

- Assess needs <= design

[illegible]

Gant chart

IB Questions:

State one method of network security could be used when transmitting the GPS information [1 mark]

Outline how this GPS information may be used once transmitted to the security system. [2 marks]

There are other situations where people may be required to carry GPS devices

Discuss the ethical implications of insisting people carry GPS devices [6 marks]

A lot of data is necessary to collect to find out about a number of prisoners

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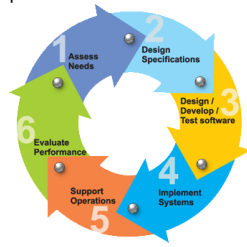
Planning and System Installation

Topic	Class Notes	Organised Notes
1.1.1 Identify the context for which a new system is planned	• Meta-data • Meta means information about something surrounding the current thing that we're talking about • Context is reasons supporting the idea and what it is surrounding • Old system is known as legacy • Why do you need to move to a new system? • Need to consider why we are doing this 1. What is your current system? Need to know what the legacy is 2. What is the level of service you want? Budget and cost (enough money or not) 3. Are there specific features or requirements you wish for your new system that are not included in your current system? Simply build features onto instead of building a new system 4. What do you currently know about changing systems? Time = money, experience 5. Have you ever changed to a new system before? Experience (realistic expectations) need to have knowledge to do it Disorganisation - bad communication 6. Who will use this new system? (Solo user or group of users) User base 7. How much time, effort and money are you willing to put into your new system? Refers to legacy to the new system, what is willing to be done 8. What language is your new system in? Different operating systems use different languages 9. Does it involve a change in hardware, software or both? 10. Why do you want to change to a new system? What is wrong with the old one 11. What implementation have you already tried? You know what they've already done 12. What do you need to move from the old system to the new system? To prevent loss of data • Staffing - fire or retrain • 'In system management we hire, fire, retrain' - Mr May • Compatibility with existing systems • Infrastructure requirements • Bespoke (custom-made) or off-the-shelf Which one is going to be less costly? <i>In IB Exam</i> - Question: Identify 2 things that a company would need to consider when changing from a legacy to a new system. (2 Marks) If command term is Outline - say what and why (cost.. because) (4 marks)	• Context is reasons supporting the idea and the background information • Meta - information about something surrounding the current thing that we're talking about • Old System is called legacy • 'In system management we hire, fire, retrain' - Mr May <i>Powerpoint:</i> • What is the problem that the new system is going to solve? • Alternative solutions • Staffing: numbers, training • Cost • Time • Compatibility with existing systems • Infrastructure requirements, eg existing network • Bespoke (custom-made) software versus off-the-shelf <i>In IB Exam</i> Identify 2 things that a company would need to consider when changing from a legacy to a new system. (2 Marks) A company would need to consider the time and staffing when changing to a new system. If command term is Outline - say what and why (4 marks) A company would need to consider the cost when moving to a new system because they might go over budget.
1.1.2 Describe the need for change management.	• Why do we need change management • Over periods of time - client needs change • Need to have clients invested in change by explaining how the change will occur • Stakeholder of a system - every part of a company e.g. Company that sells product to the public, want to change from old website to new website, Stakeholders are customers, IT people, employees, competitors, investors,	• Client needs change over periods of time • Stakeholder of a system is every part of a company • Need to know how to manage change to understand surrounding purpose of change • Projects need to be successful <i>Powerpoint:</i> • Communication of the need for and benefits of change • Users may require training • Recruitment may be necessary to bring in suitable skillsets • Stakeholder support • Planning, milestones, completion date • Dependencies between project stages/components

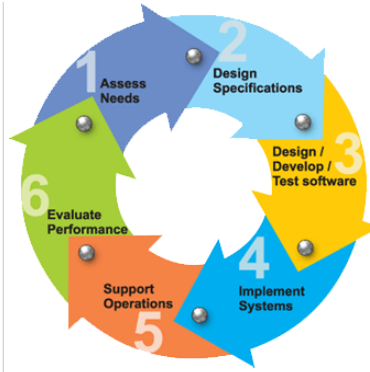
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1.2.9 Discuss the importance of iteration during the design process.

- Iteration (in case of this slide) - process



- Improvements + new requirements



1.2.10 Explain the possible consequences of failing to involve the end-user in the design process.

PowerPoint:

- The **end-users** are the experts and they know what they need from the system better than anyone
- If users are not involved in the design process, there is an increased chance that the software will be designed inappropriately
- If this happens, the client will end up not using the software
- This means that the development cost will have been wasted
- There may also be reduced productivity in the client organisation
- Involving the user requires constant communication in a variety of ways, including surveys, interviews, focus groups, responses to prototypes, etc

1.2.11 Discuss the social and ethical issues associated with the introduction of new IT systems.

- Privacy - how your information about you is used / stored / distributed
- Privacy vs Safety from terrorists?
- Advertising links between websites and ads on them.
- There are websites with socially and ethically wrong content
- Censorship - should the web have its content filtered by government?
- Accessibility of adult content - children can access at younger ages
- Copyright issues - effectively referencing / attributed IP (intellectual property).
- Pirating content - Mass distribution reducing capacity of creative types to make money
- Artificial intelligence - Human rights of AI?
- Hacking - safety issues

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