University *of* Glasgow | Department of Computing Science

D2: PROJECT PLAN

Deliverable ID	D2
Deliverable Title	Project Plan
Project	PSD Group Exercise 1
Team	X
Authors	Ross Adam Andrew Gardner Nicole Kearns Mamas Nicolau Asset Sarsengaliyev ...
Deliverable Date	10 January 2009
File Name	d2.tex
Version	

Contents

1 Introduction

1.1 Identification

Project plan 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-ge-1-rev3278.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 tasks which will be involved in the development of the intenship sytem and to identify and explain any risks which may be involved.

1.4 Document Status and Schedule

Date	Change	Version	Author
02/10/2012	Began Draft	0.1	All
09/10/2012	Initial Draft Completed	0.2	All
10/10/2012	Finalised for Submission	0.3	All
11/10/2012	**Draft Submission Deadline**	1.0	All
26/11/2012	Completed introduction section	1.1	All
26/11/2012	Modified and Added Tasks	1.2	All
	ADD MORE HERE!		All
	Finalised for Submission		All
29/11/2012	**Final Submission Deadline**		

2 Resources, Budgets, Schedules and Organisation

2.1 Work Breakdown Structure

Describe the logical structure for managing acquisition and development (or relevant subsection thereof) by means of a Work Breakdown Structure (WBS) scheme that is coordinated with the resource allocation described in Subsection 2.2. An activities-oriented rather than an organisation- or product oriented WBS is recommended. The level of detail given in the WBS should be sufficient to support sound management practices.
For purposes of the WBS, identify the activities to be undertaken. Define these in terms of a descriptive statement in operational terms of activities and identification of the products to be delivered or outcomes of the activity.

For each activity give:

- an identifying label;
- a descriptive statement in operational terms (what needs to be done);
- identification of outcomes, including deliverables; and
- a brief risk assessment.

For example, using the PSDTask environment (defined in this document's header):

Task 1:	***Breakdown of Initial Problem Definition***
Description:	Discussing the initial problems and forming our own ideas of how to approach the client's task.
Outcomes:	Problem breakdown.
Deliverables:	None
Risk:	Own interpretation of problem might be wrong.
Task 2:	***Identify Initial Requirements***
Description:	Using the initial problem definition, identify what the basic features of the system should be.
Outcomes:	Inital requirements list
Deliverables:	None
Risk:	Our list of basic requirements of the system may be incorrect.
Task 3:	***Prepare Interview Plan***
Description:	Construct questions for Customer Liaison to ask the client in order to elicit requirements. Questions will then be approved by group. An interview plan will then be written consisting of these questions.
Outcomes:	Interview Plan document.
Deliverables:	None
Risk:	Questions may be in inappropriate may be too many or too few questions.
Task 4:	***Conduct Interview***
Description:	Meeting with client to collect requirements using the Interview Plan document. If additional information is revealed plan document will be deviated from.
Outcomes:	Interview notes - system requirements
Deliverables:	None
Risk:	Client might be unclear or provide incorrect specifications.
Task 5:	***Review Interview Notes***
Description:	Look over the notes gathered in the interview with the client and the initial requirements.
Outcomes:	None
Deliverables:	None
Risk:	
Task 6:	***Produce Requirements Post Interview***
Description:	Produce a document containing all requirements gathered for the system from the client interview.
Outcomes:	Requirements document
Deliverables:	None
Risk:	

Task 7:	***Review Initial Requirements***
Description:	Check over the requirements document to ensure it contains all requirements for the system, and that they are appropriate for the system
Outcomes:	
Deliverables:	None
Risk:	
Task 8:	***Create UML of Internship Management System***
Description:	Produce a UML diagram of the system to show the structure of the internship system
Outcomes:	UML diagram
Deliverables:	D3
Risk:	
Task 9:	***Create Use Cases***
Description:	For each of the requirements gathered, produce a use case containing all appropriate information ie. description, actors, conditions,etc
Outcomes:	Requirements Specification
Deliverables:	D3
Risk:	
Task 10:	***Create Use Case Diagrams***
Description:	Produce use case diagrams to show the relationship between different use cases and the actors involved.
Outcomes:	Requirements Specification
Deliverables:	D3
Risk:	
Task 8:	***Prepare Stakeholders Panel Interview Questions***
Description:	Come up with a few key questions about the system/requirements we are unsure about to ask the clients. Allows us to clarify the requirements we have are correct.
Outcomes:	Stakeholder panel Questions
Deliverables:	None
Risk:	
Task 12:	***Attend Stakeholders Panel Interview***
Description:	Allow the teams to ask questions about the system that maybe were not clear in the interview; or ask questions which they forgot about during the interview.
Outcomes:	Stakeholder panel notes
Deliverables:	None
Risk:	
Task 13:	***Review Notes from Stakeholders Panel Interview***
Description:	Go through the notes from the stakeholder panel and amend the requirements document where necessary.
Outcomes:	
Deliverables:	None
Risk:	Own interpretation of problem might be wrong.

Task 14:	***Finalise all Requirements***
Description:	Gather all requirements from the interview and the stakeholder panel and ensure that all the requirements are included in the document
Outcomes:	Final Requirements Document
Deliverables:	
Risk:	Client might be unclear or provide incorrect specifications.
Task 15:	***Finalised UML of Internship Management System***
Description:	Modified the UML diagram to suit the requirements gathered at the stakeholder panel
Outcomes:	UML diagram
Deliverables:	D3
Risk:	
Task 16:	***Finalised Use Cases***
Description:	Modified the use cases to suit the requirements gathered at the stakeholder panel
Outcomes:	Requirements Specification
Deliverables:	D3
Risk:	
Task 17:	***Finalised Use Case Diagrams***
Description:	Modified the use case diagrams to suit the requirements gathered at the stakeholder panel
Outcomes:	Requirements Specification
Deliverables:	D3
Risk:	
Task 18:	***Finalise Requirements Specifications Documents***
Description:	Check over the requirements specification to ensure it is correct and contains all relevant information for the use cases, and that the use case diagrams match the information in the descriptions.
Outcomes:	Requirments Specificaiton
Deliverables:	D3
Risk:	
Task 19:	***Research Bash Scripting***
Description:	Learn how to do bash scripting in order to create a prototype to show the client the basic functionality of the system and the workflow.
Outcomes:	None
Deliverables:	None
Risk:	
Task 20:	***Create Bash Prototype***
Description:	Creating the first actual prototype of the application written in Bash Scripting Language.
Outcomes:	Bash Prototype created
Deliverables:	D4
Risk:	Developer might create an application which is not according the specifications.

Task 21:	***Test Bash Prototype***
Description:	Allow someone to test the prototype created in order to ensure there are no bugs and works as expected.
Outcomes:	
Deliverables:	D4
Risk:	
Task 22:	***Demonstrate Bash Prototype to Customer***
Description:	Giving the Customer a first view of how the application functions. The customer will have the opportunity to ask questions and the customer liaison will be available to give answers
Outcomes:	Bash Prototype demonstrated to Customer
Deliverables:	D4
Risk:	******* TO DO *******.
Task 23:	***Review Notes from customer about Bash Prototype***
Description:	***TO DO***
Outcomes:	
Deliverables:	D4
Risk:	

2.2 Resource Estimation and Allocation to WBS

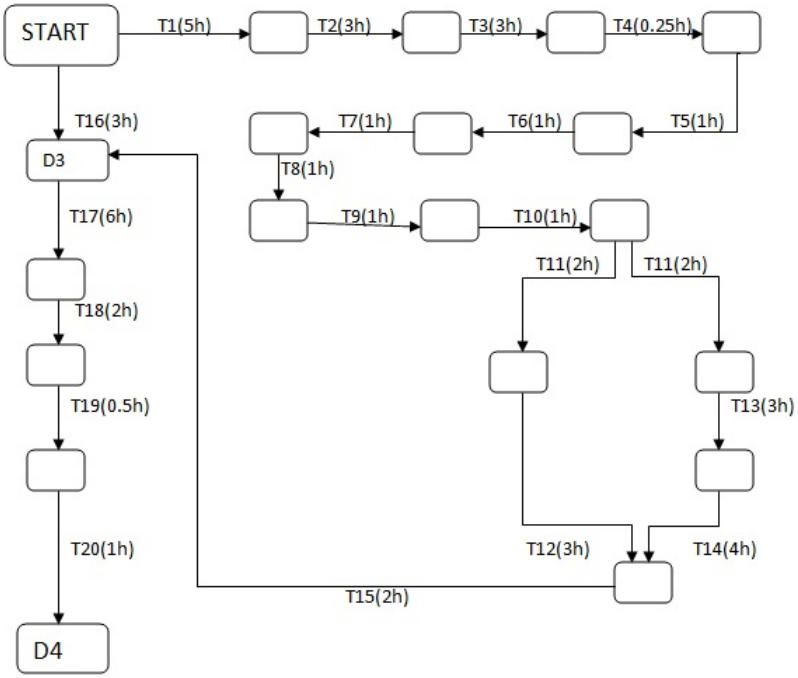
The purpose of this subsection is to list and describe the resources available to support the activities defined in the WBS. The resources may include team members involved in the activity, roles assigned and estimated overall effort (in person days or other appropriate measure).

2.3 Schedules

Table 1: Tasks Table

Task	Title	Hours	Depend	Team Members
1	Breakdown of Initial Problem Definition	5:00	-	All
2	Identify Initial Requirements	3:00	1	All
3	Prepare Interview Plan	3:00	2	Ross Adam, Nicole Kearns, Asset Sarsengaliyev
4	Conduct Interview	0:15	3	All
5	Review Interview Notes	1:00	4	All
6	Produce Requirements Post Interview	1:00	5	All
7	Review Initial Requirements	1:00	6	All
8	Create UML of Internship Management System Internship Management System	3:00	7	Asset Sarsengaliyev, Nicole Kearns, Andrew Gardner
9	Create Use Cases	2:00	7	Nicole Kearns, Ross Adam
10	Create Use Case Diagrams	2:00	9	Andrew Gardner, Mamas Nicolaou
11	Prepare Stakeholders Panel Interview Questions	1:00	7	All
12	Attend Stakeholders Panel Interview	1:00	11	All
13	Review Notes from Stakeholders Panel Interview	1:00	12	All
14	Finalise all Requirements	2:00	13	All
15	Finalise UML Diagram of Internship Management System	1:00	14	All
16	Finalise Use Cases	1:00	13	Andrew Gardner, Mamas Nicolaou,
17	Finalise Use Case Diagrams	1:00	16	Nicole Kearns, Ross Adam,
18	Finalise Requirements Specifications Documents	2:00	15,17	Ross Adam
19	Research Bash Scripting	3:00	-	Andrew Gardner
20	Create Bash Prototype	6:00	19,18	Andrew Gardner
21	Test Bash Prototype	2:00	20	Mamas Nicolaou
22	Demonstrate Bash Prototype to Customer	0.30	21	All
23	Review Notes from customer about Bash Prototype	1:00	22	All

2.4 Pert Chart

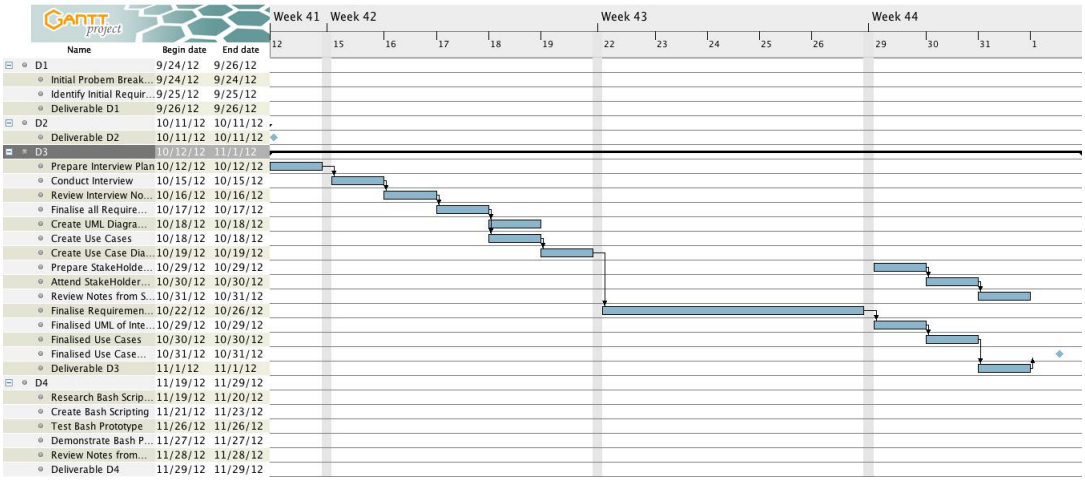


2.5 Gantt Chart

D1.jpg


GANTT project
Week 41
11
Name
Begin date
End date
D1 9/24/12 9/26/12
Initial Probem Break... 9/24/12 9/24/12
Identify Initial Requir... 9/25/12 9/25/12
Deliverable D1 9/26/12 9/26/12
D2 10/11/12 10/11/12
Deliverable D2 10/11/12 10/11/12
D3 10/12/12 11/1/12
Prepare Interview Plan 10/12/12 10/12/12
Conduct Interview 10/15/12 10/15/12
Review Interview No... 10/16/12 10/16/12
Finalise all Require... 10/17/12 10/17/12
Create UML Diagra... 10/18/12 10/18/12
Create Use Cases 10/18/12 10/18/12
Create Use Case Dia... 10/19/12 10/19/12
Prepare StakeHolde... 10/29/12 10/29/12
Attend StakeHolder... 10/30/12 10/30/12
Review Notes from S... 10/31/12 10/31/12
Finalise Requiremen... 10/22/12 10/26/12
Finalised UML of Inte... 10/29/12 10/29/12
Finalised Use Cases 10/30/12 10/30/12
Finalised Use Case... 10/31/12 10/31/12
Deliverable D3 11/1/12 11/1/12
D4 11/19/12 11/29/12
Research Bash Scrip... 11/19/12 11/20/12
Create Bash Scripting 11/21/12 11/23/12
Test Bash Prototype 11/26/12 11/26/12
Demonstrate Bash P... 11/27/12 11/27/12
Review Notes from... 11/28/12 11/28/12
Deliverable D4 11/29/12 11/29/12

D2.jpg


GANTT project
Week 41
Week 42
Week 43
Week 44
Name
Begin date
End date
D1 9/24/12 9/26/12
Initial Probem Break... 9/24/12 9/24/12
Identify Initial Requir... 9/25/12 9/25/12
Deliverable D1 9/26/12 9/26/12
D2 10/11/12 10/11/12
Deliverable D2 10/11/12 10/11/12
D3 10/12/12 11/1/12
Prepare Interview Plan 10/12/12 10/12/12
Conduct Interview 10/15/12 10/15/12
Review Interview No... 10/16/12 10/16/12
Finalise all Require... 10/17/12 10/17/12
Create UML Diagra... 10/18/12 10/18/12
Create Use Cases 10/18/12 10/18/12
Create Use Case Dia... 10/19/12 10/19/12
Prepare StakeHolde... 10/29/12 10/29/12
Attend StakeHolder... 10/30/12 10/30/12
Review Notes from S... 10/31/12 10/31/12
Finalise Requiremen... 10/22/12 10/26/12
Finalised UML of Inte... 10/29/12 10/29/12
Finalised Use Cases 10/30/12 10/30/12
Finalised Use Case... 10/31/12 10/31/12
Deliverable D3 11/1/12 11/1/12
D4 11/19/12 11/29/12
Research Bash Scrip... 11/19/12 11/20/12
Create Bash Scripting 11/21/12 11/23/12
Test Bash Prototype 11/26/12 11/26/12
Demonstrate Bash P... 11/27/12 11/27/12
Review Notes from... 11/28/12 11/28/12
Deliverable D4 11/29/12 11/29/12

D3.jpg

D4.jpg

Present the schedules on which performance and resource planning are based. Include a task table, Gantt and PERT charts.

2.6 Equipment, Materials, Facilities, and Other Resources

3 Assurance Plan

The Quality Assurance Plan(The QAP) is the basis for maintaining the quality of our product on the highest level that matches the requirements of the given software system. The QAP will be overseen by the team to maintain quality improvement activities, such as monitoring, adding features and evaluating defects. The purpose of the QAP is designed to match the following requirements:

- to perform suitable actions when possibilities for improvements in service are identified.
- to implement corrective action when technical issues or bugs are found.
- To ensure that the software system is maintaining properly all the time.

Our team will mainly rely on Risk Management Plan and Product Requirements Specification to keep the product quality to the appropriate level.

Team activities:

Prior to making any changes to code, it will be reviewed by the team and will be submitted to GitHub, supporting version control of source code. After altering any part of the code, we invoke test sets to check if the corresponding oracles match expected outputs. Apart from that, we use black box testing with other teams to check if they can find bugs, as they have a fresh look to the product.

This documentation does not contain any details regarding the action taken.

Describe the activities to be performed by for assurance of the software and other deliverables. Assurance activities include:

1. Review and acceptance testing of products
2. Verification and validation procedures

The contents of this subsection will be explained later in the 1st semester in the PSD lectures. For initial hand-in deadline, you may leave this subsection blank or make your best effort to produce an assurance plan.

4 Risk Management Plan

5 Configuration Management Plan

Describe the activities and plans for configuration management to be performed by the organization preparing this Management Plan. The primary topics for the plan include:

1. Configuration management process
2. Configuration control activities
3. Configuration identification
4. Configuration change control

The contents of this subsection will be explained later in the 1st semester in the PSD lectures. For initial hand-in deadline, you may leave this subsection blank or make your best effort to produce an assurance plan.

A Glossary

PSD3: Professional Software Development 3

Including expansions of non-standard abbreviations and acronyms and other key definitions. You may find it useful to maintain a glossary as a shared section amongst all your PSD documents. using the `\input{}` macro.