



D3: REQUIREMENTS DOCUMENT

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Team	V
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1 Introduction

1.1 Identification

Requirements specification for the internship system for PSD3 team project.

1.2 Related Documentation

PSD3 Group Exercise Description <http://fims.moodle.gla.ac.uk/file.php/128/coursework/psd3.pdf>

Deliverables Template <http://fims.moodle.gla.ac.uk/file.php/128/coursework/templates.zip>

PSD3 Course Notes <http://fims.moodle.gla.ac.uk/file.php/128/lecture-notes/notes-r3275.pdf>

1.3 Purpose and Description of Document

The purpose of this document is to detail and explain the requirements collected for the internship advert system. This will include all the actors within the system, their use cases and descriptions, and scenarios which would be suitable for the system.

1.4 Document Status and Schedule

Date	Change	Version
25/10/2012	Began Draft	0.1
30/10/2012	Initial Draft Completed	0.2
10/11/2012	Finalised for Submission	0.3
11/11/2012	Draft Submission Deadline	1.0
...	Revision	
29/11/2012	Final Submission Deadline	

2 Extended Problem Definition

A program is needed to manage internship adverts posted by companies that students can then search through and then apply if they are interested. In order for this program to be successful it requires a login system that allows a company to submit, edit or remove their adverts. Submitted adverts are then reviewed by the Course Co-ordinator. If deemed relevant they will be added to the list of adverts for students to see. Applying will send the students details to the company to register their interest. The course co-ordinator will remove any adverts that have been filled or whose deadlines have expired.

3 System Scope

TO DO!

Give an overview of the system here, in the context of the surrounding environment. Use case diagrams can be used to illustrate the interactions between actors in the environment and the system. You should

explain the assumptions you have made in defining the boundary of the system (i.e. what the system will and will not do). Describe any conflicts in requirements expressed by different stakeholders, how you resolved them and why.

3.1 System Actors

Course Coordinator: Responsible for the management of adverts on the system.

Students: Uses the system to browse the list of internship adverts and apply.

Company: Submits adverts for moderation.

3.2 Domain Model

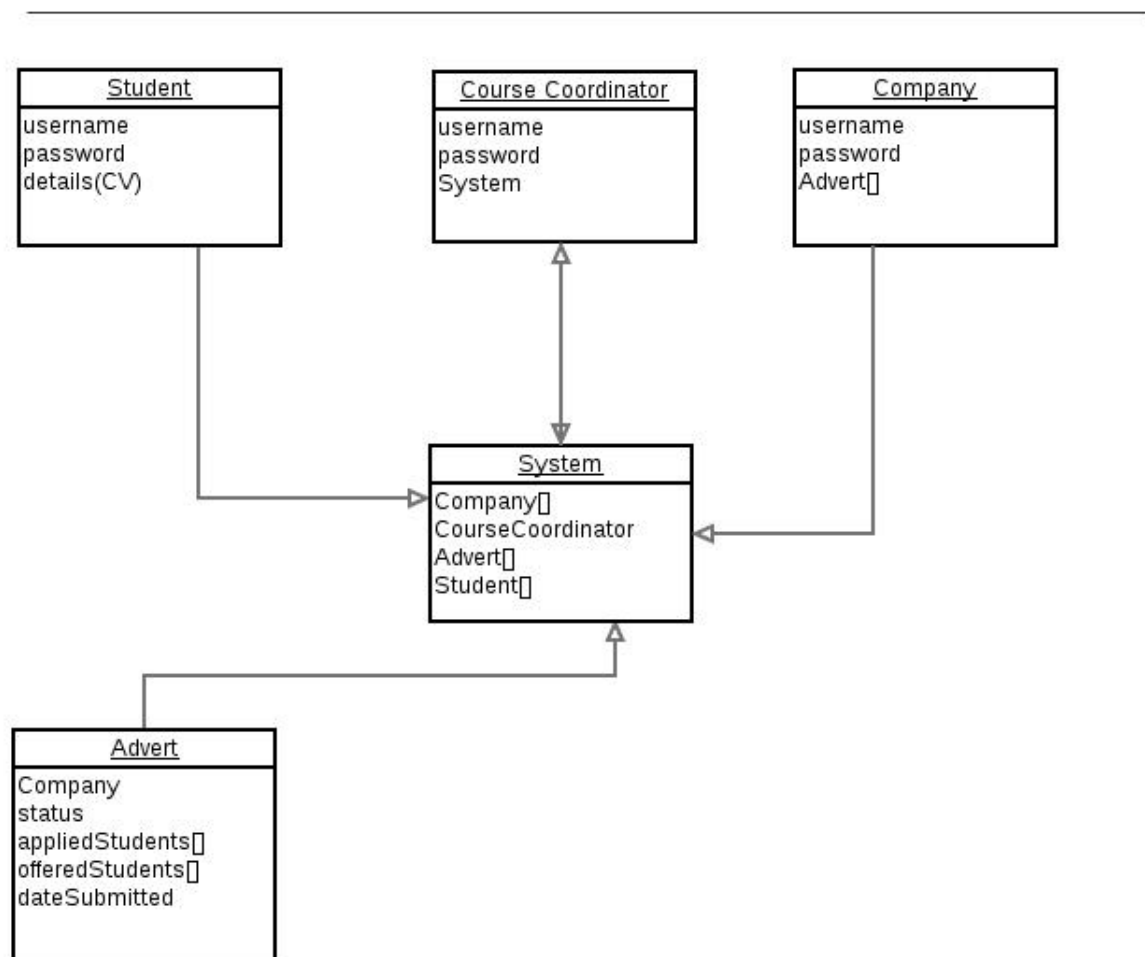


Figure 1: Domain model

Explain the elements of the domain here.

4 Use Case Descriptions

This section describes the required functionality for the Student Internship Advert System as four groups of related use cases. The core use cases for the system are:

Submission of internship advertisements (Section 4.1):

- Submit adverts to the system
- Edit adverts submitted to the system
- remove adverts from the system

Review, comment and publication of internship advertisements by Course Coordinator (Section 4.2) :

- Review company internship adverts
- Approve internship adverts

Review of Advertisement by Student (Section 4.3) :

- Review internship adverts list
- Apply for internship adverts
- Flag unsuitable/inappropriate adverts

Notification of successful selection for an internship by an SE/ESE student (Section 4.4) :

- Notify course coordinator of successful placement
- remove/close adverts

Common utility services (Section 4.5) :

- Login
- Logout

4.1 Submission of internship advertisements

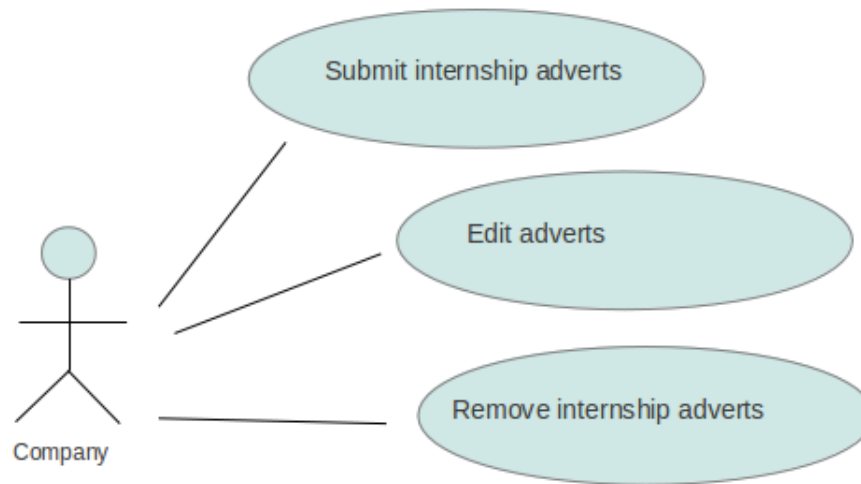


Figure 2: Use Case Diagram 4.1

Use case	Submit application
Description	A company should login and post internship adverts to the system, confirm it and logout.
Rationale	A company must be able to post their internship adverts on the system in order for students to apply for them, if suitable.
Priority	Must have
Status	Not implemented
Actors	Company
Includes	Login/Logout
Conditions	Post: Course coordinator needs to review adverts to determine whether or not it is suitable for students.
Non-Functional Requirements	
Scenarios	
Risks	Company may post internship adverts that may not be suitable for students.

Use case	Edit adverts submitted to the system
Description	A company must login, make changes to their advert where necessary, confirm changes and then logout.
Rationale	A company must be able to make changes to their advert in order to include more information about it or remove irrelevant/incorrect details.
Priority	Must Have
Status	Not implemented
Actors	Company
Includes	Login/Logout
Conditions	Pre: Company must have uploaded their advert to the system. Post: The amended advert will now be reviewed (again) by the course Coordinator.
Non-Functional Requirements	
Scenarios	
Risks	

Use case	Remove adverts from the system
Description	A Company should login, select an option to remove their advert from the system, confirm this and then logout.
Rationale	A company should be able to remove their advert from the system if the position has been taken and/or the internship is no longer available.
Priority	Must Have
Status	Not Implemented
Actors	Company
Includes	Login/Logout
Conditions	Post: Advert should no longer be available on the system.
Non-Functional Requirements	
Scenarios	
Risks	Company may remove the wrong advert. Advert may not be successfully removed.

4.2 Review, comment and publication of internship advertisements by Course Coordinator

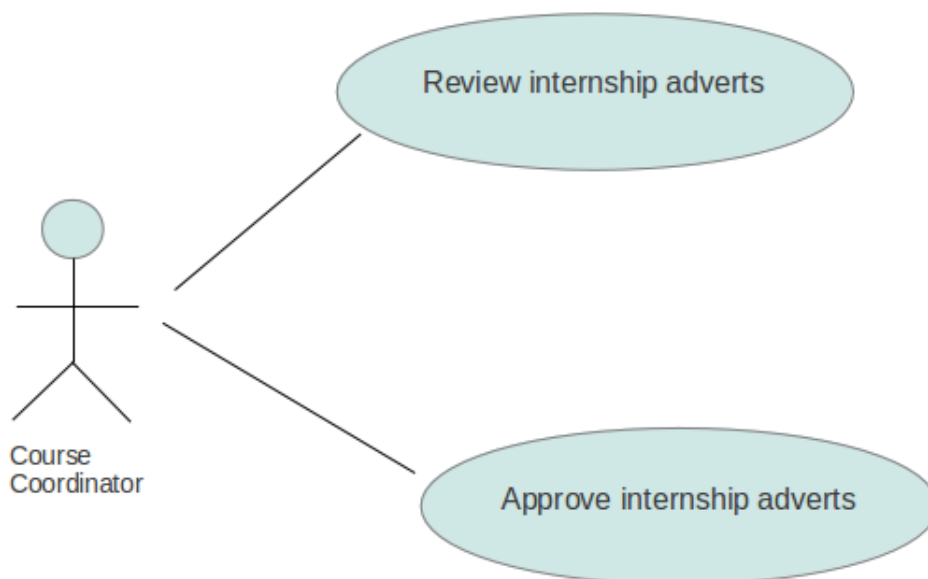


Figure 3: Use Case Diagram 4.2

Use case	Review company internship adverts
Description	Course coordinator must login, read through new/edited adverts posted and decide if they are suitable for the students.
Rationale	A member of the school of computing science (course coordinator) must review all adverts to ensure they are suitable for ESE/SE students.
Priority	Must have
Status	Not implemented
Actors	Course Coordinator
Includes	login/logout
Conditions	Pre: company must post adverts to the system. Post: adverts are made available to the students.
Non-Functional Requirements	
Scenarios	
Risks	

Use case	Approve internship adverts
Description	Course Coordinator must login. After reviewing the adverts and deciding they are suitable, the adverts are made available to the students.
Rationale	A member of the school of computing science (course coordinator) is responsible for making adverts available for the students so they can view and apply for the internships.
Priority	Must have
Status	Not implemented
Actors	Course coordinator
Includes	Login/logout
Conditions	Pre: company upload adverts to the system. Pre: adverts reviewed by course coordinator
Non-Functional Requirements	
Scenarios	
Risks	Course coordinator may accidentally approve an unsuitable advert.

4.3 Review of Advertisement by Student

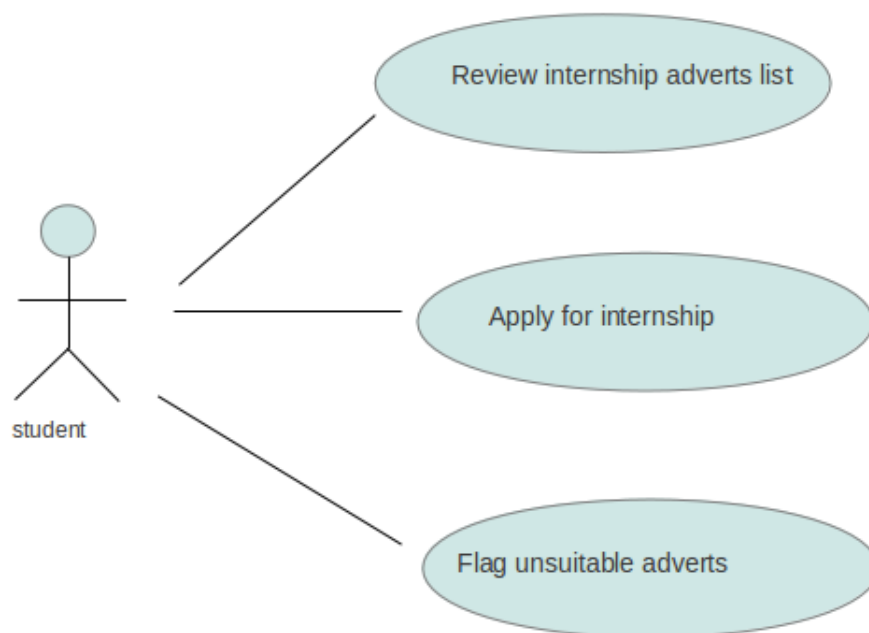


Figure 4: Use Case Diagram 4.3

Use case	Review Advert List
Description	List of adverts is displayed on screen and users scrolls through and can read detailed information about the internship.
Rationale	User needs to be able to see the adverts in order to apply.
Priority	Must Have
Status	Not Implemented
Actors	Student
Includes	Login/Logout, Apply
Conditions	Pre: adverts have been approved by the CC. Post: student can apply for internship.
Non-Functional Requirements	
Scenarios	
Risks	

Use case	Apply for Adverts
Description	User selects an advert to apply for and will then have to email the company or will be directed to the company website to apply
Rationale	Student must be able to see all details for the advert, including an email address and/or website in order to apply for the placement.
Priority	Must Have
Status	Not Implemented
Actors	Student
Includes	Login/Logout
Conditions	
Non-Functional Requirements	
Scenarios	
Risks	The email/website may be incorrect so student may not be able to apply.

Use case	Flag Inappropriate Advert
Description	Let course coordinator know an advert is not appropriate for its current category (if, for example it is categorised as SE suitable but it shouldnt be).
Rationale	A student can let the Course Coordinator know there is something wrong with an advert on the system.
Priority	Could have.
Status	Not Implemented
Actors	Student
Includes	Login/Logout
Conditions	Pre: The inappropriate advert must be still visible on the system.Post: Course Coordinator is notified.
Non-Functional Requirements	
Scenarios	Student logs in to the system, finds an advert that is misplaced or does not fulfil the School of Computing Science placement guidelines and flags it.
Risks	Student might abuse this functionality by flagging random adverts .

4.4 Notification of successful selection for an internship by an SE/ESE student

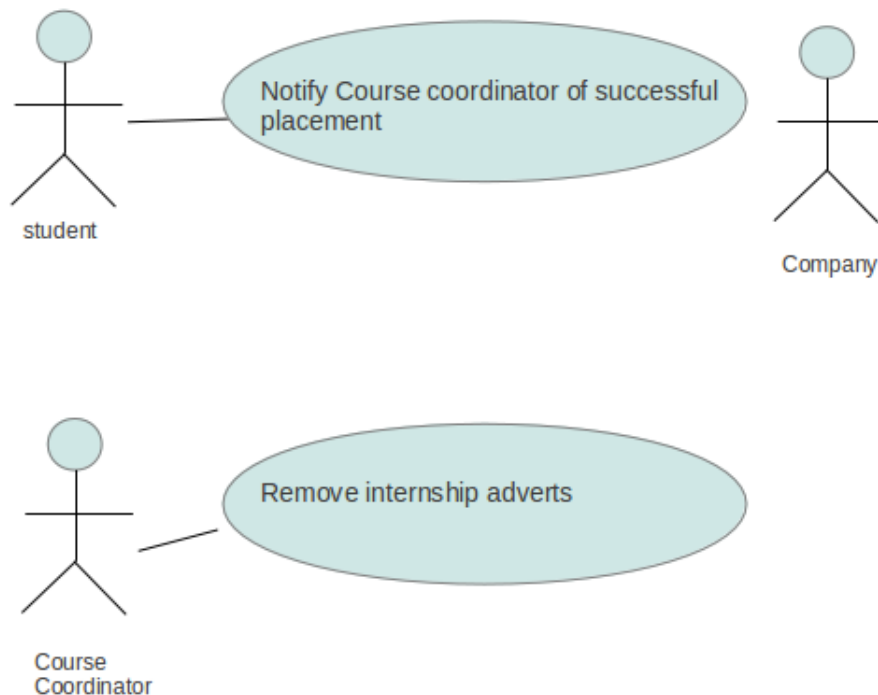


Figure 5: Use Case Diagram 4.4

Use case	Notify Course Coordinator for Successful Application
Description	Let course coordinator know a Placement position has been filled.
Rationale	A student should let the Course Coordinator know that they were successful with their application for a specified placement position so that the CC can go on and remove the advert from the System.
Priority	Must have.
Status	Not Implemented
Actors	Student
Includes	Login,Logout
Conditions	Pre: The advert for the placement position that was taken must be still visible on the system. Post: Course Coordinator is notified.
Non-Functional Requirements	
Scenarios	
Risks	

Use case	Remove internship adverts
Description	Course Coordinator logs in to system. If advert is passed deadline or no longer suitable or available, the advert will be taken off the system and then log out.
Rationale	A member of the school of computing science (course coordinator) is responsible for taking adverts down so as to avoid students applying for internships that are no longer available or suitable.
Priority	Must have
Status	Not implemented
Actors	Course coordinator
Includes	login/logout
Conditions	Pre: The applications deadline for a placement has passed or a company has confirmed an offer of position to a student and the student has confirmed he/she accepted the position. Post: The advert is no longer visible on the system.
Non-Functional Requirements	
Scenarios	
Risks	Course Coordinator might remove the wrong advert.

4.5 Common utility services

Use case	Login
Description	A user should enter their login id and a password to allow them to access the system.
Rationale	
Priority	Must have
Status	Not implemented
Actors	Company, Students, Course Coordinator
Includes	
Conditions	Post: The user is logged in if correct credentials are provided.
Non-Functional Requirements	
Scenarios	
Risks	

Use case	Logout
Description	The logout use cases changes a users account to logged out, requiring them to have to log back in to the system. Logout is either invoked by the user or by the internal inactivity timer actor.
Rationale	The logout case will allow a user to leave the system to prevent unauthorised access from an unattended terminal.
Priority	Must Have
Status	Not implemented
Actors	Company, Students, Course Coordinator
Includes	
Conditions	Pre: User logged in. Post: User is logged out.
Non-Functional Requirements	
Scenarios	
Risks	

5 Non Functional Requirements

- **User Concurrency:** The system should be available to all Students of the School of Computing Science and a large number of users might want to use the system at the same time so the System should be able to handle a large number of users at once.
- **Security:** Students should be able to log in with their GUIDs and passowrds which would be the same used for other University of Glasgow websites such as Moodle and MyCampus. Employers who wish to use the system to post placement adverts will need to be provided with new usernames and passwords in order to use the system.
- **Number of Adverts:** The system must be able to handle an unlimited number of adverts. Any number of companies might offer placement opportunities for students each year therefore the number of adverts that can be posted on the system must not be limited.
- **Advert Removal:** The course coordinator will be responsible for manually removing an advert from the system when the position is filled.

6 Summary

A company should upload their adverts to the system. The course coordinator will review all adverts posted to the system and determine whether or not they are appropriate for the students. If appropriate, the CC makes the advert available for the students to view. If a student wants to apply for an advert, they will email the company or apply through their website. If a student successfully secures a placement, they must notify the course coordinator. If all placements have been filled, the CC can take the adverts off the system.

A Glossary

CC - Course Coordinator

B Stakeholder Interview Documentation

Key points we got from our interview with the client are:

- The company does not directly interact with the system.
- The Course Coordinator will review adverts sent via email and if they are suitable, would then be posted on the system.
- When applying for internships, students will be redirected to the company website or given an email address in order to send in their CV.
- Students will be able to flag inappropriate adverts to the CC.
- Students will notify the CC of a successful placement via email.
- The Company must also verify a successful placement to avoid students abusing the system.
- Once a student has accepted a placement, the advert is taken off the system.

C Stakeholder Panel Documentation

Originally, we were informed that the company would not interact with the system, all adverts would be submitted via email to the course coordinator. However, at the stakeholder meeting it was clarified that the company would interact with the system. The company will be given a username and password and will be able to post their adverts directly to the system. They will have to fill out a standard form with all the relevant information before submitting the advert. The course coordinator will then review it to determine whether or not it is relevant for the students. If so, the adverts is made available to the students.