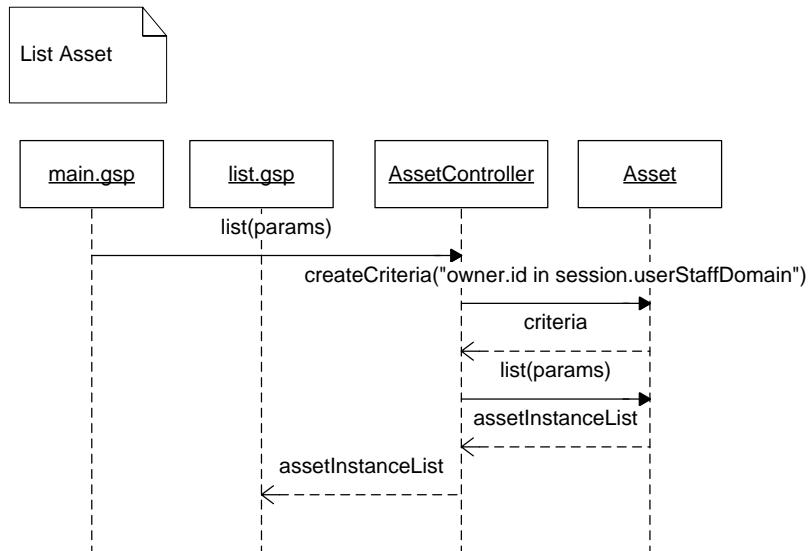
Sequence Diagram: Login *Figure 7.1*

Logout



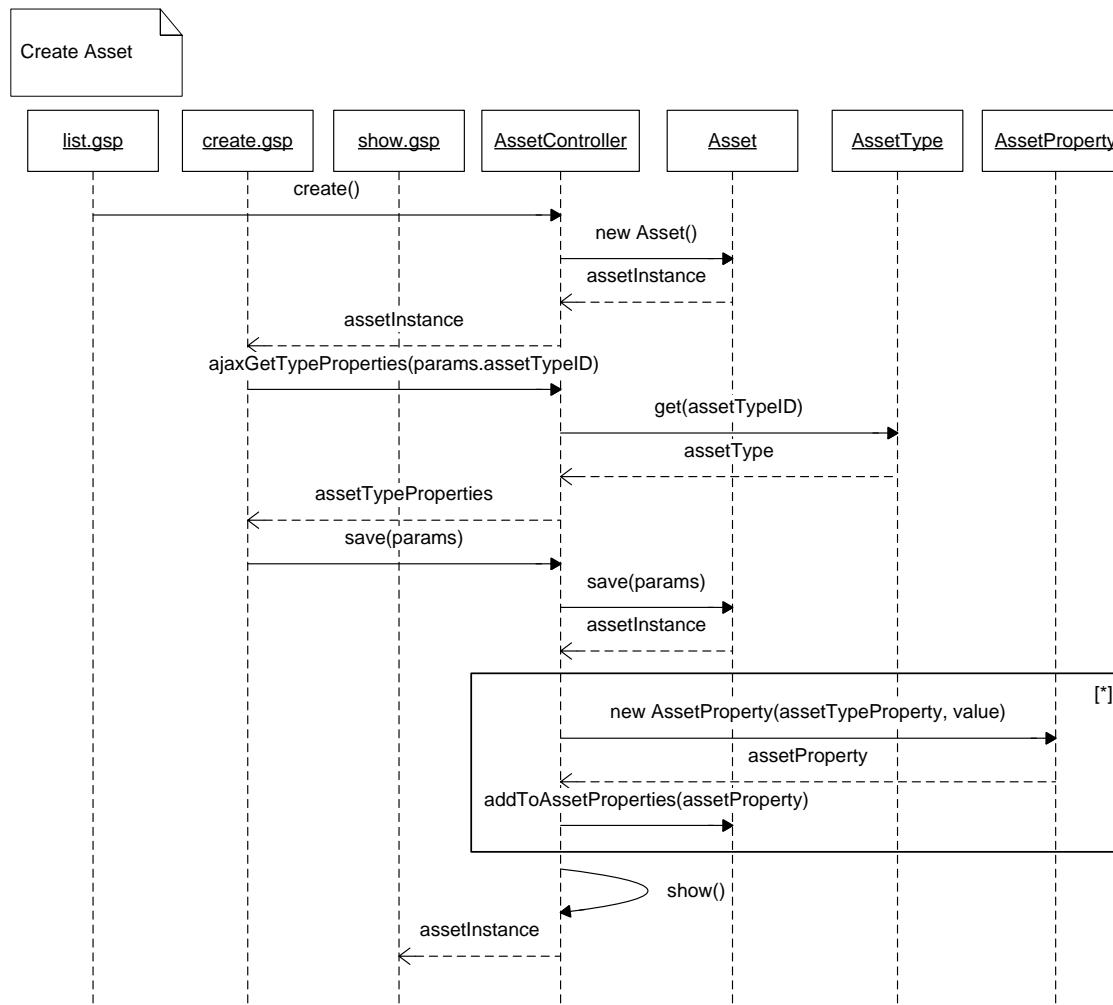
Sequence Diagram: Logout *Figure 7.2*

List Asset



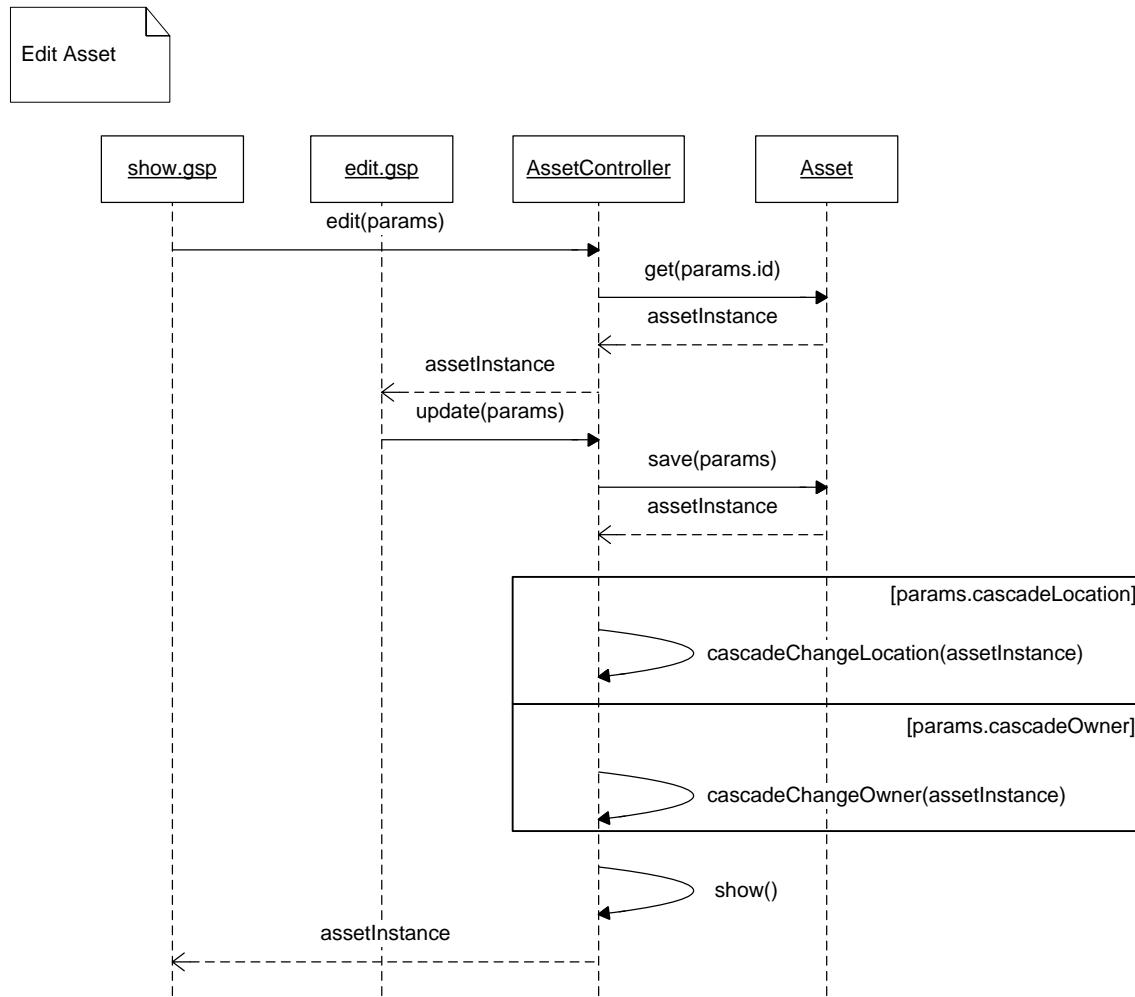
Sequence Diagram: List Asset *Figure 7.3*

Create Asset



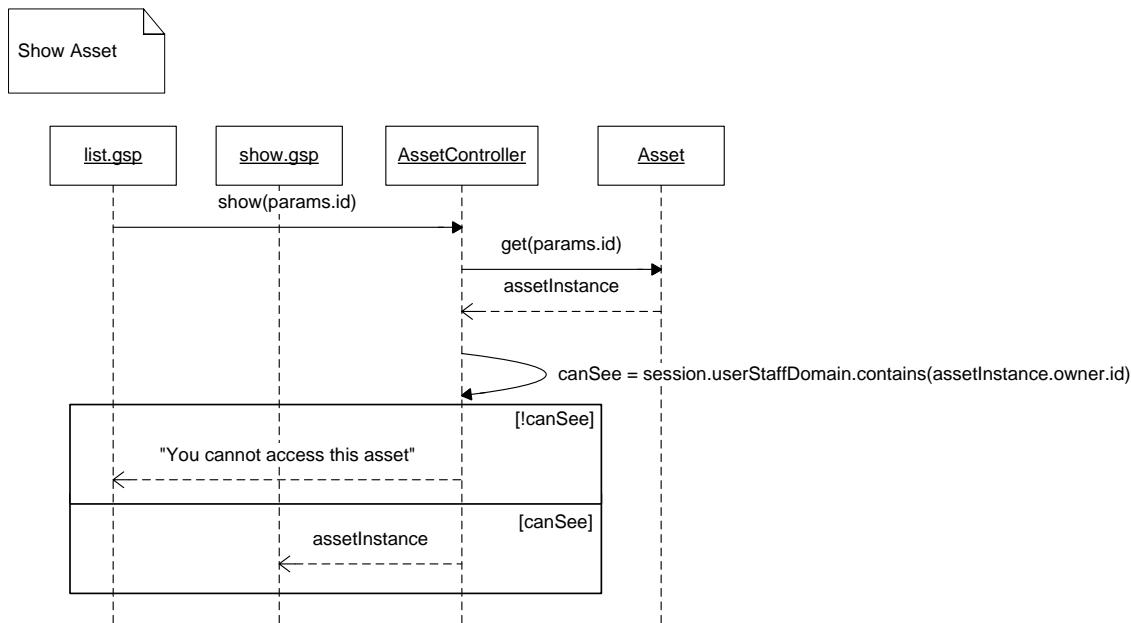
Sequence Diagram: Create Asset *Figure 7.4*

Edit Asset



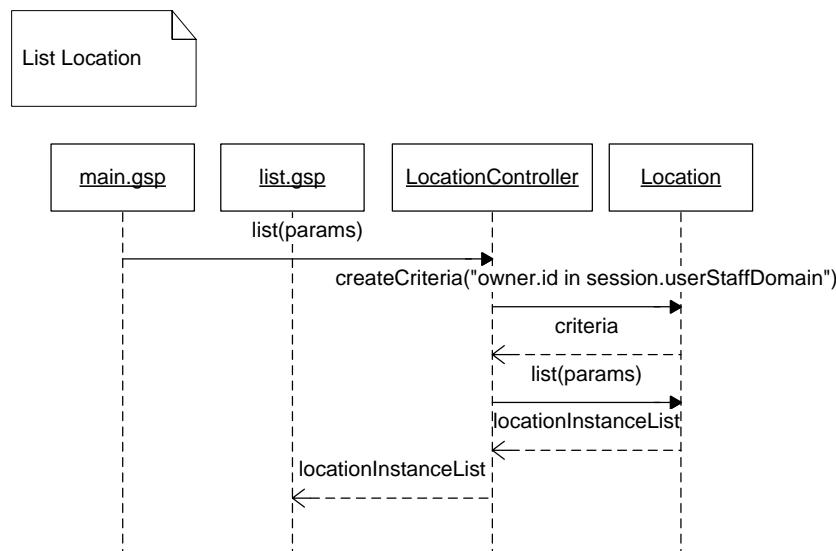
Sequence Diagram: Edit Asset *Figure 7.5*

Show Asset



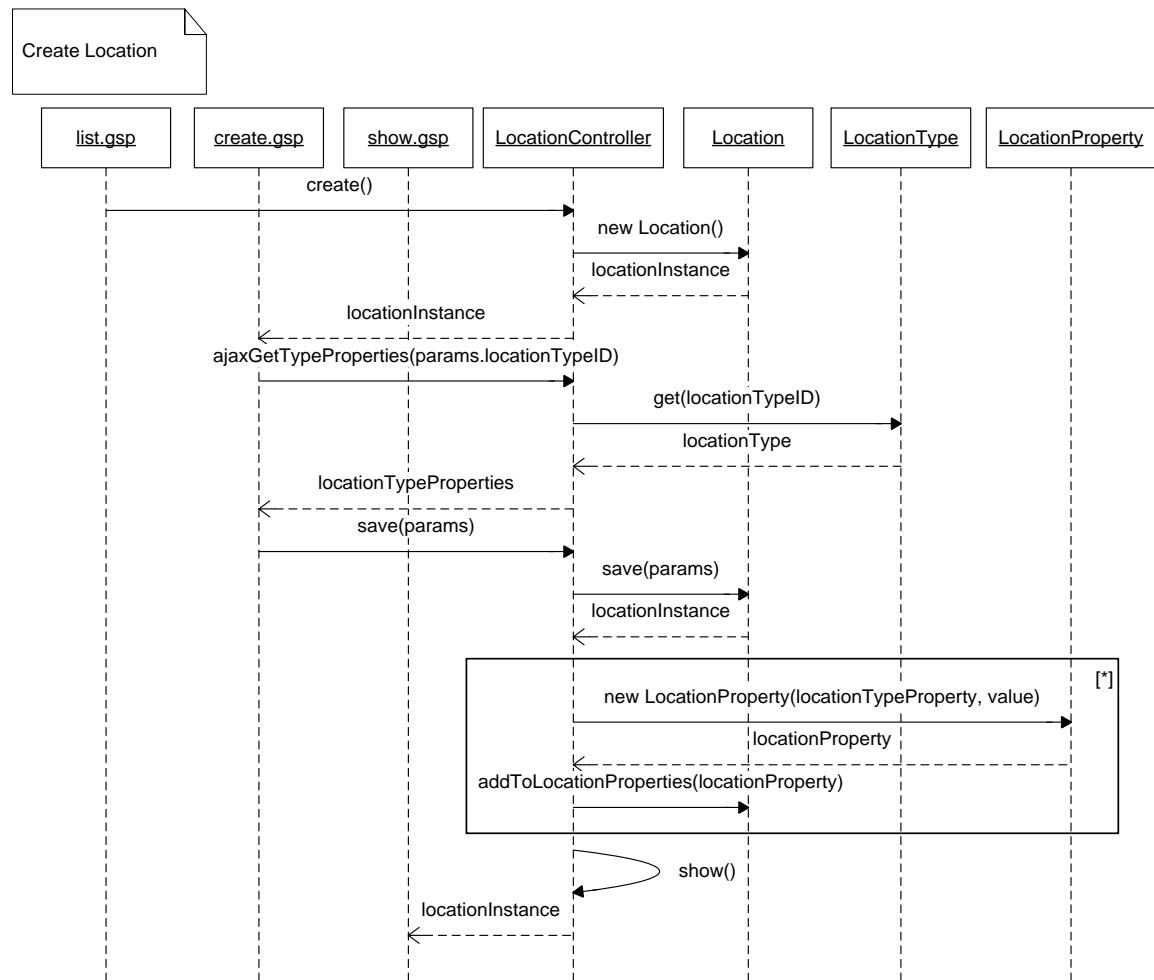
Sequence Diagram: Show Asset *Figure 7.6*

List Location



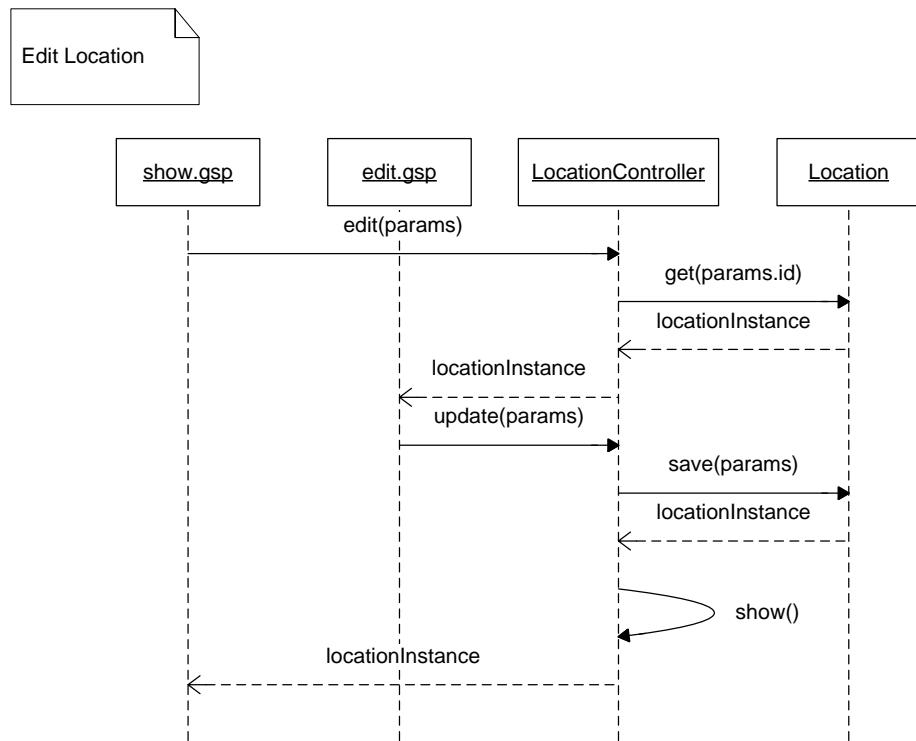
Sequence Diagram: List Location *Figure 7.7*

Create Location



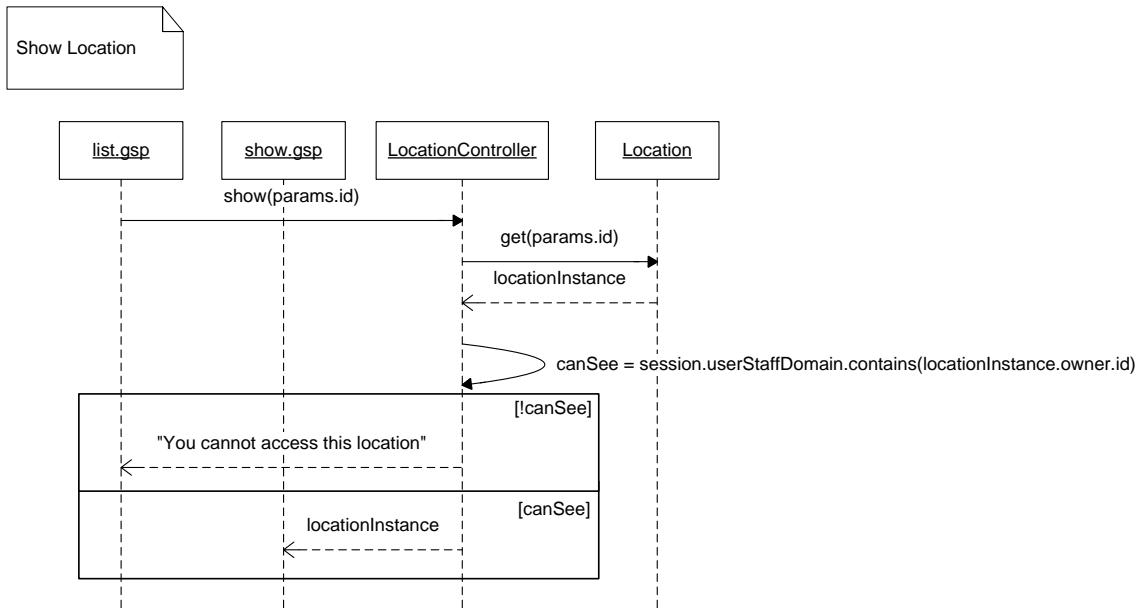
Sequence Diagram: Create Location *Figure 7.8*

Edit Location



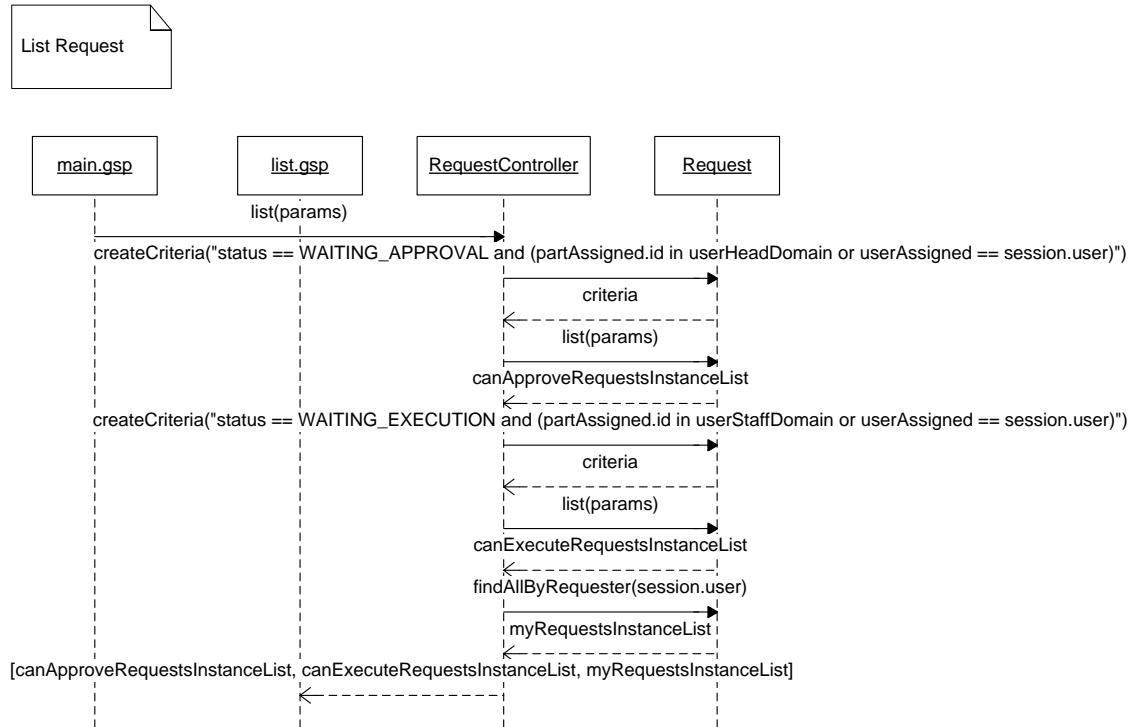
Sequence Diagram: Edit Location *Figure 7.9*

Show Location



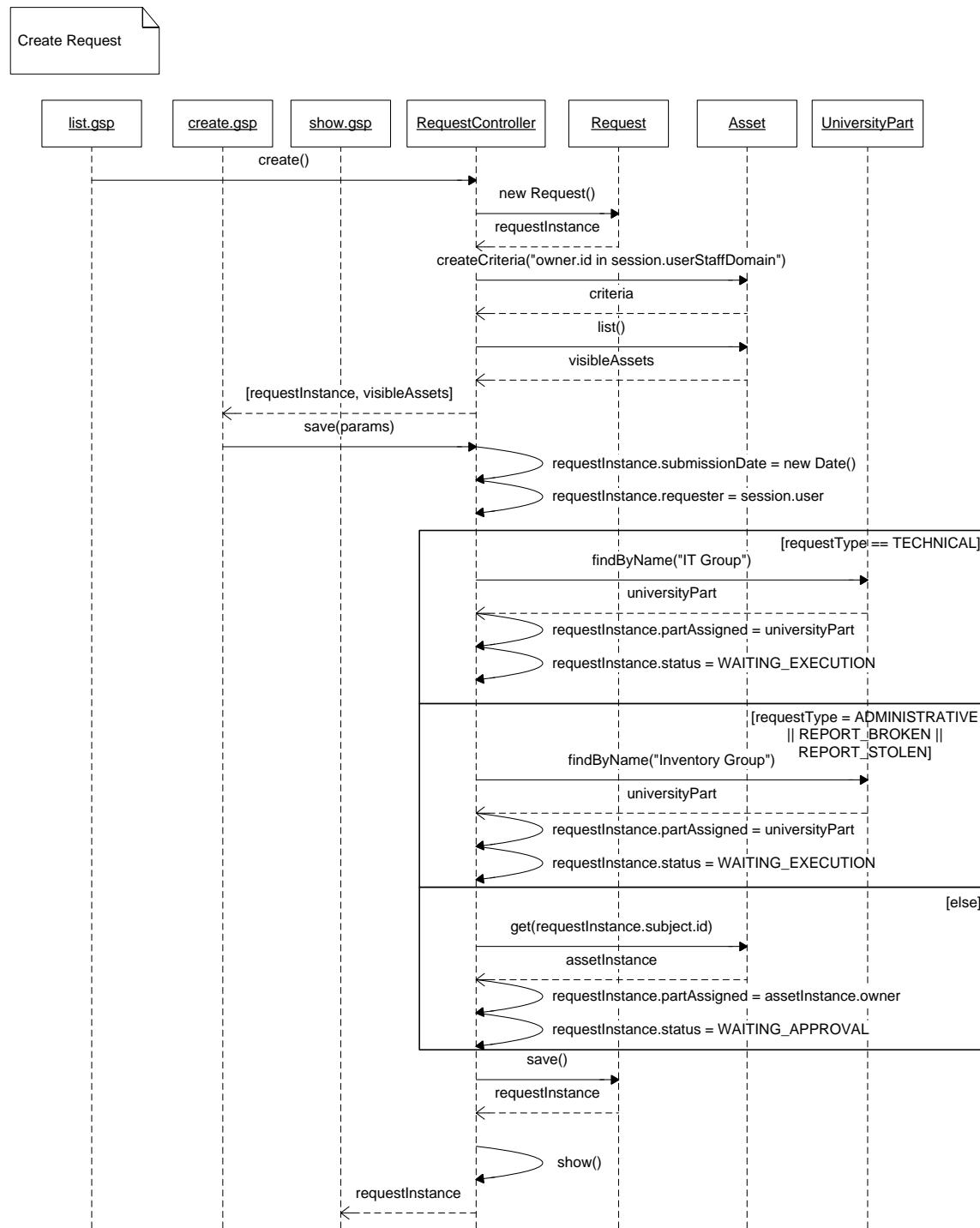
Sequence Diagram: Show Location *Figure 7.10*

List Request



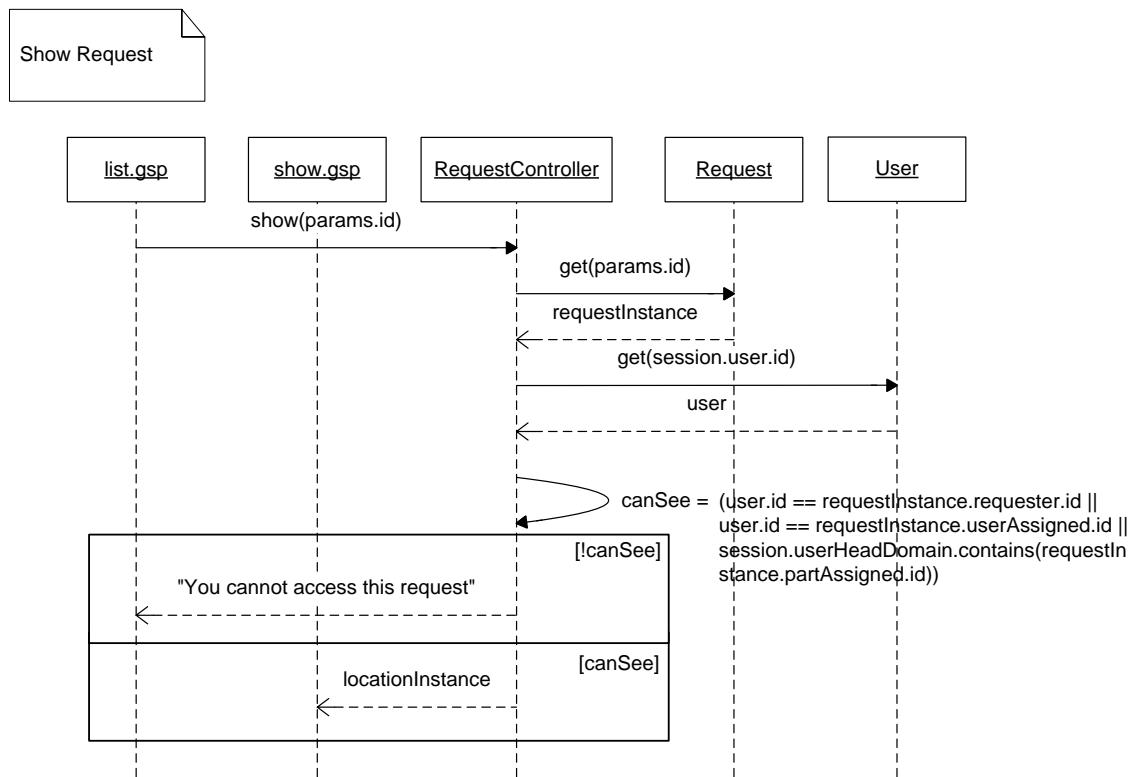
Sequence Diagram: List Request *Figure 7.11*

Create Request



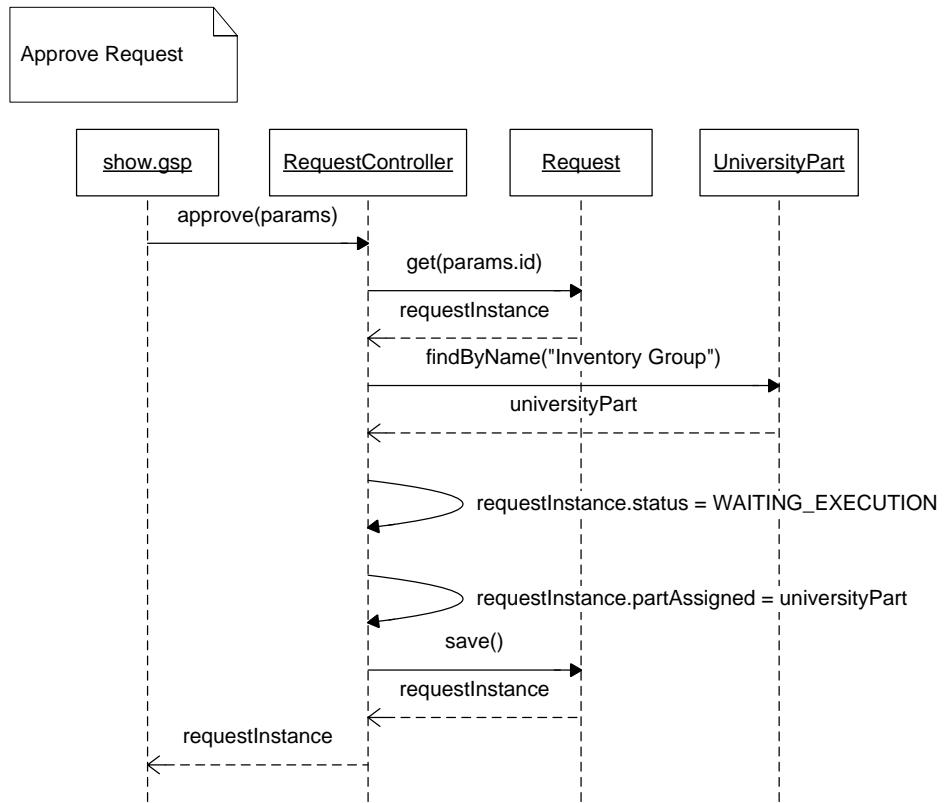
Sequence Diagram: Create Request *Figure 7.12*

Show Request



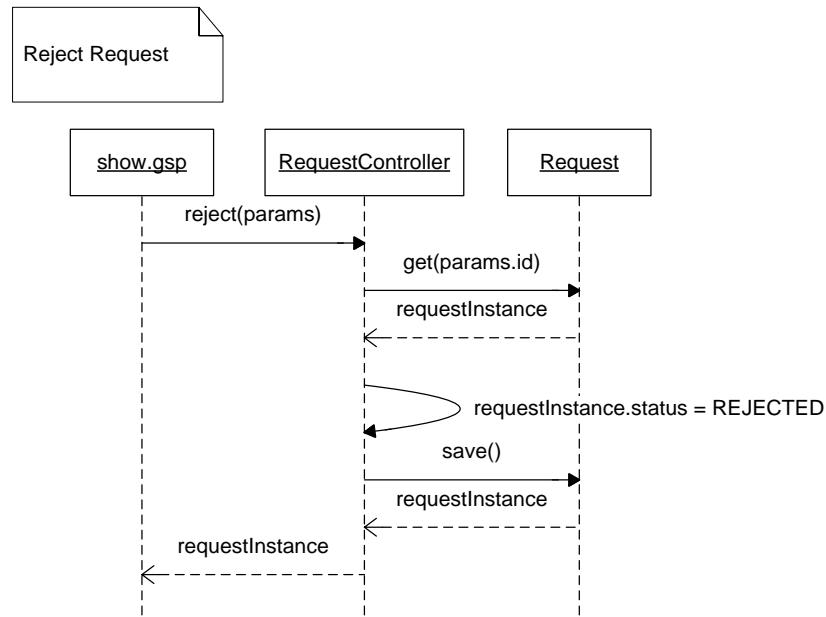
Sequence Diagram: Show Request *Figure 7.15*

Approve Request



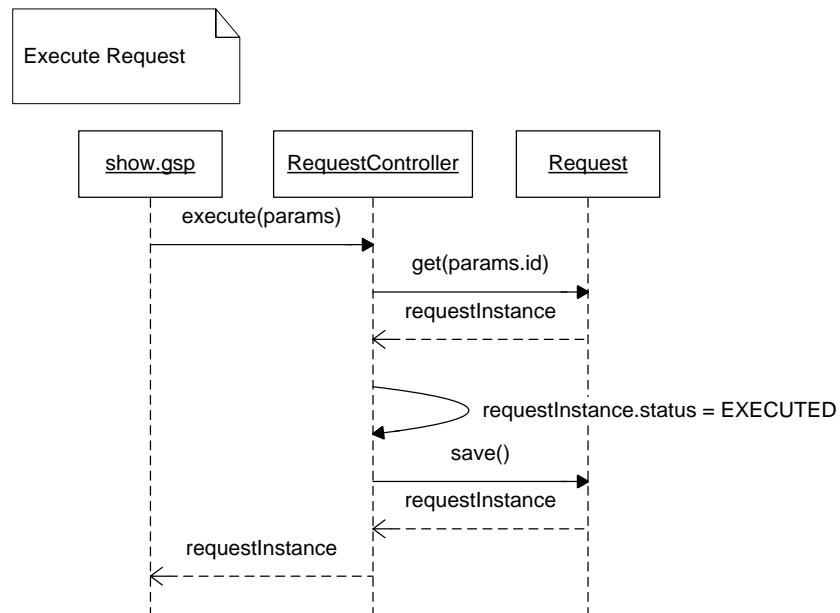
Sequence Diagram: Approve Request *Figure 7.14*

Reject Request



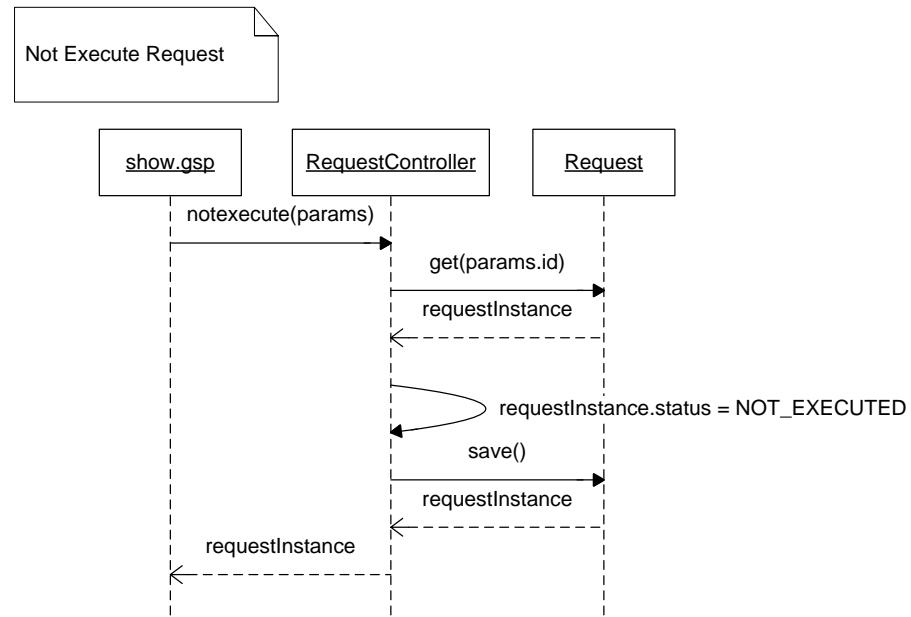
Sequence Diagram: Reject Request *Figure 7.15*

Execute Request



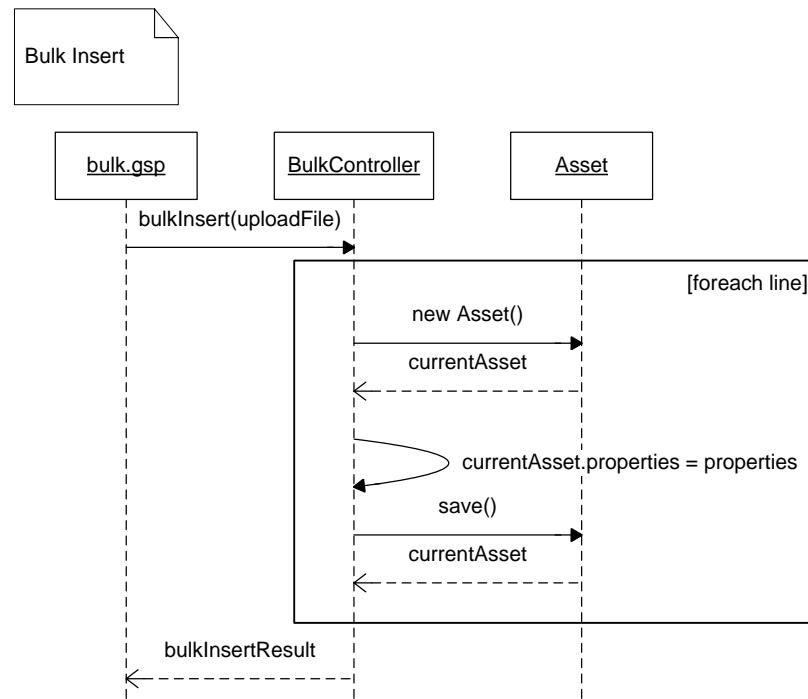
Sequence Diagram: Execute Request *Figure 7.16*

Not Execute Request



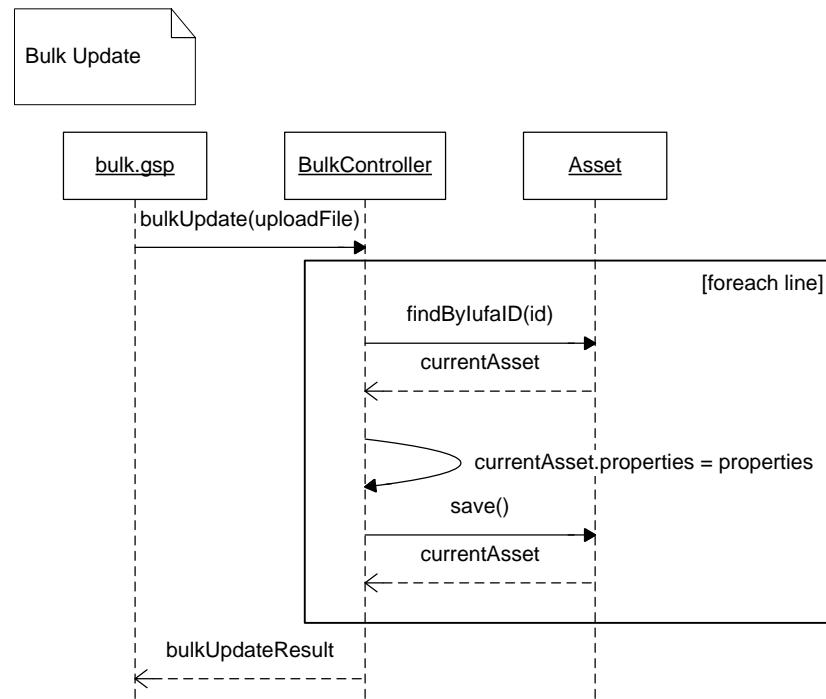
Sequence Diagram: Not Execute Request *Figure 7.17*

Bulk Insert



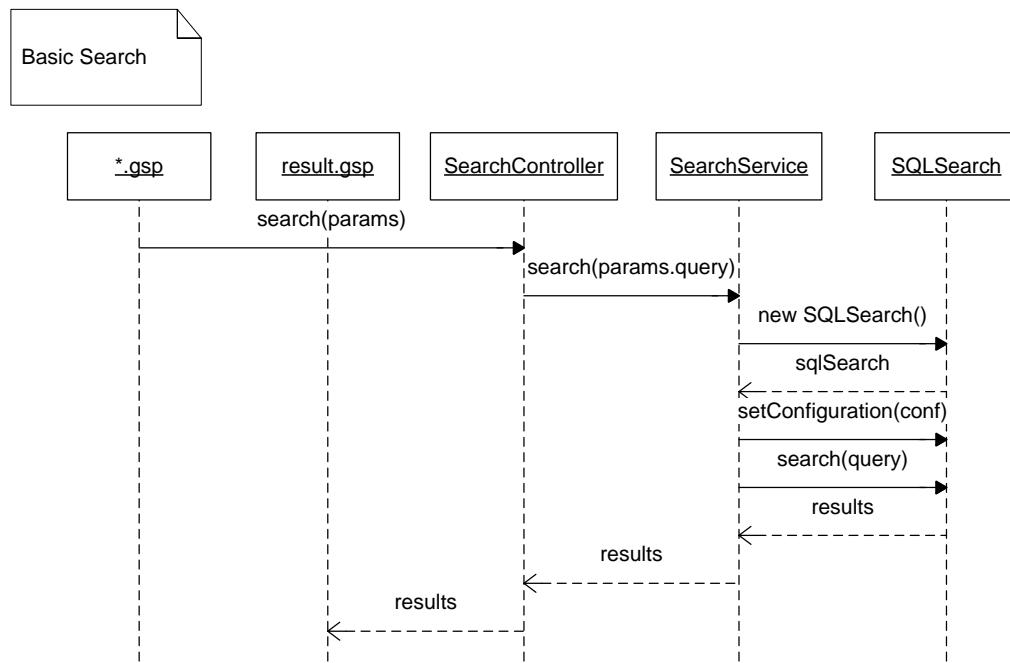
Sequence Diagram: Bulk Insert *Figure 7.18*

Bulk Update



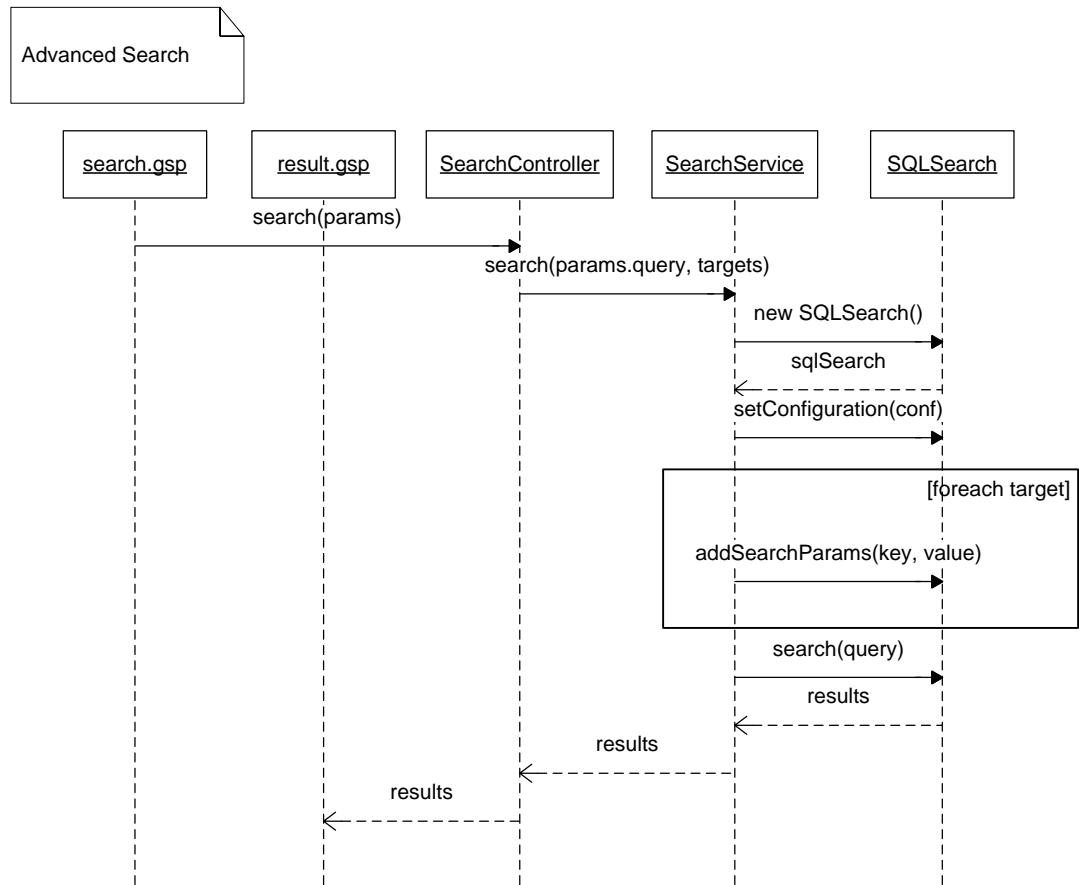
Sequence Diagram: Bulk Update *Figure 7.19*

Basic Search



Sequence Diagram: Basic Search *Figure 7.20*

Advanced Search



Sequence Diagram: Advanced Search *Figure 7.21*

8 Data Dictionary

Table	Column	Description	Is Required	Maximum Length	Type	Key
user_staff_membership_parts	university_part_id	University/Faculty/Department ID	NO		bigint(20)	PRI
	user_id	User ID	NO		bigint(20)	PRI
user_roles	role_id	Role ID	NO		bigint(20)	PRI
	user_id	User ID	NO		bigint(20)	PRI
user_permissions	user_id	User ID	YES		bigint(20)	MUL
	permissions_string	Action Permissions	YES	255	varchar(255)	
user_managed_parts	university_part_id	University/Faculty/Department ID	NO		bigint(20)	PRI
	user_id	User ID	NO		bigint(20)	PRI
user	id	User ID	NO		bigint(20)	PRI
	version	Changed veresion	NO		bigint(20)	
	username	User Login Name	NO	255	varchar(255)	UNI
	name	User First/Lasst Name	NO	255	varchar(255)	
	password_hash	Encrypted Password	NO	255	varchar(255)	
university_part	id	University/Faculty/Department ID	NO		bigint(20)	PRI
	version	Changed veresion	NO		bigint(20)	
	name	University/Faculty/Department Name	NO	255	varchar(255)	
	parent_id	University/Faculty/Department Belongs to	YES		bigint(20)	MUL
	type	University/Faculty/Department Type	NO	255	varchar(255)	
role_permissions	role_id	Role ID	YES		bigint(20)	MUL
	permissions_string	Action Permissions	YES	255	varchar(255)	
role	id	Role ID	NO		bigint(20)	PRI
	version	Changed veresion	NO		bigint(20)	
	name	Role Name	NO	255	varchar(255)	UNI
request	id	Request ID	NO		bigint(20)	PRI
	version	Changed veresion	NO		bigint(20)	
	requester_id	Submitted User ID	NO		bigint(20)	MUL
	status	Request Status	NO	255	varchar(255)	
	part_assigned_id	Assigned to University/Faculty/Department ID	NO		bigint(20)	MUL
	subject_id	Subject ID	YES		bigint(20)	MUL
	request_type	Request Type ID	NO	255	varchar(255)	
	submission_date	Submitted Date	NO		datetime	

	title	Title	NO	255	varchar(255)	
	user_assigned_id	Assigned to User ID	YES		bigint(20)	MUL
	description	Description	YES	255	varchar(255)	
	comments	Comments	YES	255	varchar(255)	
location_type_property	id	Location Type ID	NO		bigint(20)	PRI
	version	Changed veresion	NO		bigint(20)	
	name	Location Type Name	NO	255	varchar(255)	UNI
	hint	Location Type Hint	YES	255	varchar(255)	
location_type_location_type_properties	location_type_id	Location Type ID	NO		bigint(20)	PRI
	location_type_property_id	Location Type - Property ID	NO		bigint(20)	PRI
location_type	id	Location Type ID	NO		bigint(20)	PRI
	version	Changed veresion	NO		bigint(20)	
	description	Location Type Description	YES	255	varchar(255)	
	name	Location Type Name	NO	255	varchar(255)	UNI
location_property	id	Property ID	NO		bigint(20)	PRI
	version	Changed veresion	NO		bigint(20)	
	location_id	Location ID	NO		bigint(20)	MUL
	value	Property Value	NO	255	varchar(255)	
	location_type_property_id	Location Type - Property ID	NO		bigint(20)	MUL
location	id	Location ID	NO		bigint(20)	PRI
	version	Changed Veresion	NO		bigint(20)	
	assignee_id	Assiged to User ID	YES		bigint(20)	MUL
	parent_location_id	Location Belongs to	YES		bigint(20)	MUL
	type_id	Location Type	NO		bigint(20)	MUL
	description	Location Description	YES	255	varchar(255)	
	name	Location Name	NO	255	varchar(255)	
	map	Location Map	YES	4294967295	longblob	
	owner_id	University/Faculty/Department ID	NO		bigint(20)	MUL
audit_log	capacity	Capacity	NO		int(11)	
	id	Audit Log ID	NO		bigint(20)	PRI
	property_name	Property Name	YES	255	varchar(255)	
	last_updated	Last Updated	NO		datetime	
	old_value	Old Value	YES	255	varchar(255)	
	actor	Actor	YES	255	varchar(255)	
	uri	URL	YES	255	varchar(255)	
	new_value	New Value	YES	255	varchar(255)	
	persisted_object_version	Persisted Object Version	YES		bigint(20)	
	date_created	Date Created	NO		datetime	
	class_name	Class Name	YES	255	varchar(255)	

	event_name	Event Name	YES	255	varchar(255)	
	persisted_object_id	Persisted Object ID	YES		bigint(20)	
	version	Changed veresion	YES		bigint(20)	
asset_type_property	id	Location Type - Property ID	NO		bigint(20)	PRI
	version	Changed veresion	NO		bigint(20)	
	name	Asset Type - Property Name	NO	255	varchar(255)	
	hint	Hint	NO	255	varchar(255)	
	asset_type_id	Asset Type ID	YES		bigint(20)	MUL
asset_type_asset_type_properties	asset_type_property_id	Asset Type - Property ID	NO		bigint(20)	PRI
	asset_type_id	Asset Type ID	NO		bigint(20)	PRI
asset_type	id	Asset Type ID	NO		bigint(20)	PRI
	version	Changed veresion	NO		bigint(20)	
	description	Asset Type Description	YES	255	varchar(255)	
	name	Asset Type Name	NO	255	varchar(255)	
asset_property	id	Asset Property ID	NO		bigint(20)	PRI
	version	Changed veresion	NO		bigint(20)	
	asset_id	Asset ID	NO		bigint(20)	MUL
	value	Asset Value	NO	255	varchar(255)	
	asset_type_property_id	Asset Type - Property ID	NO		bigint(20)	MUL
asset	id	Asset ID	NO		bigint(20)	PRI
	version	Changed veresion	NO		bigint(20)	
	iufaid	Unit Asset ID in UUIS (Barcode)	YES	255	varchar(255)	UNI
	status	Asset Status	NO	255	varchar(255)	
	legacyid	Legacy ID	YES	255	varchar(255)	UNI
	location_id	Location ID	NO		bigint(20)	MUL
	assignee_id	Assiged to User ID	YES		bigint(20)	MUL
	parent_id	Group Asset ID	YES		bigint(20)	MUL
	serial_number	Serial Number	YES	255	varchar(255)	
	type_id	Asset Type ID	NO		bigint(20)	MUL
	details	Asset Details	YES	255	varchar(255)	
	name	Asset Name	NO	255	varchar(255)	
	owner_id	University/Faculty/Department ID	NO		bigint(20)	MUL

9 Time logs

	Bing	Robin	Deyvisson	Abdulrahman	Ali	Kanj	Max	Yuming
Week 1	0	0	0	0	0	0	0	0
Week 2	1	2	1	2	1	2	2	2
Week 3	2	7	3	2	2	8	3	3
Week 4	5	4	1	5	6	8	2	3
Week 5	5	5	1	6	2	6	5	3
Week 6	7	6	4	6	1	6	4	5
Week 7	7	6	2	7	4	5	4	4
Week 8	6	6	5	15	15	5	5	10
Week 9	15	7	10	4	3	7	10	5
Week 10	6	10	20	10	15	5	10	5
Week 11	11	16	15	12	15	13	16	10
Week 12	8	6	9	8	5	4	4	5
Week 13	9	4	6	5	10	8	7	7
Week 14	6	3	9	5	6	9	4	6
Week 15	7	8	9	8	6	5	6	8
Week 16	4	5	5	0	5	5	1	5
Week 17	5	5	5	5	1	6	1	1
Total	104	100	105	101	97	102	84	82

Time log of the team (in hours)

10 References

[1] Shari Lawrence Peeger and Joanne M. Atlee. Software Engineering: Theory and Practice. Prentice Hall, fourth edition, 2009. ISBN: 978-0-13-606169-4.

[2] Sybase PowerDesigner application version 15.1.0.2850

[3] Class diagram – Wikipedia

http://en.wikipedia.org/wiki/Class_diagram

[4] Sequence Diagram - Wikipedia

http://en.wikipedia.org/wiki/Sequence_diagram

[5] Requirement Document of Unified University Inventory System

[6] Source Code in Subversion - <https://comp5541-team4.svn.sourceforge.net/svnroot/comp5541-team4>

[7] Barcode Generator: <http://www.barcodesinc.com/generator/index.php>

[8] Yahoo UI: <http://developer.yahoo.com/yui/>

[9] Grails Tutorial: <http://www.grails.org/Tutorials>

[10] Development Standards and Guidelines

[11] Grails Dynamic Methods Reference:
<http://www.grails.org/Dynamic+Methods+Reference>

[12] Groovy Closures:
<http://groovy.codehaus.org/Closures>

Appendix I: User Guild Document

System Requirements

You may run the system web interface application any OS including Windows XP, Windows Vista, Windows 7 MAC OS, or Unix using IE7 or higher Firefox ,Chrome, Opera or Safari

Access to the web application

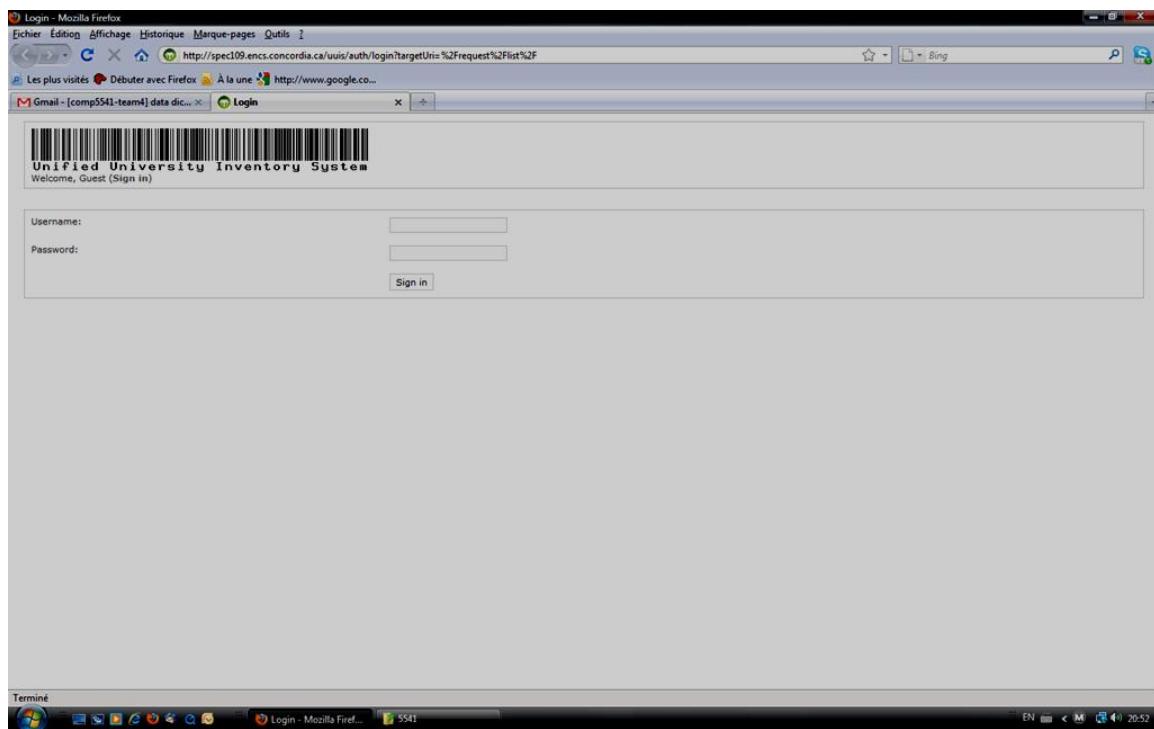
Any user can having internet connection and using one the listed browsers can access the web interface application using the following link: <http://spec109.elps.concordia.ca/uuis/>

Login

The access to the application is restricted to authorized users only, each user should know his user name and password

Any user must be authenticated to be able to use the application

Login is the first page displayed when you access the application



Application main page

After authentication this page change according to user permissions

Student and professor can only create requests

For any administrative level user this page is divided into 3 sections the main menu at the left side, sub menu at the middle and search menu at the right side

By default the assets page is displayed it contains 3 lists:

1. Requests waiting for approval: includes any request that this administrator can approve
2. Requests waiting for execution: any approved requests pass from waiting for approval to waiting for execution when it is approved, when an asset is picked up the data update is made
3. My Request contains the request that he use made

The screenshot shows a web browser window titled "Request List - Mozilla Firefox". The address bar displays the URL <http://spec109.enccs.concordia.ca/uuis/request/list/>. The page content is for the "Unified University Inventory System". A sidebar on the left contains links for REQUESTS, ASSETS, BULK LOAD, LOCATIONS, UNIVERSITY STRUCTURE, SEARCH, REPORTS, USERS & PERMISSIONS, and AUDITING. The main area shows three sections: "Requests Waiting for Approval" (No requests available), "Requests Waiting for Execution" (No requests available), and "My Requests". The "My Requests" section contains a table with one row:

ID	Title	Request Type	Subject	Description	Status
1	Request 01	TRANSFER	UFAID000000000001	Transfer now	REJECTED

Approving a request

An inventory admin having the permission to approve or reject requests

1. Click the request details are displayed in as shown in the following screen
2. Click Approve

The screenshot shows a Firefox browser window displaying the 'Show Request' page of the 'Unified University Inventory System'. The URL is <http://spec109.enics.concordia.ca/uuis/request/show/1>. The page title is 'Show Request'. On the left, a sidebar menu includes 'REQUESTS', 'ASSETS', 'BULK LOAD', 'LOCATIONS', 'UNIVERSITY STRUCTURE', 'SEARCH', 'REPORTS', 'USERS & PERMISSIONS', and 'AUDITING'. The main content area displays a request with the following details:

Id	1
Title	Request 01
Request Type	TRANSFER
Subject	IUFAID000000000001
Description	Transfer now
Comments	Transfer this item to my department
Requester	Dave Gray
Status	REJECTED
Part Assigned	Inventory Group
User Assigned	
Submission Date	2010-04-17 08:43:59 EDT

Below the table are four buttons: 'Approve', 'Reject', 'Mark as executed', and 'Mark as not executed'. At the bottom of the page, there is a search bar with 'Search' and 'Submit' buttons, and a link to 'Advanced search'.

The request is transferred to waiting for execution list

The screenshot shows a Firefox browser window displaying the 'Request List' page of the 'Unified University Inventory System'. The URL is <http://spec109.enics.concordia.ca/uuis/request/list>. The page title is 'Request List'. The sidebar menu is identical to the previous screenshot. The main content area shows a message 'Request approved' in blue. Below it, there are two sections: 'Requests Waiting for Approval' (which is empty) and 'Requests Waiting for Execution'. The 'Requests Waiting for Execution' section contains one entry:

Id	Title	Request Type	Subject	Description	Status
1	Request 01	TRANSFER	IUFAID000000000001	Transfer now	WAITING_EXECUTION

Below this is a section titled 'My Requests' with a single entry:

Id	Title	Request Type	Subject	Description	Status
1	Request 01	TRANSFER	IUFAID000000000001	Transfer now	WAITING_EXECUTION

Rejecting Request

1. Click on the request
2. Click Reject

The screenshot shows the UUIS Request List page. The sidebar on the left includes links for REQUESTS, ASSETS, BULK LOAD, LOCATIONS, UNIVERSITY STRUCTURE, SEARCH, REPORTS, USERS & PERMISSIONS, and AUDITING. The main content area has a header 'REQUESTS Waiting for Approval' with the message 'No requests available'. Below it is another section 'Requests Waiting for Execution' with the same message. A table titled 'My Requests' is present, showing one row:

ID	Title	Request Type	Subject	Description	Status
1	Request 01	TRANSFER	IUIAID0000000001	Transfer now	REJECTED

Executed Request Form Waiting For Execution List

1. Click the request
2. Click the reject mark as executed

Request is removed from the list

The screenshot shows a Mozilla Firefox browser window with the URL <http://spec109.encs.concordia.ca/uuis/request/list>. The page title is "Request List". A sidebar on the left contains links for REQUESTS, ASSETS, BULK LOAD, LOCATIONS, UNIVERSITY STRUCTURE, SEARCH, REPORTS, USERS & PERMISSIONS, and AUDITING. The main content area displays a message "Request marked as executed" and two sections: "Requests Waiting for Approval" and "Requests Waiting for Execution", both showing "No requests available". Below these is a table titled "My Requests" with one row:

ID	Title	Request Type	Subject	Description	Status
1	Request 01	TRANSFER	IUFAID0000000001	Transfer now	EXECUTED

Creating a New Basic Request

1. Click the button New request
2. Type a request description in the comment box
3. Click create

The screenshot shows a Mozilla Firefox browser window with the URL <http://spec109.encs.concordia.ca/uuis/request/create>. The page title is "Create Request". A sidebar on the left contains links for REQUESTS, ASSETS, BULK LOAD, LOCATIONS, UNIVERSITY STRUCTURE, SEARCH, REPORTS, USERS & PERMISSIONS, and AUDITING. The main content area displays a message "Request created successfully" and a "Create Request" form. The form fields are:

- Title: [empty input]
- Request Type: TRANSFER
- Subject/Asset: General request
- Description: [empty input]
- Comments: [large text area]

At the bottom of the form is a "Create" button.

Creating a New Advanced Request

1. Click the button New request
2. Type a request description in the comment box
3. Select request type
4. Select required assets
5. Click Create

The screenshot shows a web application for creating requests. On the left, there's a sidebar with navigation links: REQUESTS, ASSETS, BULK LOAD, LOCATIONS, UNIVERSITY STRUCTURE, SEARCH, REPORTS, USERS & PERMISSIONS, and AUDITING. The main content area is titled 'Create Request'. It contains several input fields:

- Title: An empty text input field.
- Request Type: A dropdown menu set to 'TRANSFER', with other options like 'BORROW', 'ASSIGN', 'REPORT BROKEN', and 'REPORT STOLEN' visible.
- Subject/Asset: A dropdown menu set to 'CHANGER', with other options like 'BORROW', 'ASSIGN', 'REPORT BROKEN', and 'REPORT STOLEN' visible.
- Description: A dropdown menu set to 'TECHNICAL', with other options like 'ADMINISTRATIVE', 'REPORT BROKEN', and 'REPORT STOLEN' visible.
- Comments: A large text area for comments, currently empty.

A 'Create' button is located at the bottom of the form. The browser's address bar shows the URL <http://spec109.encc.concordia.ca/uuis/request/create>. The title bar of the browser window also displays 'Create Request - Mozilla Firefox'.

Display Assets List

1. Click Asset on left menu

ID	Idfa ID	Legacy ID	Type	Name	Details	Owner	Location
1	IUFAID0000000001	eewqr23232	Desk	ear	asd	Department of Civil Engineering	JB-403
20	IUFAID0010000020	10000020	Computer	xanthic.concordia.ca	Dell PC	Department of Civil Engineering	JB-403
21	IUFAID0010000021	10000021	Computer	xanthin.concordia.ca	Dell PC	Department of Civil Engineering	JB-403
22	IUFAID0010000022	10000022	Computer	xantinne.concordia.ca	Dell PC	Department of Civil Engineering	JB-403
23	IUFAID0010000023	10000023	Computer	xanthines.concordia.ca	Dell PC	Department of Civil Engineering	JB-403
24	IUFAID0010000024	10000024	Computer	xantnhs.concordia.ca	Dell PC	Department of Civil Engineering	JB-403
25	IUFAID0010000025	10000025	Computer	xanthoma.concordia.ca	Dell PC	Department of Civil Engineering	JB-403
26	IUFAID0010000026	10000026	Computer	xanthomas.concordia.ca	Dell PC	Department of Civil Engineering	JB-403
27	IUFAID0010000027	10000027	Computer	xanthomata.concordia.ca	Dell PC	Department of Civil Engineering	JB-403
28	IUFAID0010000028	10000028	Computer	xanthone.concordia.ca	Dell PC	Department of Civil Engineering	JB-403

Create New Asset

1. Click Asset on left menu
2. Click New Asset
3. Fill all the required data and click Create

Legacy ID:

Type:

Serial Number:

Name:

Details:

Location:

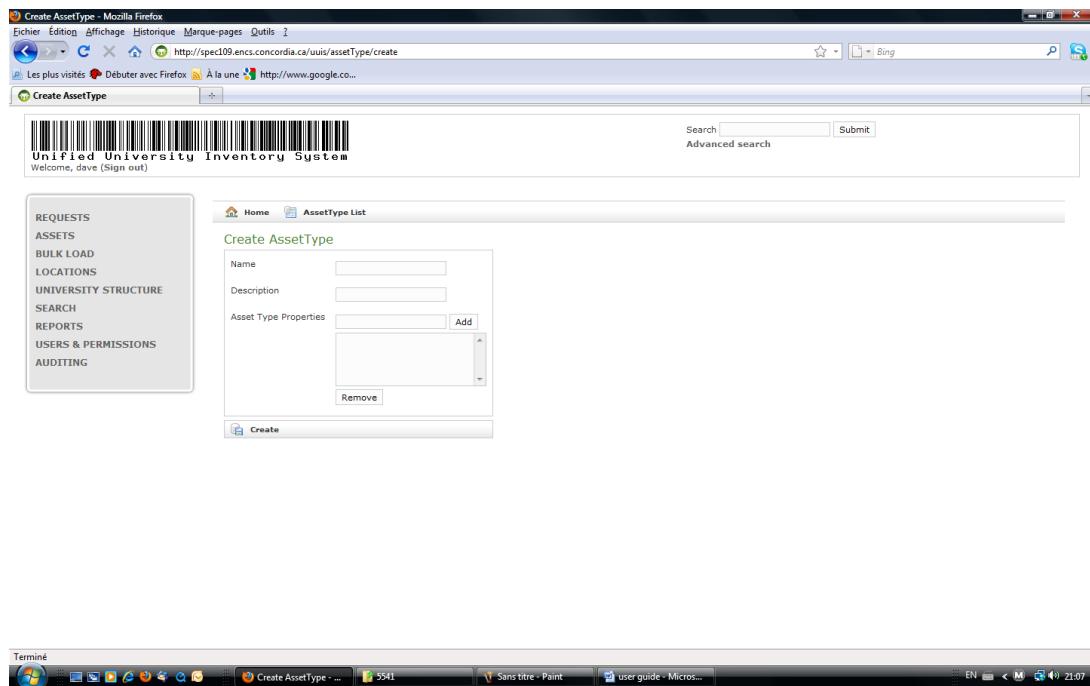
Status:

Parent:

Owner:

Create New Asset Type (only IT Administrator)

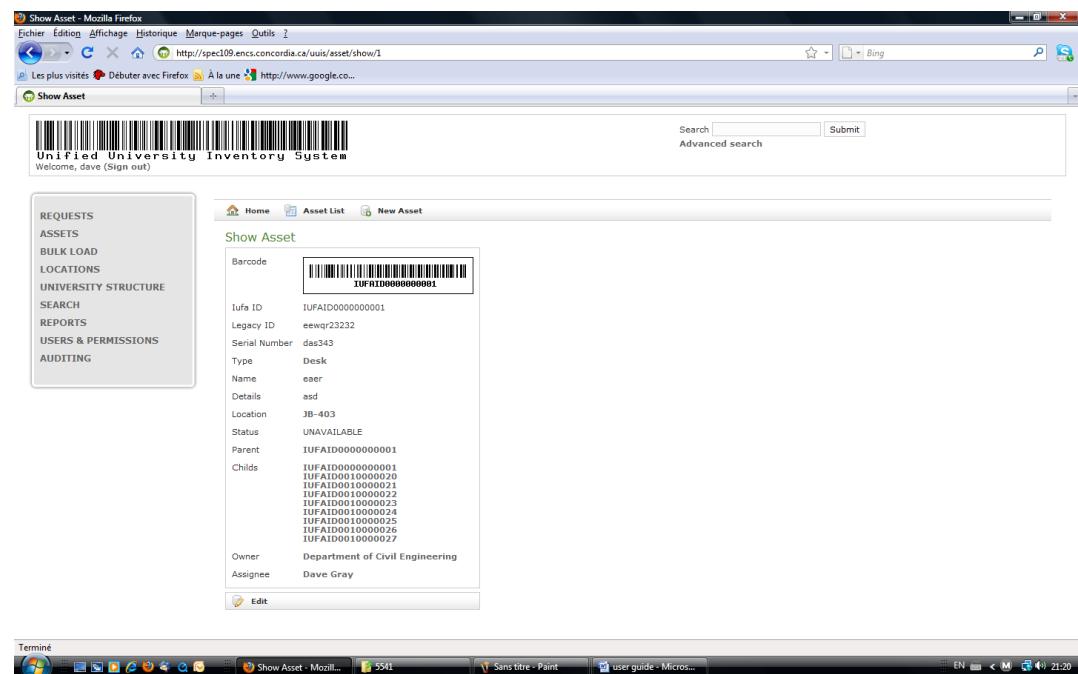
1. Click Asset on left menu
2. Click New Asset Type
3. Fill all the required data and click Create



The screenshot shows the 'Create AssetType' page of the Unified University Inventory System. The main content area contains a form titled 'Create AssetType' with fields for 'Name' (a text input box), 'Description' (a text input box), and 'Asset Type Properties' (a list box containing several items, with 'ssd' selected). Below the list box are 'Add' and 'Remove' buttons. At the bottom of the form is a 'Create' button. To the left of the main content is a sidebar with links to 'REQUESTS', 'ASSETS', 'BULK LOAD', 'LOCATIONS', 'UNIVERSITY STRUCTURE', 'SEARCH', 'REPORTS', 'USERS & PERMISSIONS', and 'AUDITING'. The browser's address bar shows the URL <http://spec109.encs.concordia.ca/uuis/assetType/create>. The status bar at the bottom of the screen shows 'Terminé' and the time '21:07'.

Displaying Asset properties

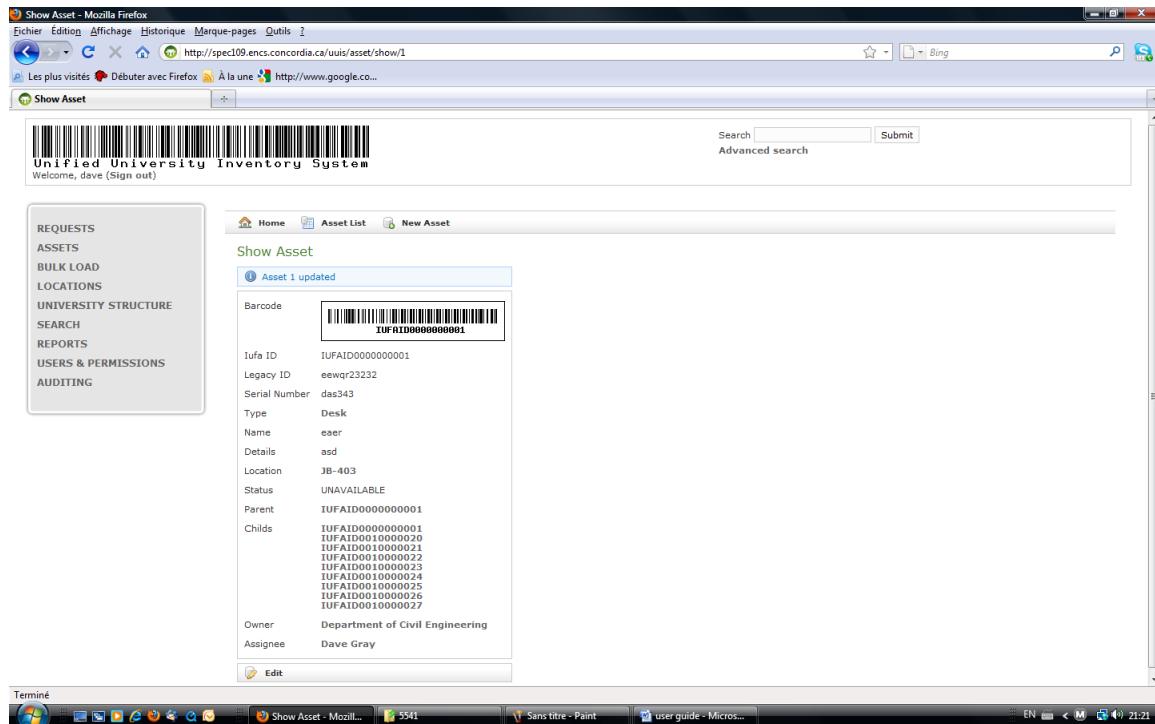
1. Click the Asset from left Menu
2. Click the Asset from the Assets list



The screenshot shows the 'Show Asset' page of the Unified University Inventory System. The main content area displays a table of asset properties. The properties listed are: Iufs ID (IUFAD000000000001), Legacy ID (eewqr23232), Serial Number (das343), Type (Desk), Name (eear), Details (ssd), Location (JB-403), Status (UNAVAILABLE), Parent (IUFAD000000000001), Childs (IUFAD000000000001, IUFAD00100000020, IUFAD00100000021, IUFAD00100000022, IUFAD00100000023, IUFAD00100000024, IUFAD00100000025, IUFAD00100000026, IUFAD00100000027), Owner (Department of Civil Engineering), and Assignee (Dave Gray). Below the table is an 'Edit' button. To the left of the main content is a sidebar with links to 'REQUESTS', 'ASSETS', 'BULK LOAD', 'LOCATIONS', 'UNIVERSITY STRUCTURE', 'SEARCH', 'REPORTS', 'USERS & PERMISSIONS', and 'AUDITING'. The browser's address bar shows the URL <http://spec109.encs.concordia.ca/uuis/asset/show/1>. The status bar at the bottom of the screen shows 'Terminé' and the time '21:20'.

Change Asset properties

1. Click the Asset from left Menu
2. Click the Asset from the Assets list
3. Click Edit asset
4. Change properties and click Update



Bulk load

Allow the faster creation or updating of the Assets or locations by using bulk entry form a file that must contains a header in the first line specifying data order and data records arranged according to the header

Bulk Insert: used to add or create new assets

1. Click browse
2. Select the file
3. Click upload file

Bulk update: used to update assets

1. Click browse
2. Select the file
3. Click Upload file

The screenshot shows the 'Bulk Load' page of the Unified University Inventory System. The left sidebar contains links for REQUESTS, ASSETS, BULK LOAD, LOCATIONS, UNIVERSITY STRUCTURE, SEARCH, REPORTS, USERS & PERMISSIONS, and AUDITING. The main content area has sections for 'Bulk Insert' and 'Bulk Update', each with a 'Download example file' link and a file upload input field. A search bar at the top right includes 'Search' and 'Submit' buttons.

Display Location list

1. Click Location left menu

The screenshot shows the 'Location List' page of the Unified University Inventory System. The left sidebar contains the same set of links as the Bulk Load page. The main content area displays a table titled 'Location List' with columns for Id, Type, Name, Description, Owner, and Parent Location. The table lists 10 entries, mostly floors and rooms under the 'John Budweiser Building'. Navigation buttons at the bottom of the table allow for page selection.

ID	Type	Name	Description	Owner	Parent Location
1	Building	John Budweiser Building		Faculty of Arts and Science	
2	Floor	JB Floor 1		Department of Biology	John Budweiser Building
3	Floor	JB Floor 2		Department of Biology	John Budweiser Building
4	Floor	JB Floor 3		Department of Sociology	John Budweiser Building
5	Floor	JB Floor 4		Department of Sociology	John Budweiser Building
6	Room	JB-101		Department of Biology	JB Floor 1
7	Room	JB-102		Department of Biology	JB Floor 1
8	Room	JB-103		Department of Biology	JB Floor 1
9	Room	JB-104		Department of Biology	JB Floor 1
10	Room	JB-201		Department of Biology	JB Floor 2

Create New Location

1. Click Location on left menu
2. Click New Location
3. Fill all the required data and click Create

The screenshot shows the 'Create Location' page of the Unified University Inventory System. The browser title bar reads 'Create Location - Mozilla Firefox'. The main content area has a form titled 'Create Location' with fields for Type (dropdown menu), Name (text input), Description (text input), Parent Location (dropdown menu), Owner (dropdown menu), and Capacity (text input). Below the form is a 'Create' button. On the left, there is a sidebar with links: REQUESTS, ASSETS, BULK LOAD, LOCATIONS, UNIVERSITY STRUCTURE, SEARCH, REPORTS, USERS & PERMISSIONS, and AUDITING. At the top right, there is a search bar with 'Search' and 'Submit' buttons, and a link to 'Advanced search'. The address bar shows the URL: http://spec109.encc.concordia.ca/uuis/location/create.

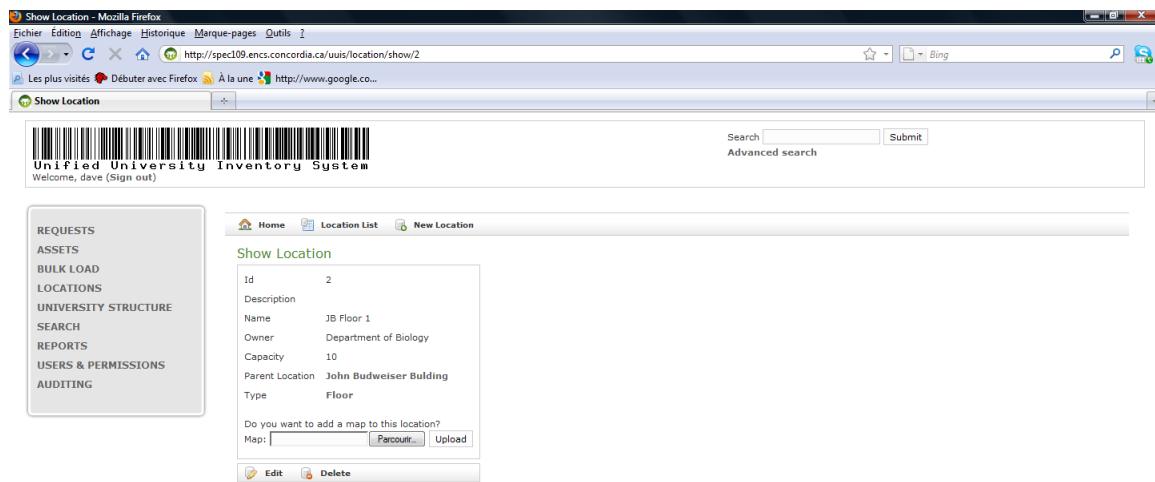
Create New Location Type (IT group only)

1. Click Location on left menu
2. Click New Location Type
3. Fill all the required data and click on Create

The screenshot shows the 'Create LocationType' page of the Unified University Inventory System. The browser title bar reads 'Create LocationType - Mozilla Firefox'. The main content area has a form titled 'Create LocationType' with fields for Name (text input) and Description (text input). Below these is a section titled 'Location Type Properties' with a 'Add' button and dropdown menus for Address, Postal Code, City, Province, and Country. At the bottom is a 'Create' button. On the left, there is a sidebar with links: REQUESTS, ASSETS, BULK LOAD, LOCATIONS, UNIVERSITY STRUCTURE, SEARCH, REPORTS, USERS & PERMISSIONS, and AUDITING. At the top right, there is a search bar with 'Search' and 'Submit' buttons, and a link to 'Advanced search'. The address bar shows the URL: http://spec109.encc.concordia.ca/uuis/locationType/create.

Displaying Location Properties

1. Click the Location from left Menu
2. Click the Location from the Location list



The screenshot shows a Firefox browser window displaying a web application for managing university inventory. The title bar reads "Show Location - Mozilla Firefox". The main content area shows a form titled "Show Location" with the following data:

Id	2
Description	
Name	JB Floor 1
Owner	Department of Biology
Capacity	10
Parent Location	John Budweiser Building
Type	Floor

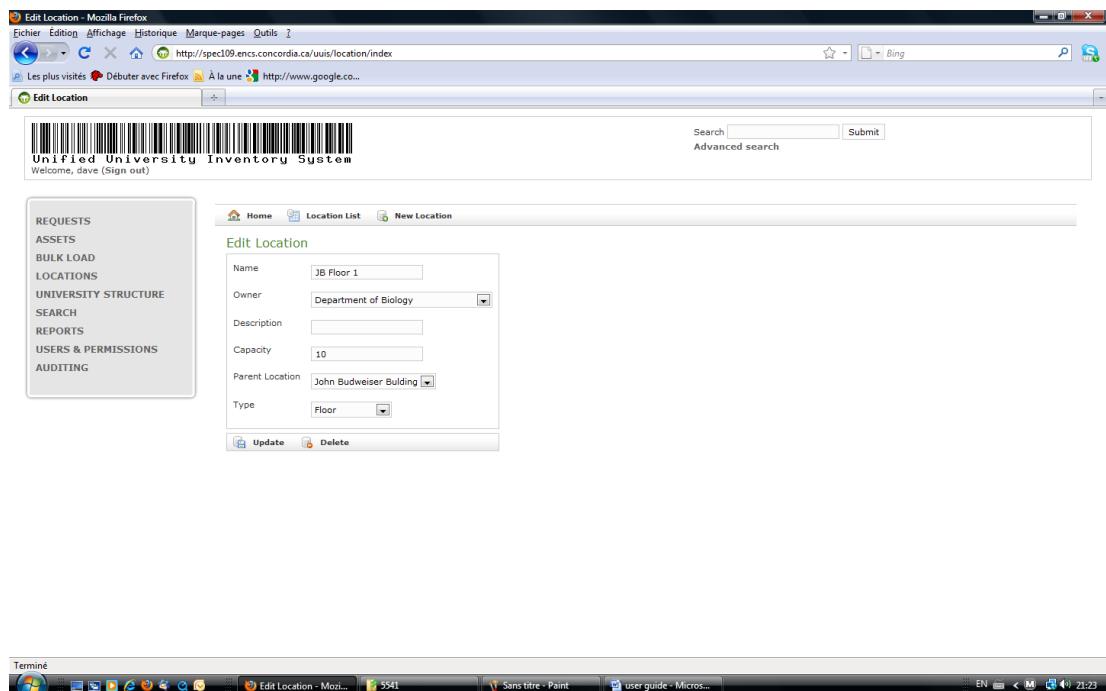
Below the form, there is a question "Do you want to add a map to this location?" with options to "Map:" (input field), "Parcourir...", and "Upload". At the bottom of the page are "Edit" and "Delete" buttons.

The left sidebar contains a navigation menu with links: REQUESTS, ASSETS, BULK LOAD, LOCATIONS, UNIVERSITY STRUCTURE, SEARCH, REPORTS, USERS & PERMISSIONS, and AUDITING.

The taskbar at the bottom of the screen shows several open windows, including "Show Location - Mo...", "5541", "Sans titre - Paint", and "user guide - Micros...".

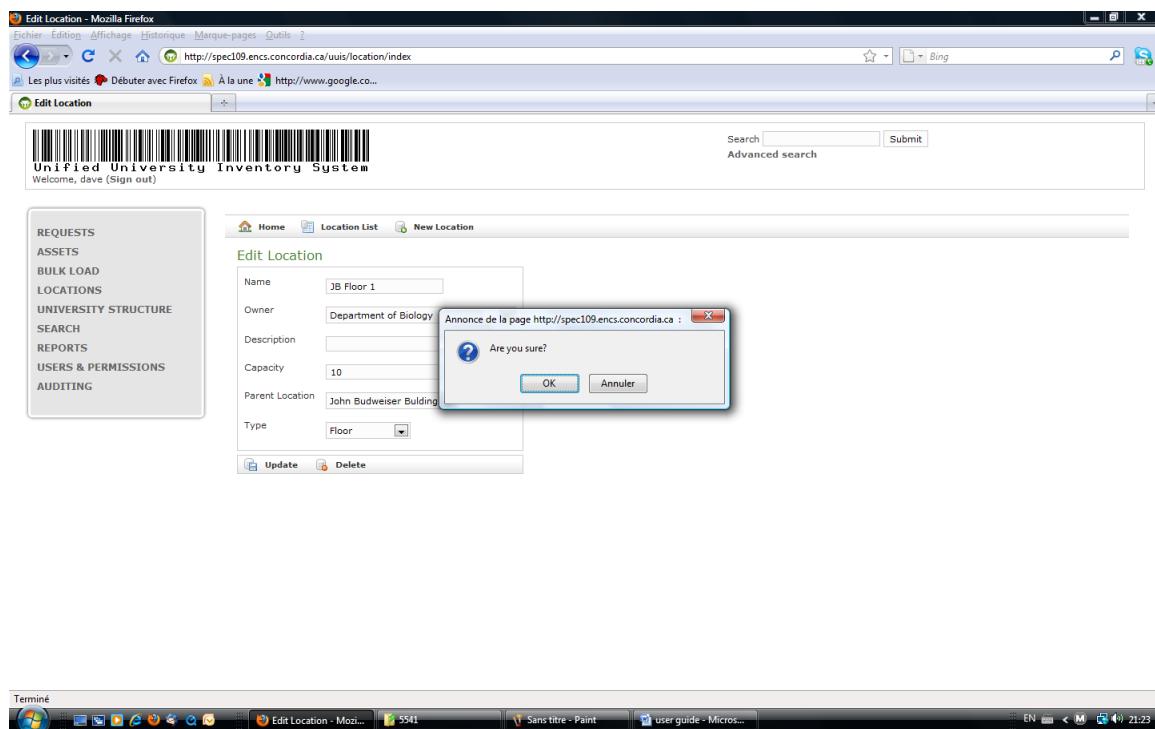
Change Location Properties

1. Click the Location from left Menu
2. Click the Location from the Location list
3. Click Edit Location
4. Change properties and click Update



Delete Location (IT Group Only)

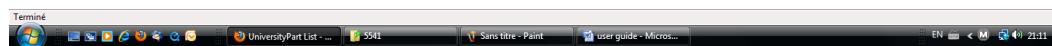
1. Click the Location from left Menu
2. Click the Location from the Location list
3. Click Edit Location
4. Click Delete Location
5. Click ok to confirm



Displaying University Structure

Permit to display administrators list groups and levels

Id	Name	Parent	Type
1	IT Group		GROUP
2	Inventory Group	IT Group	GROUP
3	University of Arctica	Inventory Group	UNIVERSITY
4	Faculty of Arts and Science	University of Arctica	FACULTY
5	Faculty of Computer Science	University of Arctica	FACULTY
6	Faculty of Engineering	University of Arctica	FACULTY
7	Department of Biology	Faculty of Arts and Science	DEPARTMENT
8	Department of Sociology	Faculty of Arts and Science	DEPARTMENT
9	Department of Software Engineering	Faculty of Computer Science	DEPARTMENT
10	Department of Computer Theory	Faculty of Computer Science	DEPARTMENT



Adding New Entity to University Structure (IT Group Only)

1. Click University Structure from the left Menu
2. Click Create

Create UniversityPart

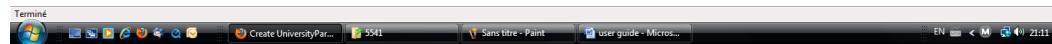
Name:

Parent: No parent

Type: UNIVERSITY

Heads: Dave Gray, John Doe, Jack Daniels, Bob Johnson, Phil Collins

Create



Id	Actor	Event	Class	Object Id	Property Name	Old Value	New Value	Last Updated
344		UPDATE	Asset	497	iufaID		IUFAID0000000497	2010-04-19 19:43:57 EDT
343		INSERT	Asset	497				2010-04-19 19:43:57 EDT
342		UPDATE	Asset	496	iufaID		IUFAID0000000496	2010-04-19 19:43:25 EDT
341		INSERT	Asset	496				2010-04-19 19:43:25 EDT
340		UPDATE	Asset	495	iufaID		IUFAID0000000495	2010-04-19 19:43:25 EDT
339		INSERT	Asset	495				2010-04-19 19:43:25 EDT
338		UPDATE	Asset	494	iufaID		IUFAID0000000494	2010-04-19 19:43:25 EDT
337		INSERT	Asset	494				2010-04-19 19:43:25 EDT
336	marge	UPDATE	Request	15	status	WAITING_EXECUTION	EXECUTED	2010-04-19 19:31:09 EDT
335	jack	UPDATE	Request	15	partAssigned	Department of Biology	Inventory Group	2010-04-19 19:30:47 EDT

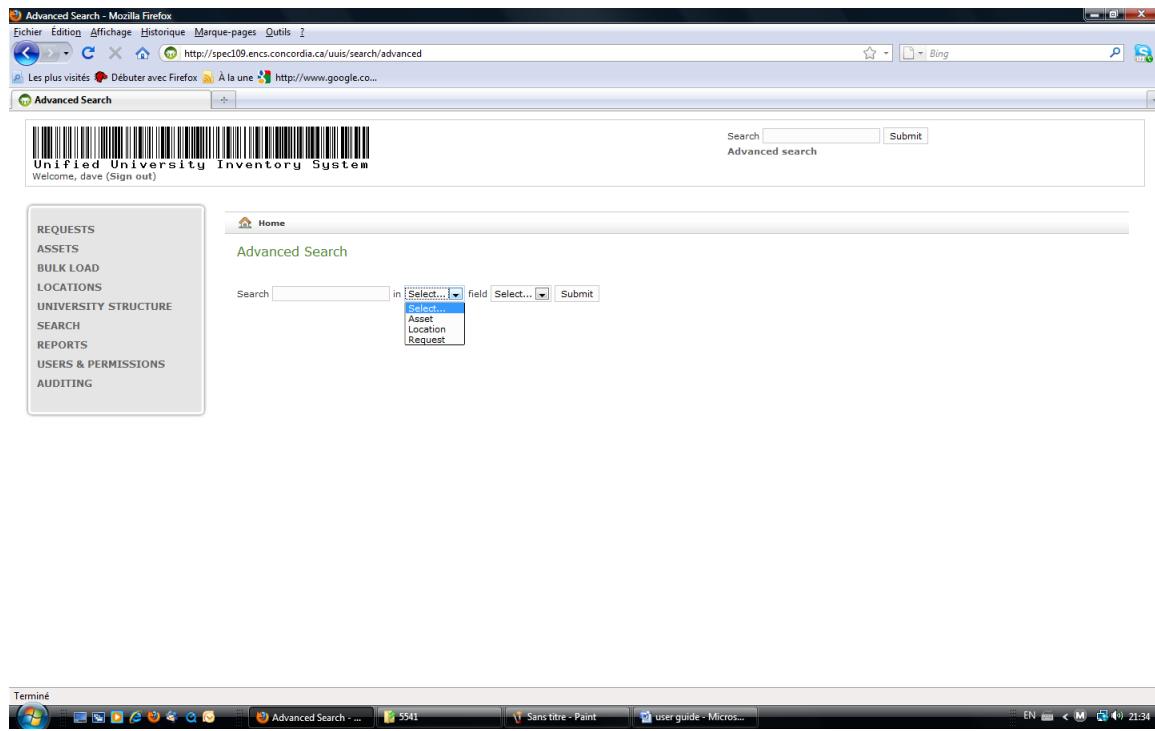
1 2 3 4 5 6 7 8 9 10 .. 35 Suivant

Search

Search box is always displayed at right side of the screen

To display advance search page:

1. Click Search form the left Menu
2. Fill the search box
3. Using drop down list specify search attributes



Displaying Reports

The application can display three kinds of reports

1. User Permission Report
2. Requests Report
3. Assets by location report

To display a report:

1. Click Report from the left Menu
2. Click the Report you want to display

Report page allows to filter and sort data

Unified University Inventory System

REPORTS

- REQUESTS
- ASSETS
- BULK LOAD
- LOCATIONS
- UNIVERSITY STRUCTURE
- SEARCH
- REPORTS
- USERS & PERMISSIONS
- AUDITING

Reports

- User Permission Report
- Request Report
- Assets By Location Report

Search Submit Advanced search

User Permission Report

ID	Name	Department	Permissions
1	Dave	Faculty of Arts and Science	*
2	John	Faculty of Computer Science	*
3	Jack	Faculty of Biology	*
4	Bob	Department of Sociology	*
5	Phil	Department of Software Engineering	*
6	Mary	Department of Computer Theory	*
7	Linda	Department of Civil Engineering	*
8	Mel	Department of Electrical Engineering	*
9	Jodie Foster	Faculty of Outl Sciences	*
10	Julie Roberts	Department of Computer Theory	*
11	Lisa Simpson	Department of Civil Engineering	*
12	Marge Simpson	Inventory Group	*
21	serguei	Faculty of Outl Sciences	[object Object]

< prev 1 next > 13 total records

Request Report

Requests - Mozilla Firefox

Eicher Edition Historique Marque-pages Outils ?

Les plus visités Débuter avec Firefox À la une http://www.google.co...

Requests

Welcome, dave (Sign out)

REQUESTS
ASSETS
BULK LOAD
LOCATIONS
UNIVERSITY STRUCTURE
SEARCH
REPORTS
USERS & PERMISSIONS
AUDITING

Home

Report - Requests

Department: Any Department Request Status: Any Status Per Page: 20

Date range: From: To:

Any Status
New
Waiting for Approval
Approved
Rejected
Waiting for Execution
Executed

submit

< prev 1 next > 14 total records

ID	Requested By	Property Of	Description	Comments	Submitted	Status
1	dave	Inventory Group	Transfer now	Transfer this item to my department	2010-04-17T12:43:59Z	NE
3	kenny	Inventory Group	The scroll wheel is not working	The asset IUFAD000000000001	2010-04-18T17:15:31Z	EX
4	bill	Inventory Group	They have requested this	Transfer this asset to the Department of Sociology, they have requested this.	2010-04-18T21:32:54Z	EX
5	eric	Inventory Group	It's not booting anymore	The computer with iufaid00000000492 is broken.	2010-04-19T02:27:32Z	EX
6	bill	Inventory Group	I want this computer	Please	2010-04-19T02:35:19Z	EX
7	bill	Department of Biology	Transfer	Please transfer to room JB-301, Department of Sociology	2010-04-19T02:46:17Z	RJ
8	mary	Inventory Group	Transfer this asset	Transfer this asset to room JB-301, Department of Sociology	2010-04-19T02:51:55Z	EX
9	eric	Inventory Group	[object Object]	[object Object]	2010-04-19T03:05:33Z	NE
10	eric	Inventory Group	my mouse doesn't work	mouse	2010-04-19T03:06:29Z	EX
11	Ali	Inventory Group	[object Object]	[object Object]	2010-04-19T03:07:28Z	EX
12	eric	Inventory Group	idle	None available	2010-04-19T19:20:09Z	RJ
13	phil	Inventory Group	For sound mixing...	[object Object]	2010-04-19T19:30:31Z	EX
14	eric	Inventory Group	[object Object]	The IUFAD is 00000000408	2010-04-19T22:47:26Z	EX
15	bill	Inventory Group	Transfer	Transfer	2010-04-19T23:26:37Z	EX

< prev 1 next > 14 total records

Assets by Location Report

Assets By Location - Mozilla Firefox

Eicher Edition Historique Marque-pages Outils ?

Les plus visités Débuter avec Firefox À la une http://www.google.co...

Assets By Location

Welcome, dave (Sign out)

Unified University Inventory System

Search Submit Advanced search

Home

Report - Assets By Location

Building: Any Building Room Type: Any Room Per Page: 20 submit

< prev 1 2 next > 27 total records

ID	Location	Located At	LocationType	Capacity	Chairs	Computers	Tables
1	John Budweiser Building	-	Building	10	0	363	1
2	JB Floor 1	John Budweiser Building	Floor	10	0	0	0
3	JB Floor 2	John Budweiser Building	Floor	10	0	0	0
4	JB Floor 3	John Budweiser Building	Floor	10	0	0	0
5	JB Floor 4	John Budweiser Building	Floor	10	0	0	0
6	JB-101	JB Floor 1	Room	10	1	7	0
7	JB-102	JB Floor 1	Room	10	0	20	8
8	JB-103	JB Floor 1	Room	10	0	17	0
9	JB-104	JB Floor 1	Room	10	0	19	1
10	JB-201	JB Floor 2	Room	10	0	0	0
11	JB-202	JB Floor 2	Room	10	0	0	0
12	JB-203	JB Floor 2	Room	10	0	0	0
13	JB-204	JB Floor 2	Room	10	0	0	0
14	JB-301	JB Floor 3	Room	10	0	0	0
15	JB-302	JB Floor 3	Room	10	0	0	0
16	JB-303	JB Floor 3	Room	10	0	0	0
17	JB-304	JB Floor 3	Room	10	0	0	0
18	JB-401	JB Floor 4	Room	10	0	0	0
19	JB-402	JB Floor 4	Room	10	0	0	0
20	JB-403	JB Floor 4	Room	10	0	30	0

< prev 1 2 next > 27 total records

Displaying Users List (IT Group Only)

1. Click Users &Permissions from Left side Menu

The screenshot shows a web browser window titled "User List - Mozilla Firefox". The address bar displays the URL <http://spec109.encc.concordia.ca/uuis/user/list>. The page header includes the logo "Unified University Inventory System" and a search bar with "Search" and "Submit" buttons. On the left, a sidebar menu lists various system modules: REQUESTS, ASSETS, BULK LOAD, LOCATIONS, UNIVERSITY STRUCTURE, SEARCH, REPORTS, USERS & PERMISSIONS, and AUDITING. The main content area is titled "User List" and contains a table with 10 rows of user data. The columns are labeled "Id", "Username", "Name", and "Staff Member Of". The data is as follows:

Id	Username	Name	Staff Member Of
1	dave	Dave Gray	[]
2	john	John Doe	[]
3	jack	Jack Daniels	[]
4	bob	Bob Dylan	[]
5	phil	Phil Collins	[]
6	mary	Mary Poppins	[]
7	linda	Linda Hamilton	[]
8	melanie	Melanie Lynn	[]
9	jodie	Jodie Foster	[]
10	julia	Julia Roberts	[]

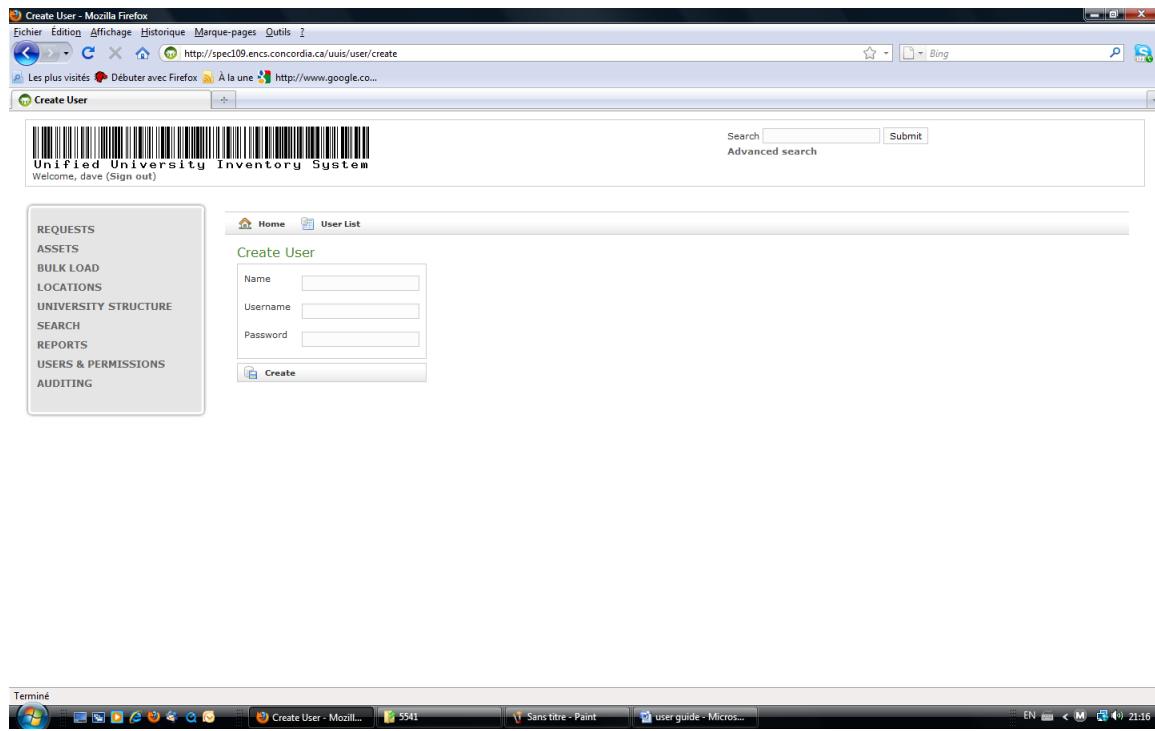
Pagination at the bottom shows links for "1", "2", "3", and "Suivant".

The taskbar at the bottom of the screen shows several open windows, including "Terminé", "User List - Mozilla Fi...", "5541", "Sans titre - Paint", and "user guide - Micros...".

Create a New user (IT Group only)

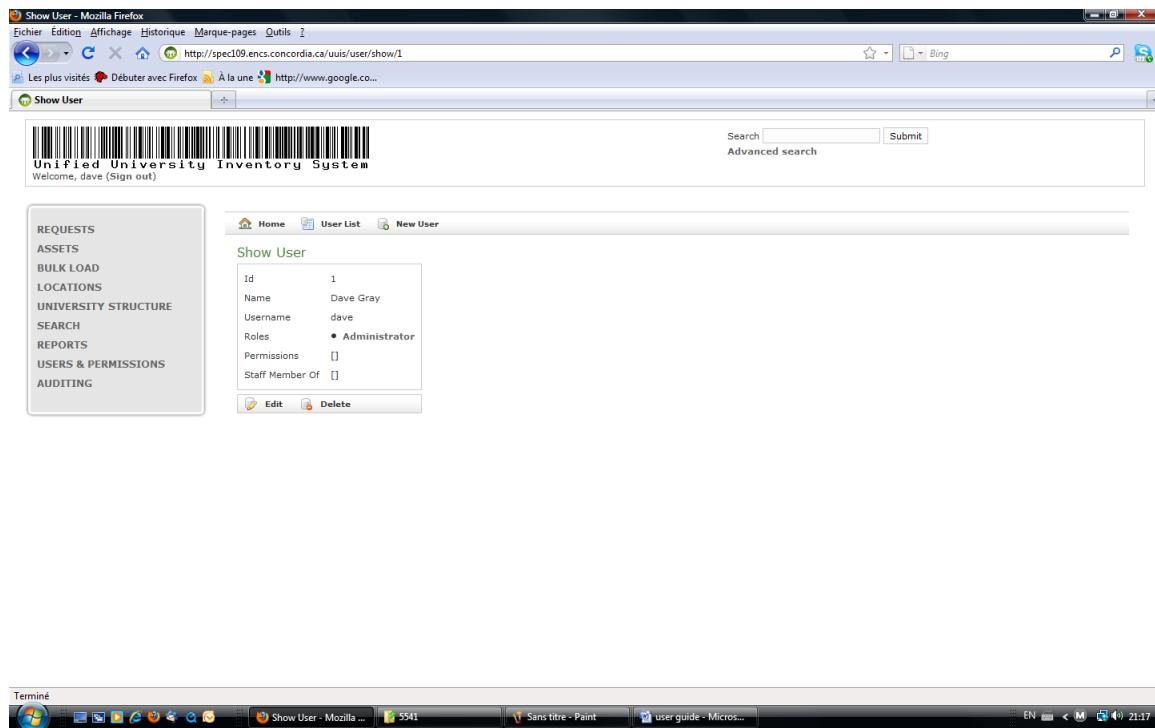
1. Click Users &Permissions from Left side Menu
2. Click New User
3. Fill user info and click Create

It is important to pay attention to the user assigned role because by assigning roles we assign permission to the users



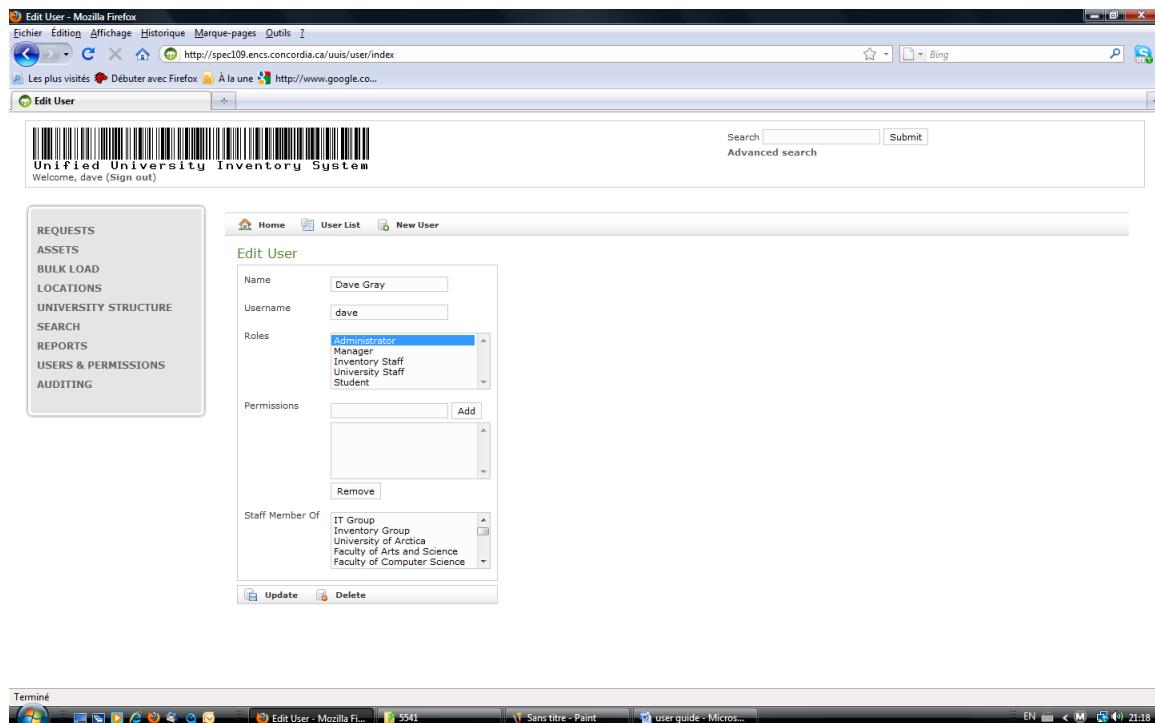
Display User properties (IT Group only)

1. Click Users & Permissions from Left side Menu
2. Click on the User



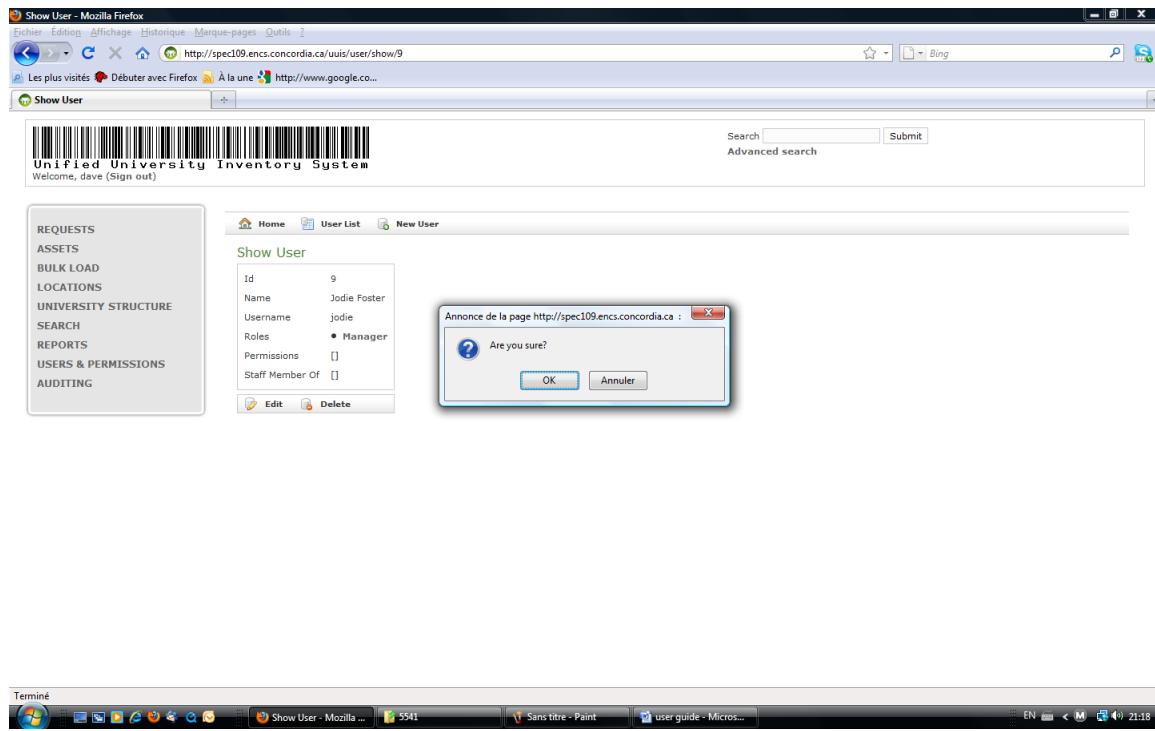
Modifying user properties (IT Group only)

1. Click Users &Permissions from Left side Menu
2. Click the User
3. Fill user info and click Edit user
4. Change properties and click Update



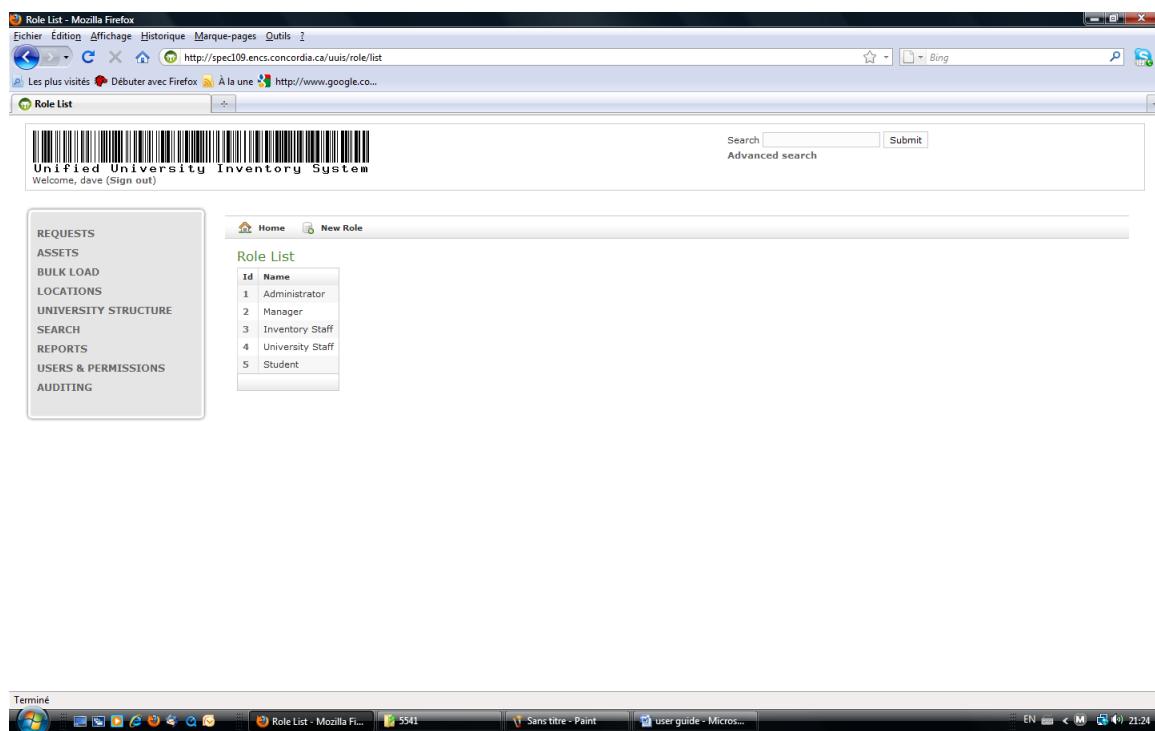
Delete user (IT Group only)

1. Click Users &Permissions from Left side Menu
2. Click the User
3. Fill user info and click on Delete user
4. Confirm



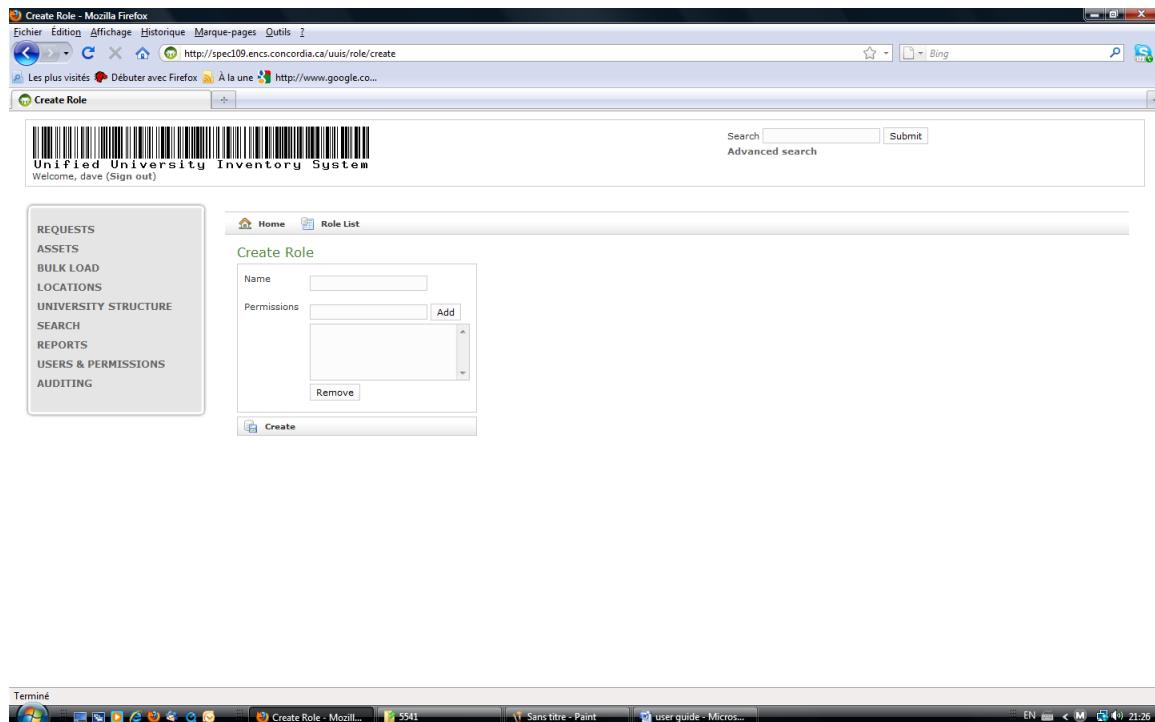
Displaying the List of Roles List (IT Group Only)

1. Click Users & Permissions from Left side Menu
2. Click Roles



Create a New Role (IT Group Only)

1. Click Users &Permissions from Left side Menu
2. Click Roles
3. Click create
4. Assign permissions
5. Click Create



Display List of Users By Role (IT Group Only)

You can display all the administrators for examples

1. Click Users &Permissions from Left side Menu
2. Click Roles
3. Click Role List

Show Role - Mozilla Firefox
Fichier Édition Affichage Historique Marque-pages Outils ?
http://spec109.enccs.concordia.ca/uuis/role/show/1
Les plus visités Débuter avec Firefox À la une http://www.google.co...
Show Role

Unified University Inventory System
Welcome, dave (Sign out)

REQUESTS ASSETS BULK LOAD LOCATIONS UNIVERSITY STRUCTURE SEARCH REPORTS USERS & PERMISSIONS AUDITING

Show Role

Id	1
Name	Administrator
Users	• Bing Liu • dani • Dave Gray
Permissions	[*;*]

[Edit](#) [Delete](#)

Search Submit Advanced search

Modify Role Properties (IT Group Only)

1. Click Users &Permissions from Left side Menu
2. Click Roles
3. Edit role
4. Change properties and click Update

Edit Role - Mozilla Firefox
Fichier Édition Affichage Historique Marque-pages Outils ?
http://spec109.enccs.concordia.ca/uuis/role/index
Les plus visités Débuter avec Firefox À la une http://www.google.co...
Edit Role

Unified University Inventory System
Welcome, dave (Sign out)

REQUESTS ASSETS BULK LOAD LOCATIONS UNIVERSITY STRUCTURE SEARCH REPORTS USERS & PERMISSIONS AUDITING

Edit Role

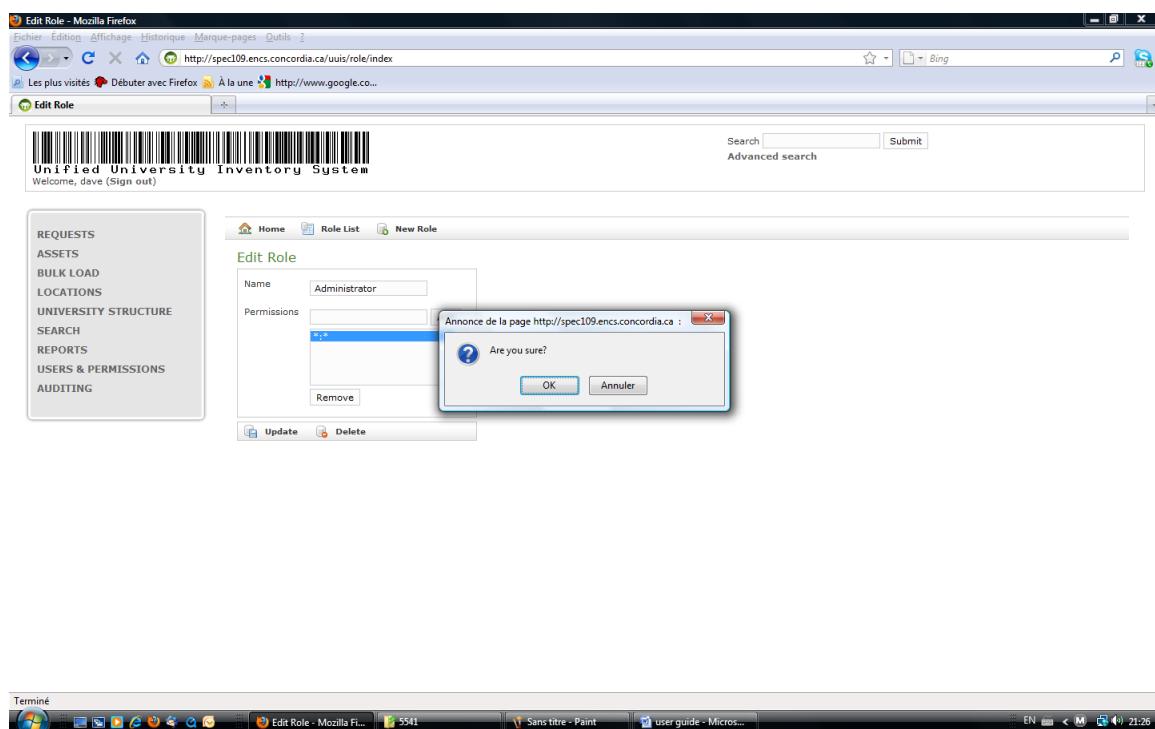
Name	Administrator
Permissions	[*;*] Add Remove

[Update](#) [Delete](#)

Search Submit Advanced search

Delete Role (IT Group only)

1. Click Users &Permissions from Left side Menu
2. Click Roles
3. Click Delete and confirm



Display Audit Report

1. Click Auditing from the left Menu

AuditLog List - Mozilla Firefox

Fichier Edition Affichage Historique Marque-pages Outils ?
Les plus visités Débuter avec Firefox À la une http://www.google.co...

AuditLog List

Unified University Inventory System

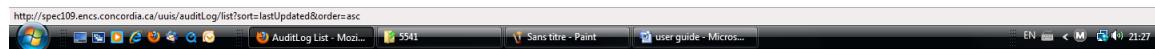
Welcome, dave (Sign out)

REQUESTS
ASSETS
BULK LOAD
LOCATIONS
UNIVERSITY STRUCTURE
SEARCH
REPORTS
USERS & PERMISSIONS
AUDITING

Home AuditLog List

Id	Actor	Event	Class	Object Id	Property Name	Old Value	New Value	Last Updated
344		UPDATE	Asset	497	iufaID		IUFAID0000000497	2010-04-19 19:43:57 EDT
343		INSERT	Asset	497				2010-04-19 19:43:57 EDT
342		UPDATE	Asset	496	iufaID		IUFAID0000000496	2010-04-19 19:43:25 EDT
341		INSERT	Asset	496				2010-04-19 19:43:25 EDT
340		UPDATE	Asset	495	iufaID		IUFAID0000000495	2010-04-19 19:43:25 EDT
339		INSERT	Asset	495				2010-04-19 19:43:25 EDT
338		UPDATE	Asset	494	iufaID		IUFAID0000000494	2010-04-19 19:43:25 EDT
337		INSERT	Asset	494				2010-04-19 19:43:25 EDT
336	marge	UPDATE	Request	15	status	WAITING_EXECUTION	EXECUTED	2010-04-19 19:31:09 EDT
335	jack	UPDATE	Request	15	partAssigned	Department of Biology	Inventory Group	2010-04-19 19:30:47 EDT

1 2 3 4 5 6 7 8 9 10 .. 35 Suivant



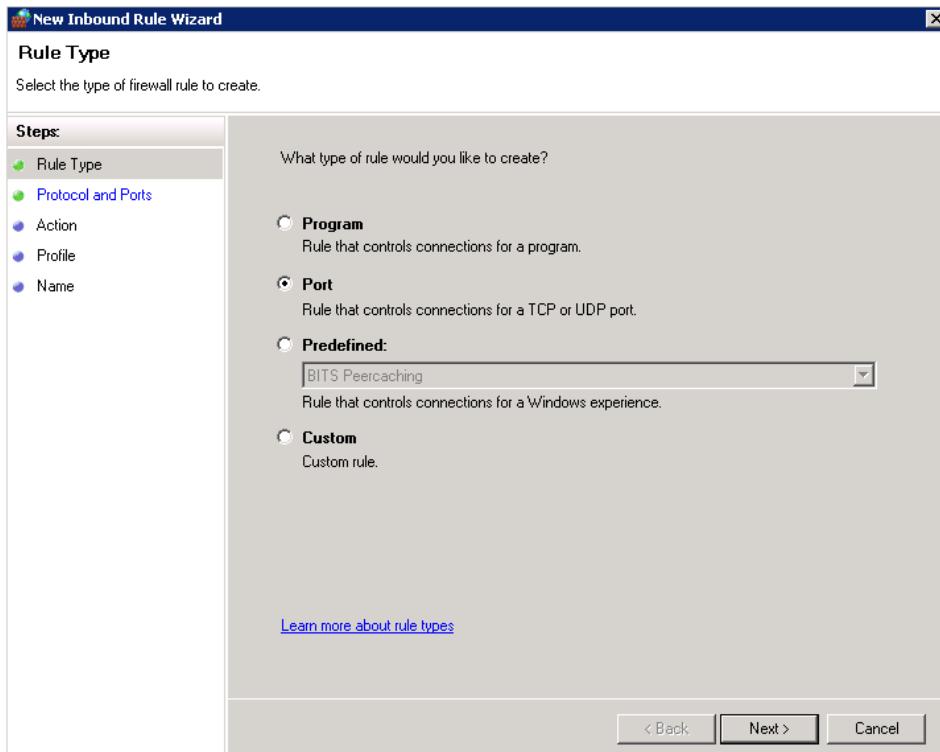
Appendix II: Configuration and Deployment Document

Windows Server Configuration

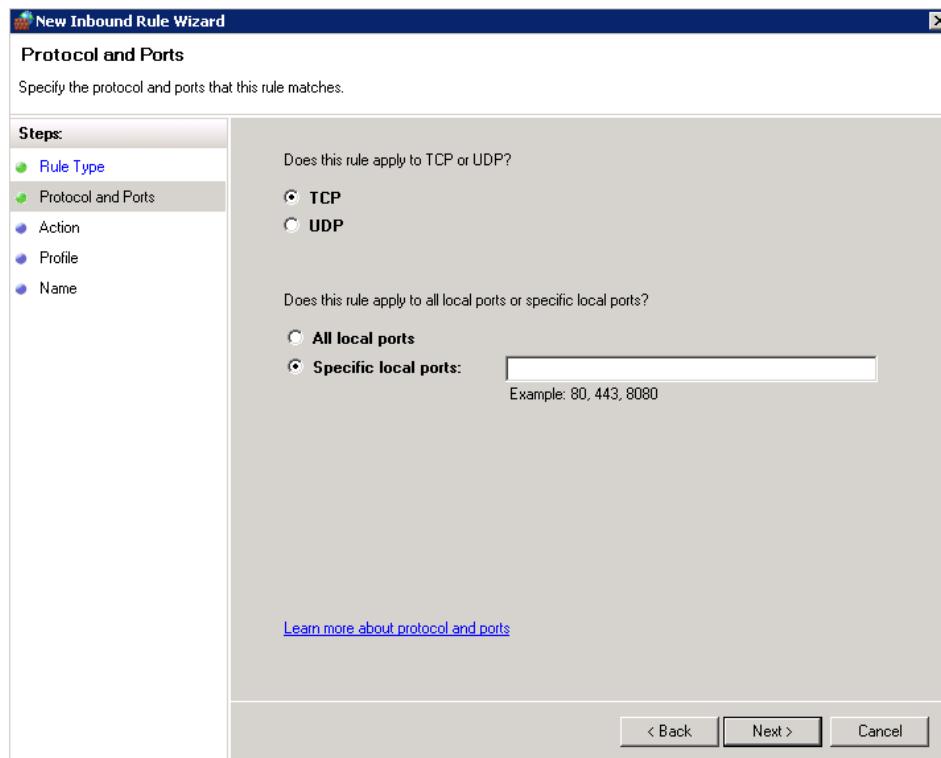
Install Windows Server 2008 using default configuration.

Open the Windows Firewall Configuration and select Inbound Rules.

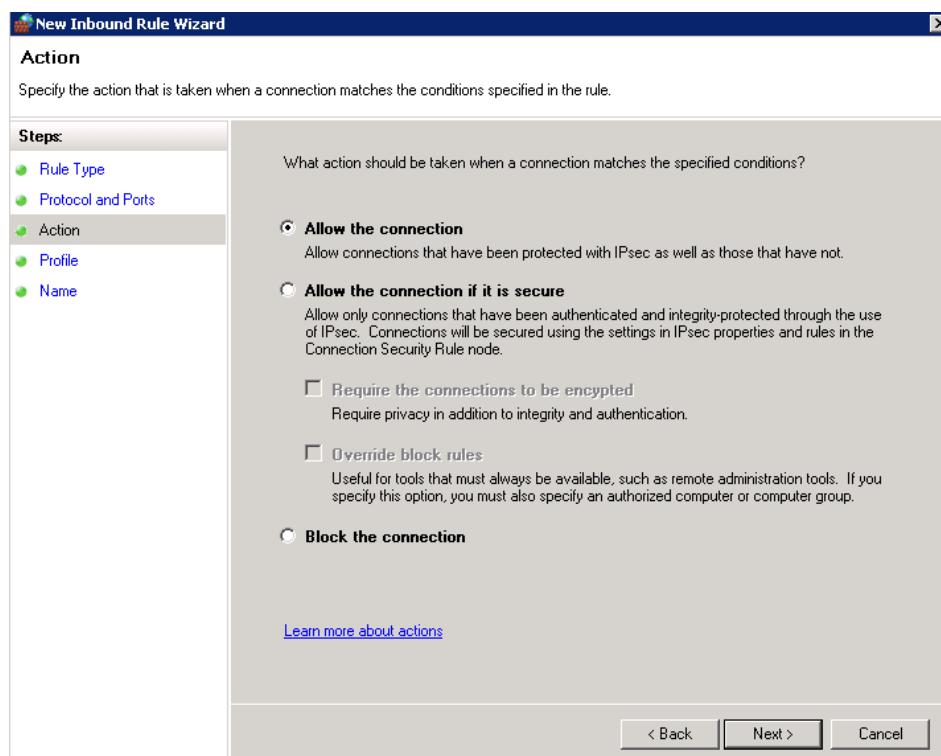
Click New Rule. In the window that opens select “Port” and click Next.



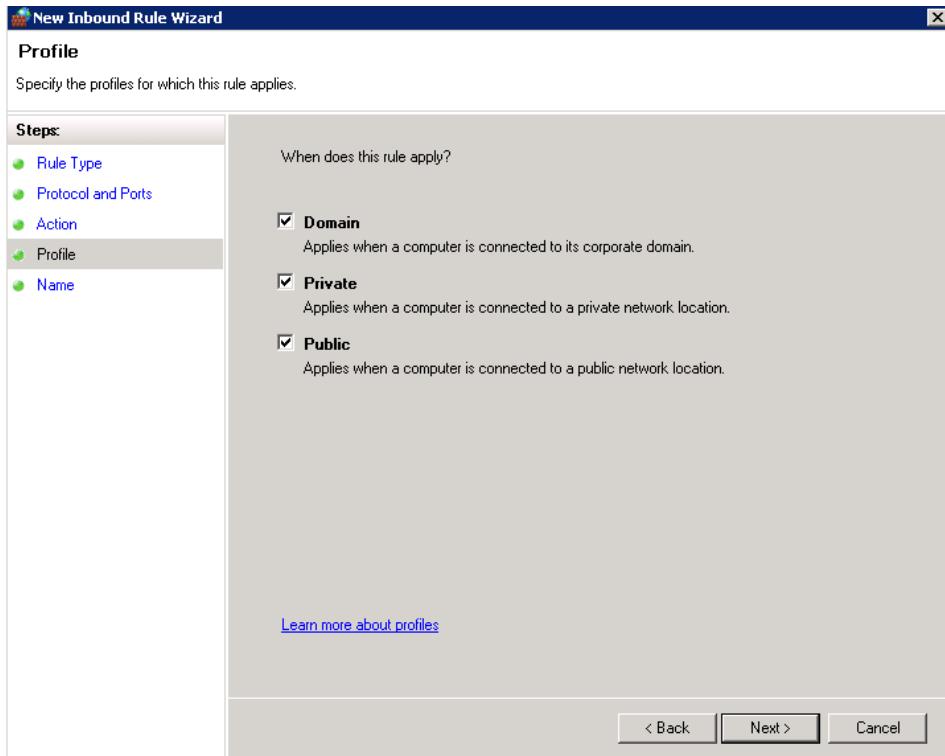
Select “Specific local ports” and enter 80 in the text box.



Leave the default “Allow the connection” enabled and click Next.



Apply the rule to all three areas.

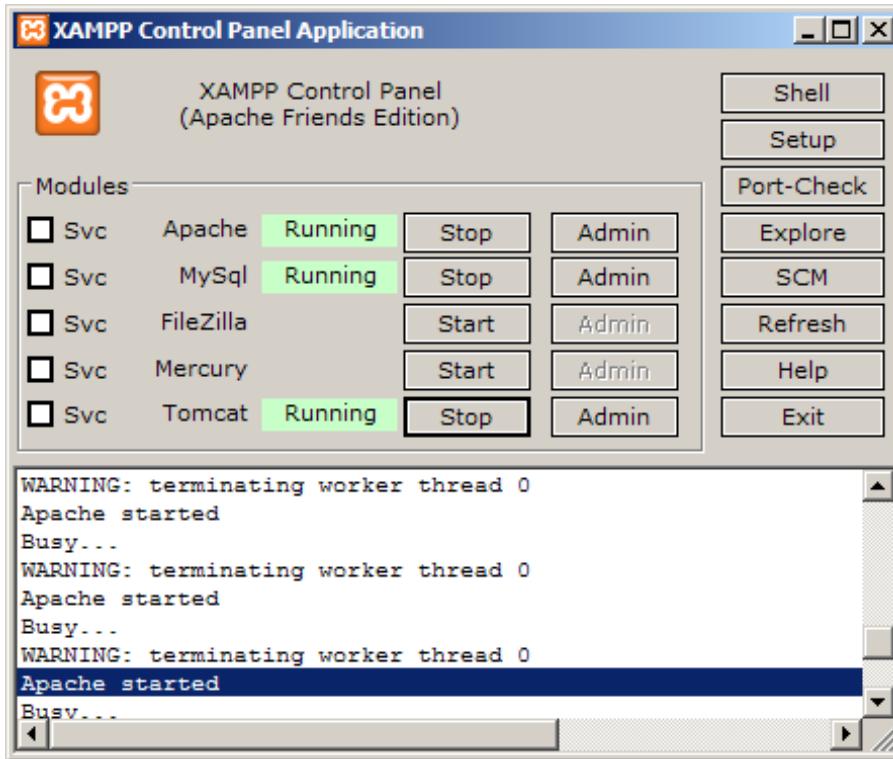


Give the rule a name like “Web Server” and click Finish to complete the firewall setup.

Apache Configuration

Download XAMP v1.7.3 from [here](#). Install with default options. Also install the Tomcat 6.0.20 plugin available from [here](#). Default options work but you may specify an alternate install path if you prefer.

After installation XAMPP should run automatically. Click the Start button beside Apache, MySql, and Tomcat.

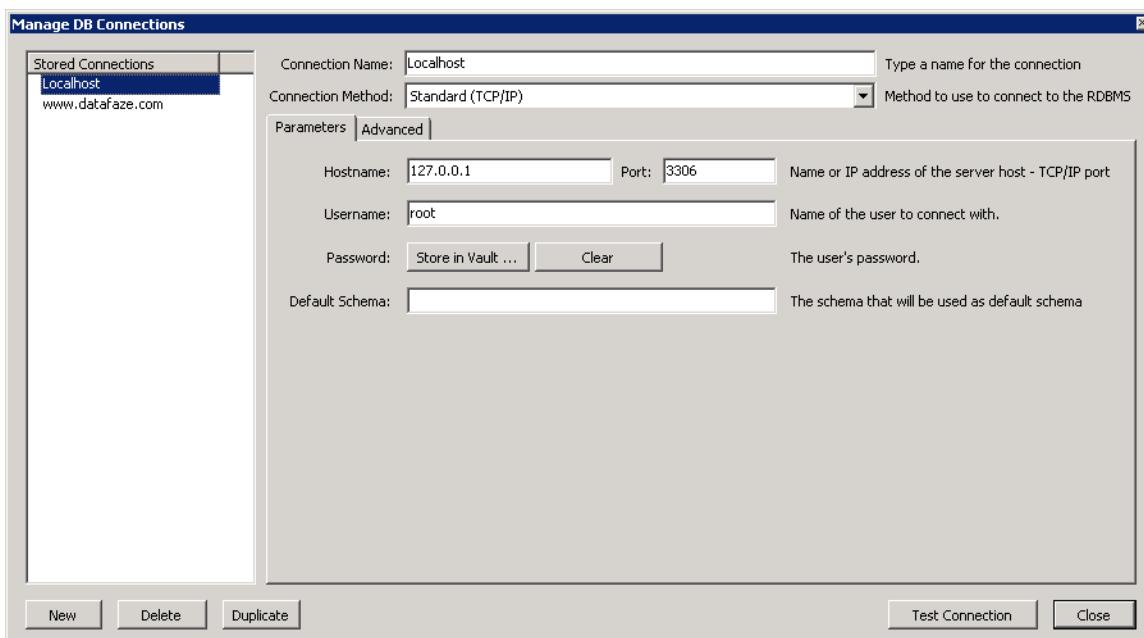


To run these servers as Windows services, click the empty checkboxes on the left side under the Modules heading.

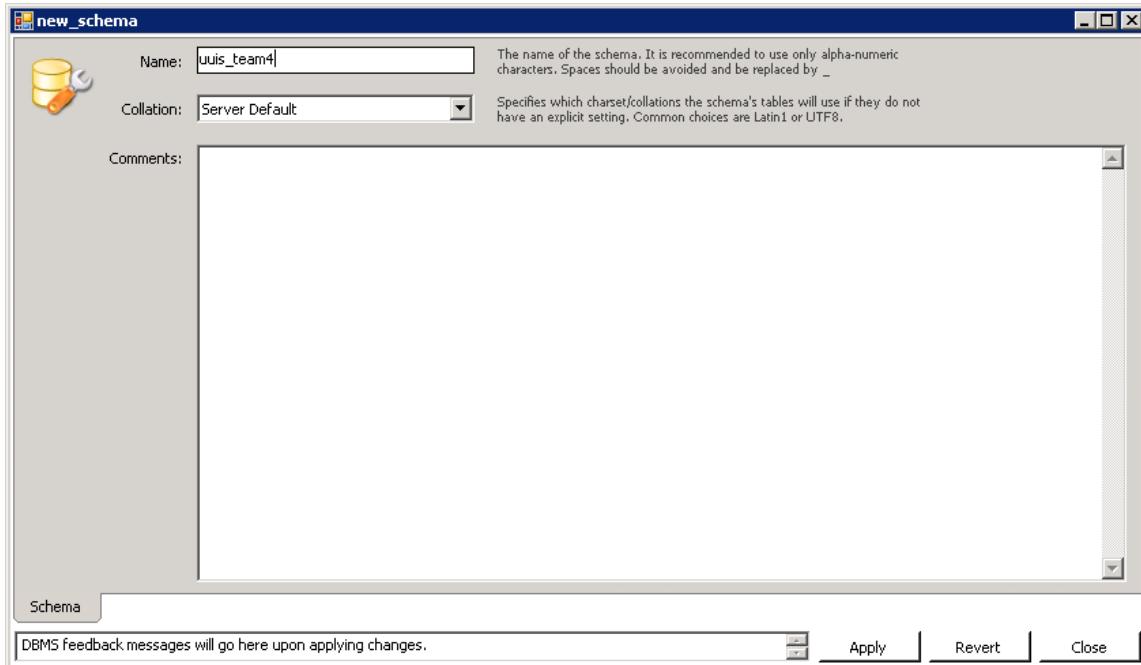
MySQL Configuration

MySQL and MySQL WorkBench were installed using default configuration.

1. Create default connection (here, we use localhost)



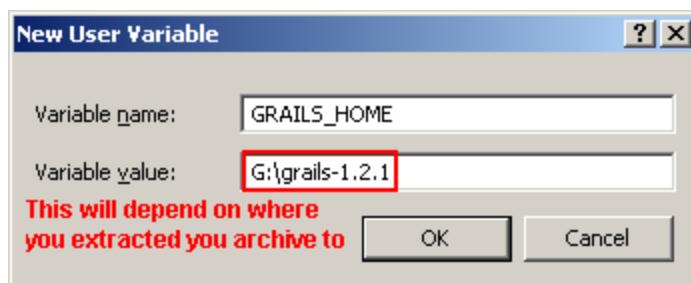
2. Create a new database: uuis_team4, click on apply



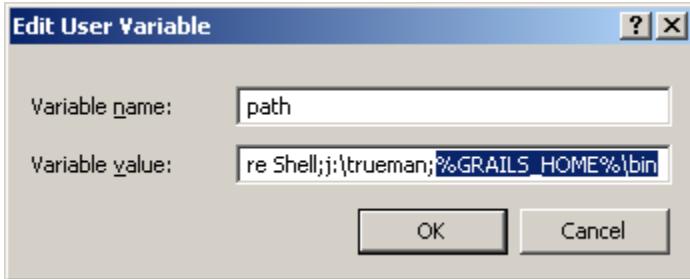
3. Open the database schema script at <source path root>\uis\scripts\DBSchema.sql from the query editor window and run it. The tables and some initial data will be generated.

Grails Configuration

1. Download Grails 1.2.1. Do it by clicking [here](#).
2. Unpack the zip file to your computer, I'm unpacking it to G:\ as I'm in one of the labs now, but you can put it in you C:\
3. Add the Grails path to your environment variables. Right click My Computer, then click Properties, then the Advanced tab, then the Environment Variables button. Under System variables (if you're in the labs, under User variables) click New and add the values:



4. Still under System variables (or User variables), find Path in the list, and edit it adding %GRAILS_HOME%\bin



Click OK to close the windows.

- Let's test if it works, open a command line and type "grails -version". You should see something like this:

```
en C:\WINDOWS\system32\cmd.exe
C:\Documents and Settings\d_oli>grails -version
Welcome to Grails 1.2.1 - http://grails.org/
Licensed under Apache Standard License 2.0
Grails home is set to: G:\grails-1.2.1

Base Directory: C:\Documents and Settings\d_oli
Resolving dependencies...
Dependencies resolved in 1234ms.
Running pre-compiled script
Script not found: Version
C:\Documents and Settings\d_oli>_
```

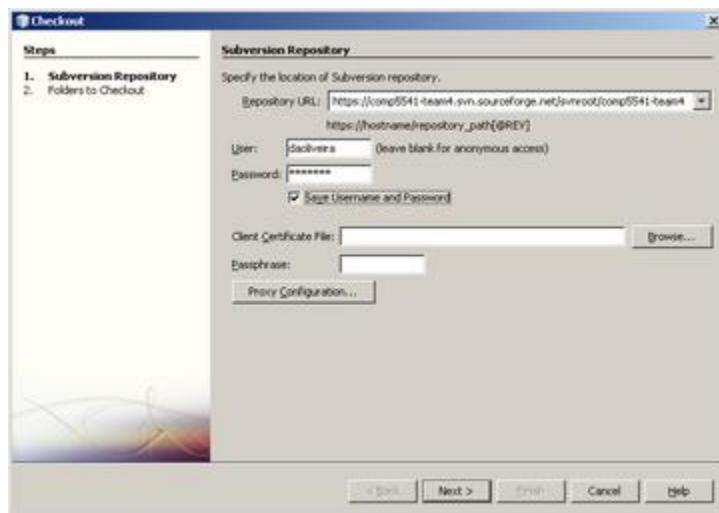
NetBeans Configuration

- Download NetBeans 6.8 [here](#) and install it (this version already ships with Grails support, but if you're in the labs chances are that the version 6.7.1 is installed instead, all you'll have to do is go to Tools > Plugins > Available Plugins, select Groovy and Grails from the list and install it).
- Now let's check-out our project into NetBeans. Click the menu Team, Subversion, and then Checkout... If this is the first time you're using Subversion in NetBeans, it will ask you to download a Subversion client.

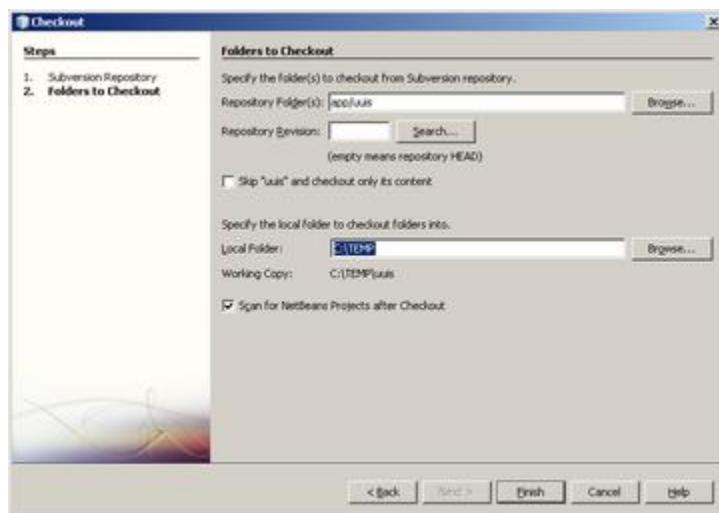


Just click OK that NetBeans take care of it for you.

3. After you restarted NetBeans go back to the menu Team, Subversion, and then Checkout...
4. In Repository URL, provide our repository which is <https://comp5541-team4.svn.sourceforge.net/svnroot/comp5541-team4>
5. Fill in your SourceForge user and password, click Save Username and Password if you want, then click Next.



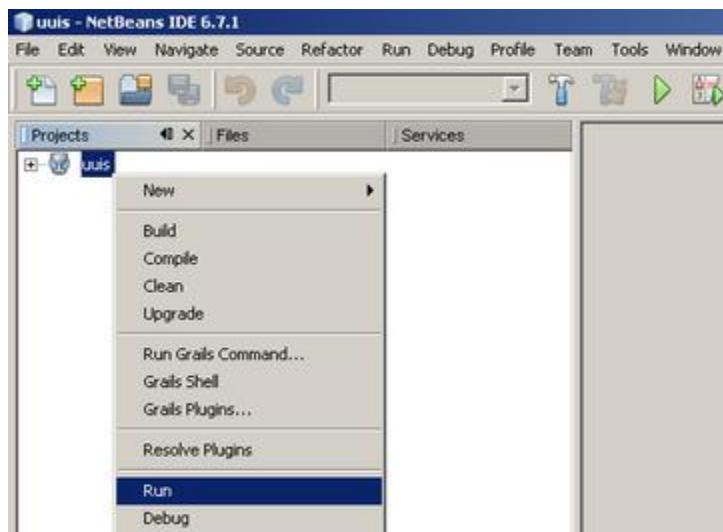
6. In Repository Folder(s) provide app/uuis
7. You can specify a destination (Local Folder), mine is C:\TEMP
8. Click Finish



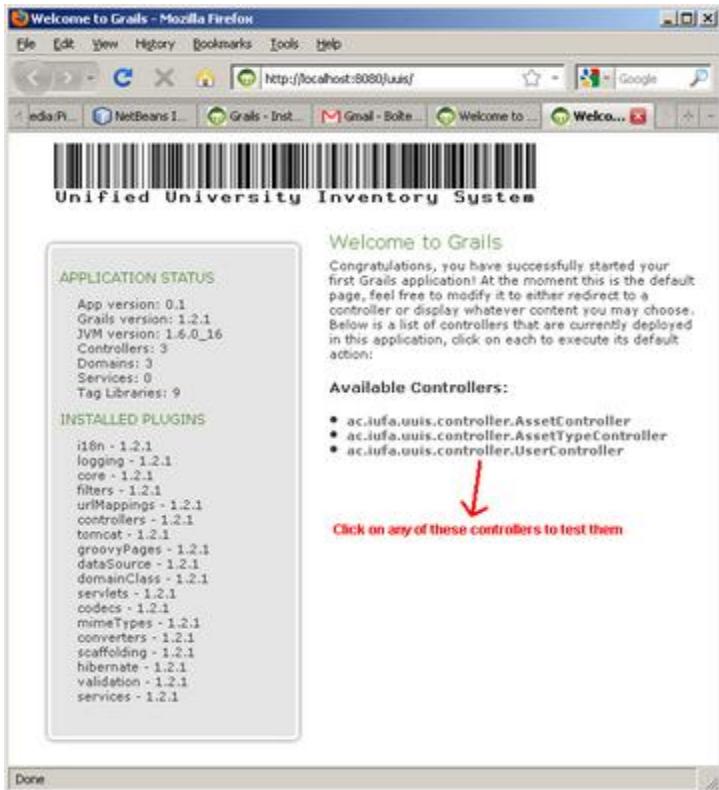
9. When the Checkout finishes, a confirmation dialog is show. Just hit Open Project and we're ready to go!



10. To test the project, right click on it then select Run



11. After running some build script, a web browser pops up with our application in it



Application Deployment

To build the application for deployment, database connection information is required in <source path root>/app/uuis/grails-app/conf/DataSource.groovy. The default database type is MySQL, although PostgreSQL could be used with minimal changes. Refer to the Grails documentation for details on specifying database connection drivers.

The DataSource.groovy configuration file requires a database username and password on lines 3 and 4. Alternate data sources for development and production systems can be specified in the DataSource configuration file as well. Refer to the Grails documentation for more details.

To deploy the application type “grails war” from the command line to create a Web Application Archive (WAR) file. With Apache and Tomcat running, browse to the Tomcat server management page and upload the WAR file to deploy it.

Appendix III: Test cases

Testing Goal

The goal of Unified University Inventory System Testing is to ensure that the system performs as per the functional requirements specified by client.

Testing Tools

Tested by Rational Quantify Tool

Most cases tested by manual per item.

Functional Requirements Testing (Black box testing)

Code Inspection

Test case	Input	Test Description	Output / Result
code	gets(str)	Description of the procedures and modify Notes	Return=0
process, function command	lenth Len(Text1.Text)	Variable, procedure, function command line with the rules	length = 0
Variable,	time1 Val(Label1.Caption)	Variable, procedure, function command line with the rules	Label1.Caption = 0
Modifying Notes	IUFAID0000000483	Modify the Notes meets the requirements	Table
Class library	jack	Meet the requirements to use the class library	Jack Daniel
Request	Requests waiting for approval	Procedures does not meet the format requirements named	No requests available

home	My Requests	Screen and report format of the required demand	No requests available
------	-------------	---	-----------------------

Search Testing

Test Area	Input	Test Description	Output / Result
Search for numbers	Search='10'	Display all the information.	tested
Search for a decimal	Search="10.08"	Display no results match	tested
Search for an expression	Search="software engineering"	Display all the information or results list	tested
Search for an expression of 1024 characters	Search="computer ... science"	Display results list for 1023 characters .	tested
Search field contains only spaces	Search=" "	Display all and any information	tested
Empty field	Search=" "	Display No results match your criteria	tested

Search for a key word	Search="computer"	Display all the information	tested
-----------------------	-------------------	-----------------------------	--------

Advanced Search Testing

Test Area	Input	Test Description	Output / Result
All Search field contains only spaces	Search=" "	Display any all information	tested
Search for key word	SearchBoxes1,2,3,or 4="computers"	Display all the information and results	tested
Search for sentence or phrase	Searchboxes1,2,3,or4="computer science"	Display all the information and results	tested
If all fields are empty	Search table1to4=""	Display all the information	Tested
Using different logical combination of 2 or more fields	Searchboxes1="xyz" and Searchboxes2="wxyz" or Searchboxes3="uvwxyz"	May display all the information and results list	tested
One or more Search for an expression of 1024 characters	Searchboxes1,2,3,or4="computer programs" ...	Display all the information and results for 1023 characters	tested
One or more Search for a numbers	Searchboxes1,2,3,or4="10 "	Display all the information and results list	tested

One or more Search for a decimal	Searchboxes1,2,3,or4= “ 10.08 ”	Display no results match	tested
One or more Search for an expression of 1024 characters	Searchboxes1,2,3,or4= ”software ... engineering”	Display all the information and results for 1023 characters	tested

Non- Functional Requirements Testing

Special methods exist to test non-functional aspects of software.

Stability testing

Stability testing checks to see if the software can continuously function well in or above an acceptable period. This activity of non-functional software testing is oftentimes referred to as load (or endurance) testing.

Usability

Usability testing is needed to check if the user interface is easy to use and understand.

This test is used to verify if a user that never use the application is able to search and read result list within a reasonable time.

Security testing

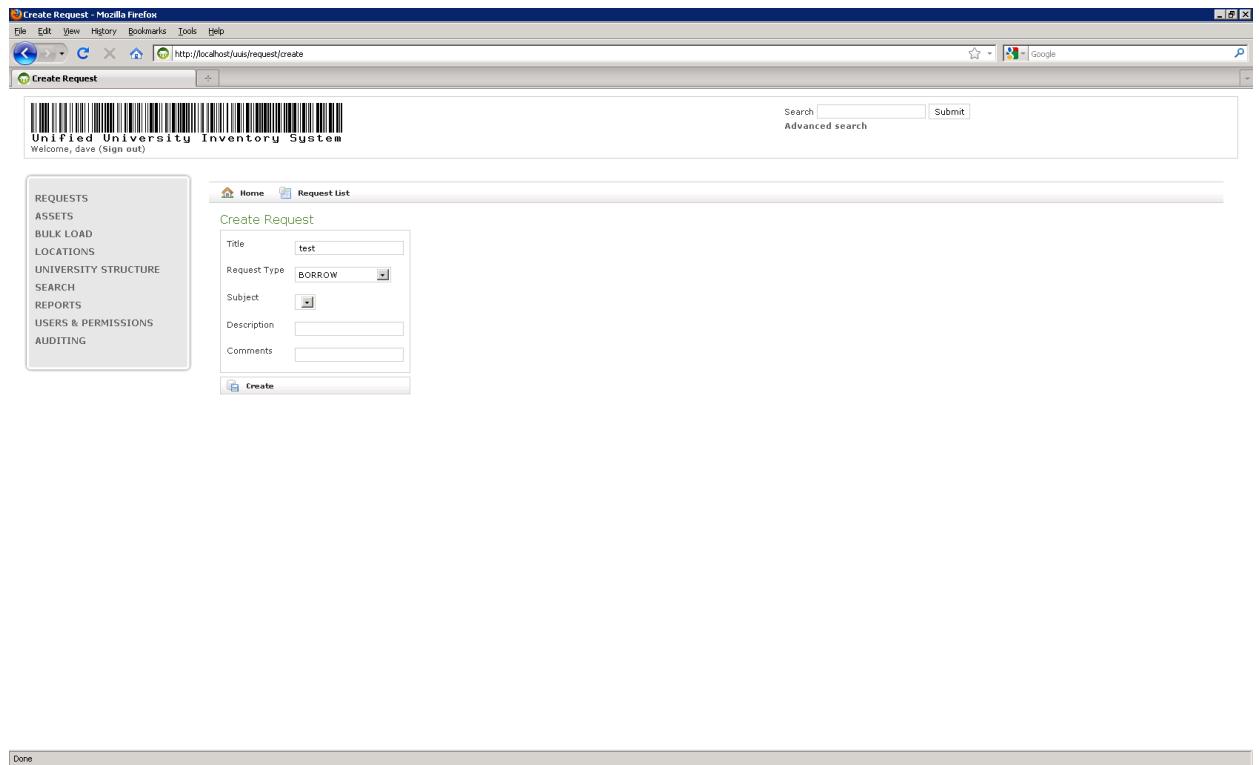
Security testing is essential for software which processes confidential data and to prevent system intrusion by hackers.

Appendix IV: Bug List

The screenshot shows a Mozilla Firefox browser window with the URL <http://localhost/uuis/user/index>. The page title is "Edit User". The main content area displays the "Edit User" form. On the left, there is a sidebar with navigation links: REQUESTS, ASSETS, BULK LOAD, LOCATIONS, UNIVERSITY STRUCTURE, SEARCH, REPORTS, USERS & PERMISSIONS, and AUDITING. The main form has fields for Name (Bing), Username (Bing), Roles (a dropdown menu listing several security roles), Permissions (a dropdown menu with an "Add" button), and Staff Member Of (a dropdown menu listing various university groups). At the bottom of the form are "Update" and "Delete" buttons. A "Done" button is located at the very bottom of the page.

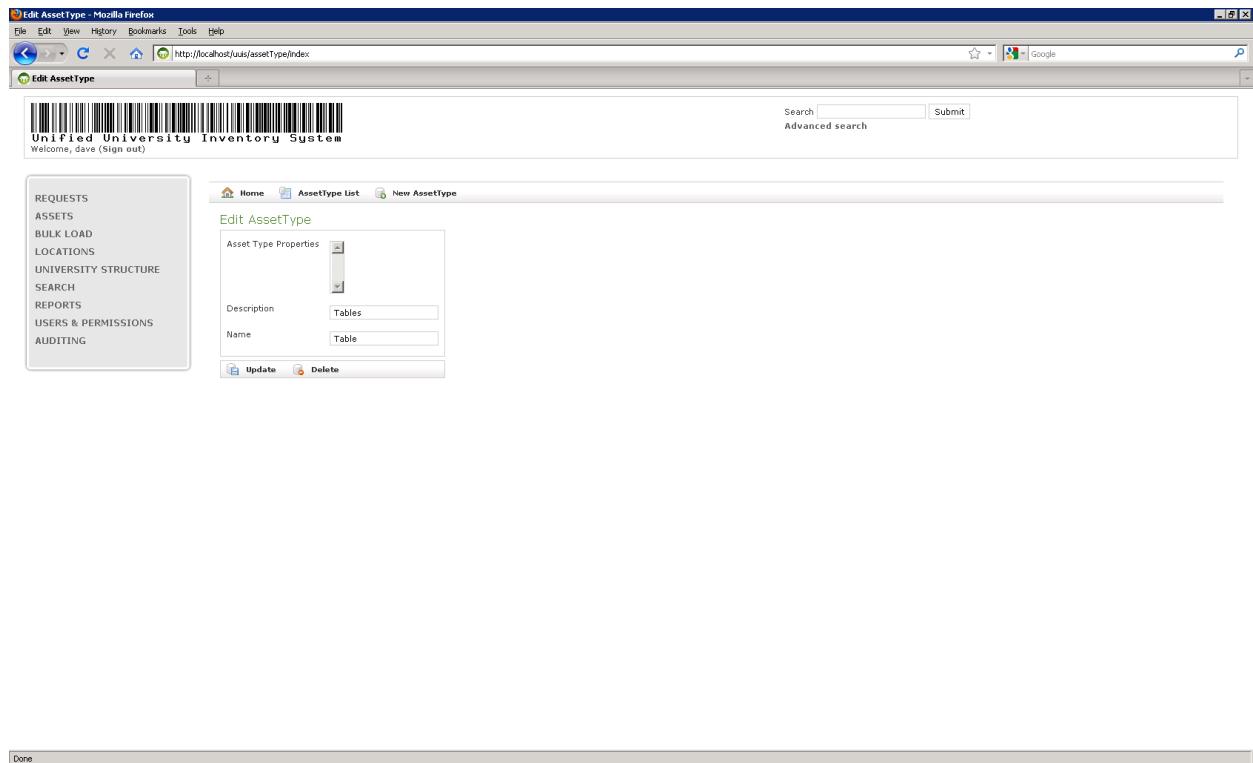
Edit user from the 'users & permissions' module, the roles list is not user friendly.

FIXED



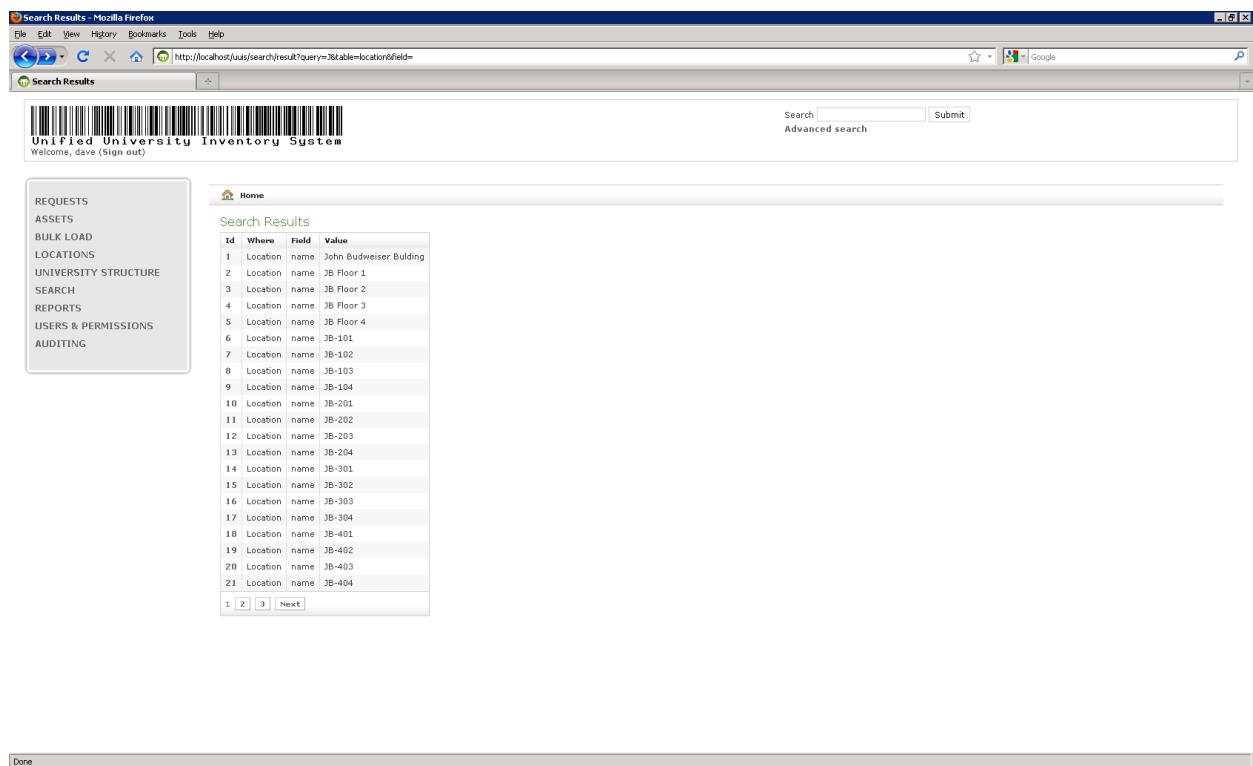
In make new request, the subject drop down list is empty. And when I submit the request, it give me exception.

FIXED



When edit asset type , the properties list is empty

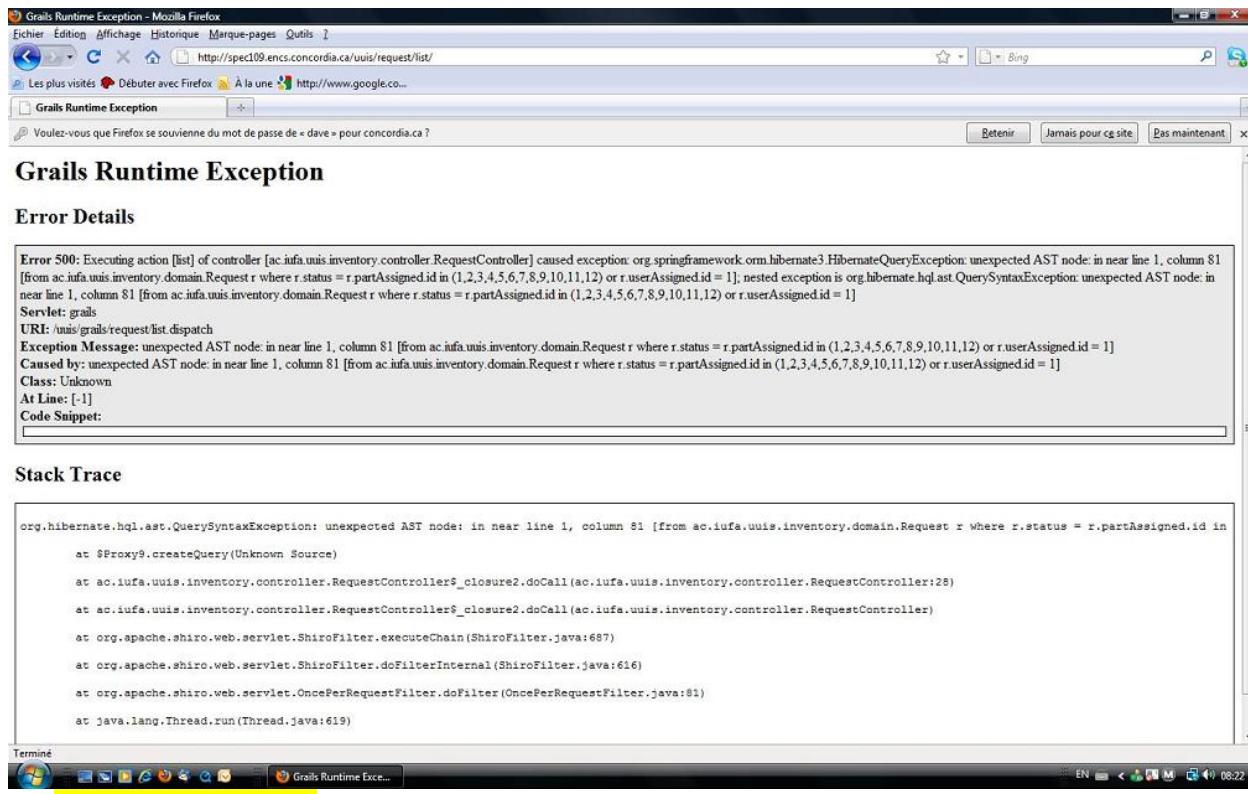
FIXED



In the search module, search J in the location, I've got this list, and when go to the second page, nothing mached.

FIXED

1- when login to the application if type a wrong passwprd for many time it generate an exception and after that you can entre with any password to the system I attach a print screen of the exception

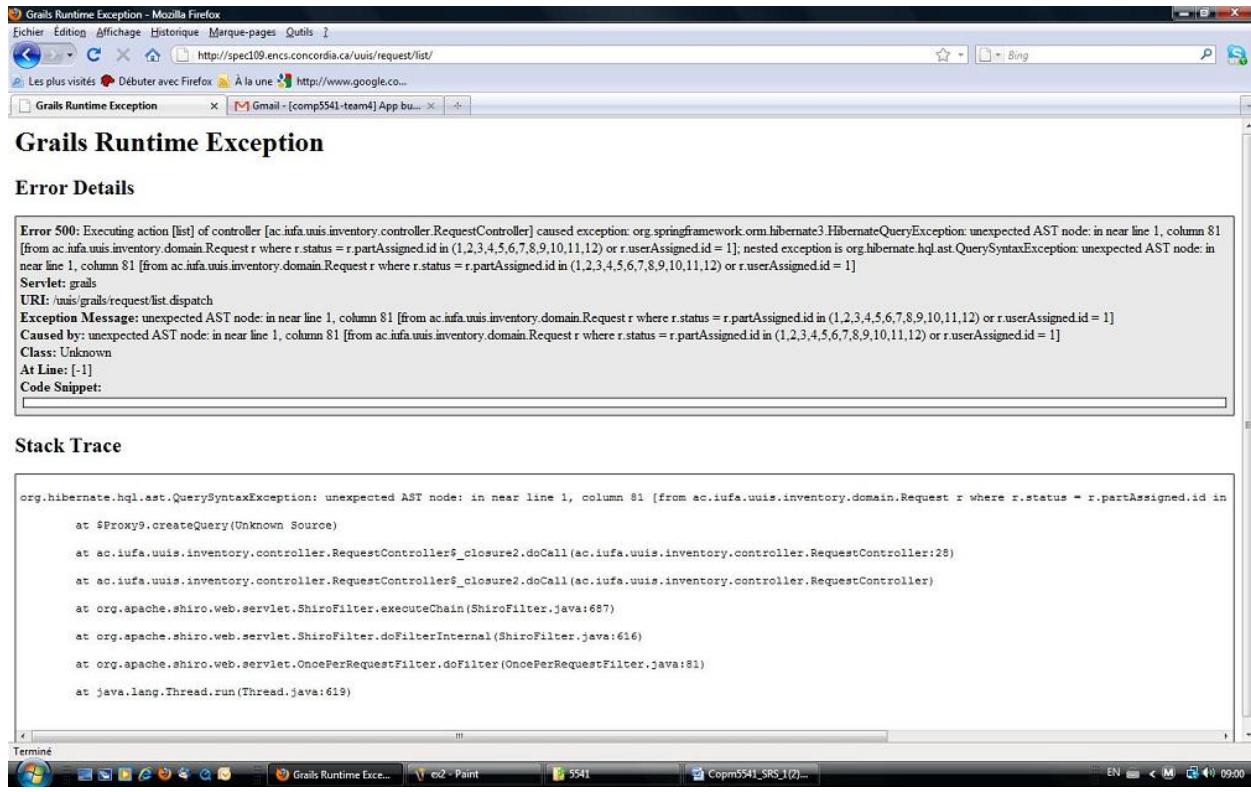


2- on the university structure list if you click on any id an eception is generated (attachment ex2)

FIXED

3- if you click home on the user permission list or anu other screen it generates an exception
(attachment ex3)

CANNOT REPRODUCE



4- how user can change his passord the we cannot edit this field

INVALID DEFECT: The application doesn't need to manage users, any functionality related to this (ex: create user) was included with the sole purpose to test the application, we're considering we import these users from an external system.

5- when you use advenced search if no results are found you have to click on advenced seach again to restart searching

WON'T FIX: This is a minnor issue that will be addressed in later releases. ;-)

6- when you cret a user you alays edit the user it is not considered like level0 user directly

INVALID DEFECT: The level of the user is defined by which University Structure he's head of, if he's head of the University he's level 3, if he's head of a Department he's level 1. When you create a user he's not assigned as head of any University Structure so he's considered level 0 directly. To change this, edit the University Structure to include the user as head.

1- the edit location page, the property list also not user friendly. Please take care of that :)

FIXED

2 - In the create new asset page, the parent drop down list should be location name not id

INVALID DEFECT: The “Parent” field in the create new asset page is used to “group” many assets, ex: I can have a computer and set it as the parent of assets like keyboard, mouse. What is shown in this field is the IUFAID of the parent asset. Use the field “Location” if you want to set the location of the asset.