



CO510 Software Engineering

Group Assessment

Introduction and Scenario



Assessment Details

- A single assessment with multiple, staged delivery points in Autumn and Spring terms.
- Undertaken in groups of 4.
- You will have a chance to select your group.
- Supported by classes/terminal sessions in the Spring term.
- Necessarily a degree of uncertainty and change – because that's real life.



Yuconz Consultancy

Miles Roman
Director of Human Resources



Role play.....

- I will act as your client:
 - My name is Miles Roman.
 - I am the Director of Human Resources at Yuconz
- Yuconz is a small company of around 80 people that provides solutions in the areas of:
 - Information Technology;
 - Business Intelligence;
 - Management.



My background

- I have a degree in History.
- I am a member of the Chartered Institute of Personnel and Development.
- I formed Yuconz, along with the three other directors, in 2004.
- Prior to forming Yuconz I worked as a Management Consultant.



Yuconz structure

- Yuconz has four directors, each of whom is responsible for one of the four departments.
- The departments are:
 - Administration;
 - Sales and Marketing;
 - Service Delivery;
 - Human Resources.
- There is no chairperson nor chief executive officer. The business is managed, collectively, by the four directors.



Departmental structures and staff

- Administration:

- The director is the only manager in this department, which has:
 - Finance: two staff;
 - Contracts: four staff.

- Sales and Marketing:

- Marketing and Communications: has two managers and eight staff;
- Sales: has one manager and eight staff



Departmental structures

- Services Delivery:

- Business Intelligence: has two managers and ten staff.
- Information Technology: has two senior managers, five managers and thirty-five staff.
- Management Consultancy: has one senior manager, two managers and twenty staff.



Departmental structures

- Human Resources:
 - The director (who is me) is the only manager in this department, which has two staff.



Human Resources

- The work of the Human Resources Department is carried out entirely using paper files, although it does use e-mail for correspondence.
- The reasons for this are historic. When Yuconz was established by the four directors, HR was not considered to be important.
- Having developed into a larger organisation, it is now deemed beneficial to commission an IT-based solution for some activities of the department.



Annual Reviews

- The first phase of introducing IT into the HR department will concern the administration of the annual review process.
- Every member of staff, excluding the Directors, must have a performance review within two weeks of the anniversary of the commencement of their employment with Yuconz.
- Reviews are carried out by two staff members, both of whom must be senior to the reviewee.
- One of the reviewers must be the reviewee's manager or a director.
- It is the responsibility of the HR department to instigate and manage annual reviews.



Our requirement

- An IT system to support the current Annual Review process.
- The new system is to be hosted entirely within the company.
- I have written a description of how our current, paper-based, annual review process works.



Consultation process

- As the Director of the Human Resources Department, I will be your client and sole point of contact within Yuconz.
- I am available, from time to time, to resolve queries about the requirement, or the operation of Yuconz.
- I am not an Information Technologist so I do not necessarily understand all the technical jargon your or my IT and BI colleagues use.
- David Barnes will act as a proxy for the queries and will forward them to me.

End of role play



Stage 1 (10%)

- Each group must provide 8 user stories based on the user information available.
- The requirements (system functions) of the annual review element of the full employment system (not just the 8 user stories) are to be specified as UML use case diagrams.
 - You will use the Papyrus tool for this part.
 - The use cases must include full descriptions using the template.
- Deadline: 23:55, Friday 8th December 2016 (week 11) [May be subject to change.]



Stages 2-5

- Stage 2: 10%, design and planning.
- Stage 3: 10%, baseline implementation.
- Stage 4: 10%, review and further implementation.
- Stage 5: 40%, further review and implementation plus final delivery.

A single mark worth 80% of the coursework mark will be awarded after Stage 5.



Group working

- To be successful in the assessment, the work will need to be undertaken like a real consultancy project.
- It will need to be managed.
- It will need to be planned.
- It will need to be monitored.
- Each group will need to decide on their processes and standards.
- Group members will need to actively commit to contributing to the task.



Software engineering processes

- We will expect you to use appropriate SE processes:
 - Planning and estimation.
 - Quality assurance and validation.
 - Decision making and recording.
 - Management and monitoring of tasks.
 - Consistency checking.
 - Testing.
 - Version control.



Group working

- Some groups will experience difficulties.
- Keep an eye out for these and take action sooner rather than later.
 - Initially within the group.
 - Follow up to the course convener if they cannot be resolved ...
 - ... but don't leave this too long.
- Don't be taken advantage of; actions and consequences.