

User Stories, Analysis & Modelling

25th March 2010



Kin Wan Li, 6499392 Ashley Zoch, 9263136 Mevesh Gopee, 6496954 Damian Ridgwell, 5416531 Edwin Lusala, 6542174

User Stories

This section details key user stories to be implemented in the Unilearn application.

Name	Student submits Assignment Submission
Trigger	Student wishes to submit their assignment submission for assessment.
Script	Student selects to view the details / submission page for the Assignment.
	Submission screen is presented with area to upload file(s).
	Student adds files which are uploaded for their review prior to submission. Student enters comments.
	Student presses the submit button to complete their assignment submission.
	The Student is advised by the system that their submission has been successful. An electronic receipt is provided to the Student. If the submission does not meet the requirements defined for the assignment (e.g. missing files) the Student is advised of the problem and the submission is not completed. The Student may then correct the problem.

Name	Student views their Assignment Results
Trigger	Student wishes to know the result for their assignment submission.
Script	Student selects a unit of study from the list of available units. A summary of assignments is presented.
	Student selects an assignment. The details for this assignment, including their results are presented.
Notes	A Marker must have assessed the submission for the result to be presented, otherwise 'Result Pending' will be shown.

Name	Unit Convenor creates a new Assignment
Trigger	Unit Convenor wishes to create a new assignment.
Script	System prompts the Unit Convenor for the following:
	Unit of Study
	Assignment Title
	Publish Date, Due Date
	Late Penalty parameters
	Description
	Files (such as Assignment Sheet)

Results Template

Unit Convenor enters the required information and either creates the Assignment, saves the Assignment as a draft or cancels the creation of the Assignment.

Name	Marker enters results for a Student's Assignment Submission
Trigger	Marker wishes to assess a Student's Submission
Script	Marker selects the Unit of Study and is presented with a list of students and their assignment results (or other assignment status e.g. not submitted). The Marker opts to upload the mark for that student's submission. The Marker is presented with the assignment results template which they fill in.
	The Marker saves / cancels the result.
Notes	The Marker has a copy of the student's submission files. When the Unit Convenor assigns a student's submission to the Marker for marking the Marker recieves an email alert. The Marker can then access the student's submission files from the UniLearn system. Only the submissions allocated to the Marker can be seen from their UniLearn portal.

Name	Unit Convenor views a Student's Assignment Results for a Unit of Study
Trigger	The Unit Convenor wishes to view the student's results.
Script	System presents a list of units of study. Unit Convenor selects a unit of study from the available list.
	System presents a list of students in the unit of study. Unit Convenor selects a study from the list.
	System presents a report showing the results for each submission for this student in the unit of study.
	Unit Convenor views the report online or prints it.

Name	Administrator creates a new Unit of Study	
Trigger	A new unit of study is required in the system to allow assignments to be created.	
Script	System prompts the administrator for a code and name for the unit of study. Administrator enters the required details.	
	System prompts the administrator to add a Unit Convenor, Markers and Students to the Unit of Study. Administrator selects the appropriate actors from lists.	
	Administrator creates the Unit of Study, cancels its creation or saves it as a draft.	
	All actors (e.g. Unit Convenors, Students) must exist in the system before they can be added to a unit of study.	

Name	Supervisor views Results for a Student across all Units of Study
Trigger	The Supervisor has selected a student and wishes to view their results.
Script	The Student Results report is presented showing the results for all assignments for this student. The user may filter this list to show all or one Unit of Study. The user may save this report as a PDF or print it.

Name	Student receives an Alert to indicate a new Assignment is available
Trigger	Lecturers have uploaded the new assignment in the system and flag it to alert all enrolled student.
Script	System sent email to all enrolled student in the unit and inform there is a new assignment has published
	Student login email account by provide validated account ID and PIN
	Check email

Name	Marker updates Assignment Result for a Student	
Trigger	Marker wishes to assess a student's submission	
Script	Marker selects the Unit of Study and is presented with a list of the students assigned to them by the Unit Convenor. The marker is presented with the assignment results (or other assignment status e.g. not submitted) for each student. The Marker selects the grid cell for the student / assignment and updates their result. The Marker may also enter comments or use the results template to enter additional details.	
	The Marker saves / cancels the result. The Marker is warned that they are overwriting an existing result.	
Notes	The Marker has a copy of the student's submission files. A Result has already been recorded for this student's assignment submission.	

Name	Unit Convenor allocates Assignments to Markers for assessment.
Trigger	The Unit Convenor wishes to assign submissions to Markers for assessment.
Script	Unit Convenor selects the Unit of Study and is presented with a list of students and their assignment results (or other assignment status e.g. not submitted). The Unit Convenor selects one (or a group of) student / assignment submission cells in the grid and assigns them to a Marker allocated to this Unit of Study.

Domain Vocabulary

This section contains a domain vocabulary that explains terms used within the Unilearn problem domain.

11	Averaging a general plant of the Heilmann contains Allega has a legic ID. Allega
User	A user is a person who accesses the UniLearn system. A User has a login ID. A User
	can act as one or more roles in the system. A user can be one or more of the following
	categories, student, convenor, marker, administrator or supervisor.
Student	A student is an individual enrolled in one or more units of study at the university. A
	student submits one or more assignments to be assessed for each unit of study. Email
	,
	address is the attribute in the student entity, as email is one of the important channels
	for the announcement.
Group	A group is two or more students allocated to work on an assignment together.
Course	An academic programme of a specific area, containing a number of units. To complete a
	course the student needs to pass a set number of units of study. A course may have
	entry requirements; however this is outside the scope of the Unilearn system. Course
	will not be modelled in the UniLearn system. It is included in the vocabulary for clarity.
	will not be modelled in the officeant system. It is included in the vocabulary for clarity.
Unit of Study	A Unit of Study is a parios of lectures, and materials or labour a tania. A student's grade
Jilli Ol Study	A Unit of Study is a series of lectures, and materials or labs on a topic. A student's grade
	in the unit of study is a combination of results from assignments, laboratory work,
	examinations and other tasks. A Unit of Study has a code (e.g. HIT8098) and a name
	(e.g. Agile Development Project).
Assignment	An assignment is a task to be completed by a student or group of students in a unit of
	study.
	otady.
Assignment	An instruction sheet containing requirements for the assignment and details on how to
_	
Sheet	complete it.
Assignment	A regult template is included with each assignment as a set of criteria for submissions to
Assignment	A result template is included with each assignment as a set of criteria for submissions to
Results	be marked against.
Template	
Submission	A submission is a solution to the problem stated in an assignment sheet, prepared by a
	student for a unit of study. The student submits this work for assessment. Submissions
	for each assignment are required by a due date, however some assignments allow for
	late submissions, usually with a penalty to the student's result.
Submission	A student's submission is reviewed by a marker against a defined set of criteria (the
	A student's submission is reviewed by a marker against a defined set of criteria (the
Result	results template). A result, consisting of a total numeric value plus comments / details is
	assigned to the submission.
Unit Result	The collation of the student's submission results across the Unit of Study.
Unit Convenor	A unit convenor in an individual who oversees one or more units of study, creating and
	managing assignments.
Marker	A marker is an individual who assesses one or more submissions for a unit of study.
Administrator	An administrator is an individual who administers courses, units of study and accounts
	for actors within the system.
	Tor dotors within the system.
Supervisor	A Supervisor is an individual who uses the system to track performance of other actors,
Super visur	A Supervisor is an individual who uses the system to track performance of other actors,

	such as a student's results and the overall results for a unit of study.
Report	A report is an online or printed document which contains statistical information about other entities within the system.
Due Date	The date when the student must make a submission for an assignment. Submissions made after the date may incur a penalty
Publish Date	The date the assignment sheet is made visible to students.

Domain Model

This domain model shows the key entities in the domain and their relationship. The Submission and Assignment entities are composed of additional entities not show, such as submission files, assignment sheet and assignment results template. A user of the application may fill multiple roles (such as Marker & Unit Convenor). The many-to-many relationship between students and submissions indicates that a group of students may submit an assignment.

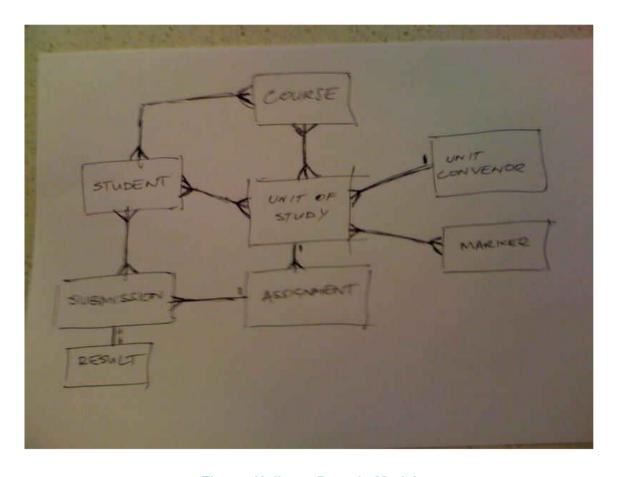


Figure Unilearn Domain Model

Screen Designs / Report Layouts

This section shows mock-ups of screens and layouts in the application.



Figure Create an Assignment

This mock-up shows the user interface for the **Unit Convenor creates a new assignment** user story. The user enters or selects appropriate data in each field, uploads any required files and saves the assignment as a draft, creates or cancels it.

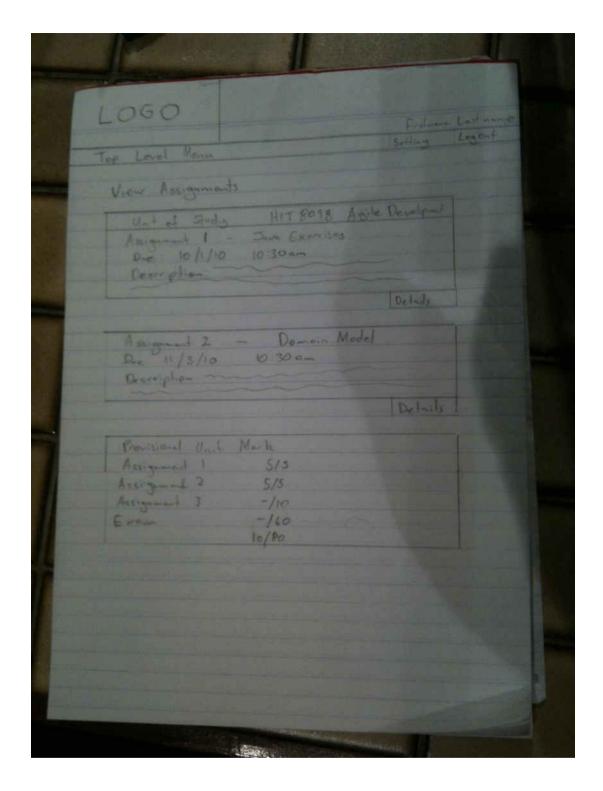


Figure View Assignments (List)

This mock-up shows the user interface for the **Student views their assignment results** user story. The user selects a Unit of Study and is presented with a summary list of the assignments. The user can then select an individual assignment to view their results, submission and additional details.

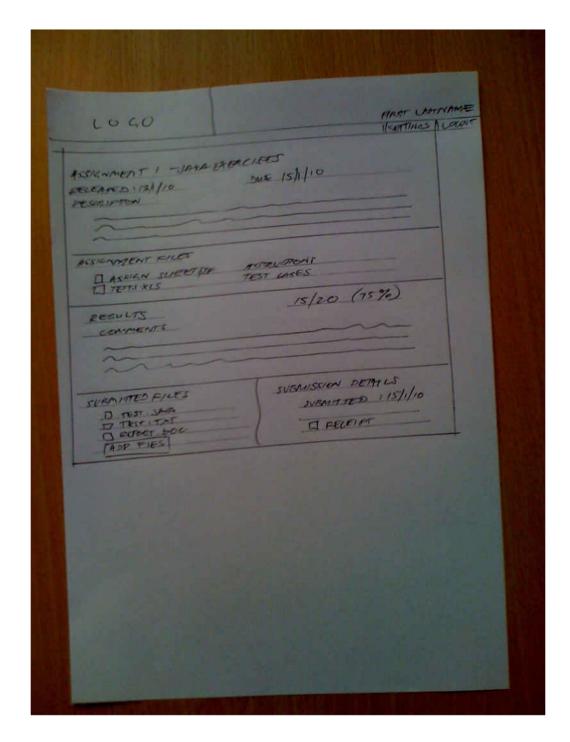


Figure View Assignment Details

This mock-up shows the user interface for the **Student submits assignment submission** and **Student views their assignment results** user story. The Assignment details such as Assignment Sheet and other files are available to the user.

If a submission has been made by the user for this assignment; the submitted files and submission details (submission date, receipt) are also presented. Once submitted the files cannot be changed.

If the submission has been assessed, the results are also presented.

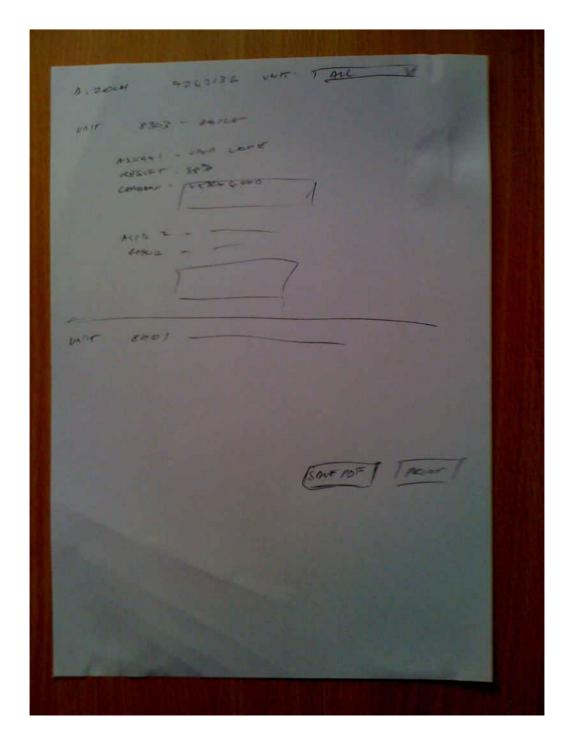


Figure Student Assignment Results Report

This mock-up shows the user interface and report format for the **Supervisor views results for a student across all units of study** user story. The user has previous selected a student from a list or by searching. The student's assignment results are shown sorted by Unit of Study. The user may filter the results on all or a single Unit of Study. The report can then be printed or saved as a PDF document.

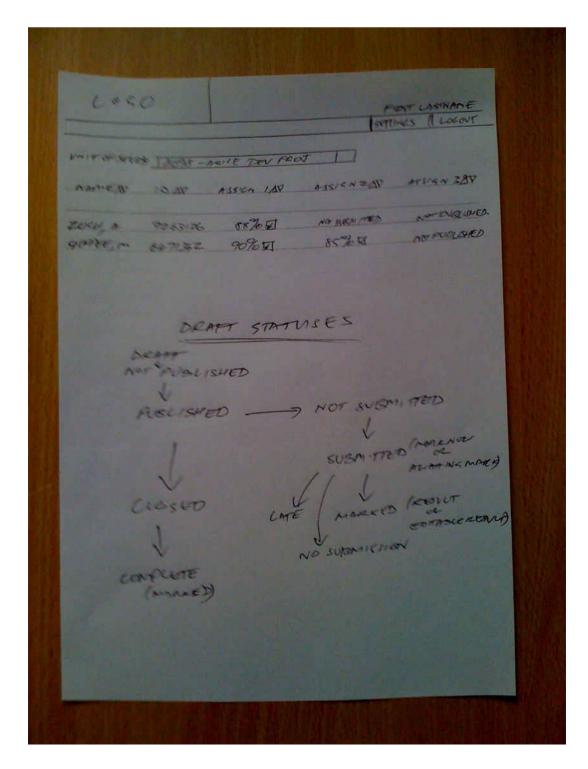


Figure View Student Assignment Results

This mock-up shows the user interface and report format for the Marker enters results for a student's assignment, Unit Convenor views a student's assignment results for a unit of study and Marker updates assignment result for a student user stories. The Unit of Study is selected and a list view of the students enrolled is presented. This list may be sorted on each field (denoted by the small arrows in the field title). A column is shown for each Assignment in this Unit of Study. In this column, the status of the student's submission is shown. A draft of the statuses for Assignments and Submissions is also included in this diagram. The user can click the status to make changes (based on the system's business rules and user privileges). For example, a Marker may enter a result on this page. A small box next to the result can be clicked to bring up a page showing comments and a results template.

Architectural Model

The component model focuses on identifying the initial architectural landscape of the system. In this case, the main components identified and pictured below are:

- Reporting
- Staff Module
- Student Submission processor
- Alerts (through email or text messaging)

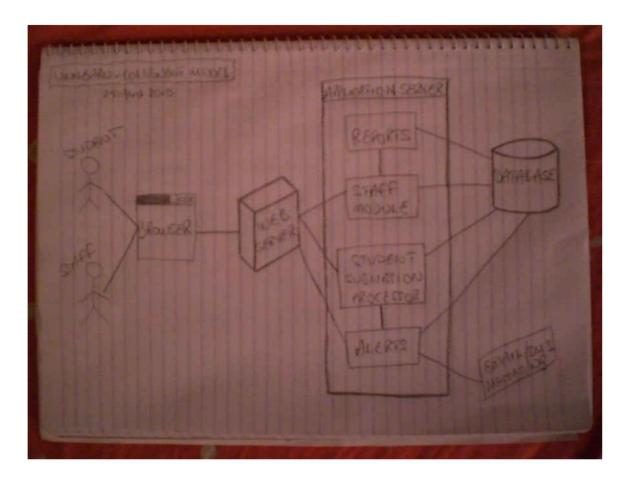


Figure Unilearn Architectural Model

As pictured above, there are various interactions between the users, the browser, the web server, the application server and the database. The users will make requests via the web browser, which will then contact the web server. Based on the requests made, the web server will either pick the staff module or the student submission processor to accomplish the requests.

As an example, a staff member queries a report about the number of students who have submitted their assignments for a particular unit of study, the web server will call the staff module, which will then call the reports module to extract the report from the database.

If a student wants to submit an assignment, he will make the request via the web server, which will call the student submission processor module to be able to upload the assignment to the database.

If a Unit Convenor uploads an assignment online, the staff module will be called and the assignment will be stored in the database. Meanwhile a request can also be made via the web server to send alerts to students via email or text messaging.