Managing a project



CS/SE Individual Practical

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- Managing a project involves a range of skills.
- You need to:
 - identify roles and responsibilities;
 - carry out a range of tasks;
 - be aware of deadlines;
 - plan and anticipate problems; and
 - deliver a product.

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Project management Roles

Roles in a project

Planning

Deadlines

Backups

Project managemen

Roles in a project

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Deadlines

Backu

The Developer role

- Studies the problem; determines a solution.
- Installs software, APIs and frameworks.
- Reads documentation; learns about tools.
- Writes code; debugs code; tests code.
- Writes documentation.

For the CS/SE Individual Practical

You have been assigned this role.

The Project Manager role

- Identifies work which is to be done.
- Sets parameters such as platform/architecture/language.
- Sets priorities. Communicates priorities.
- Doesn't install software on your machine.
- Doesn't fix bugs in your code.

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I have been assigned this role.

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Plan for the unexpected

- In planning a project you should build in some contingency to deal with problems which could delay your progress.
- You don't know which problems will occur, but it would be surprising if no problems occurred.

Predictable unpredictables

- It could snow labs and facilities could be closed or inaccessible.
- Strikes could happen staff or students elect not to work.
- \bullet You could catch flu a flu epidemic is predicted this year.
- Laptop theft if your laptop was stolen you would lose work.
- Laptop failure failures can be irreparable with no warning.
- Broadband failure your broadband service could fail.

Total cost due to predictable unpredictables

Events such as the above could delay you by a week.

Managing deadlines

- Most major projects have interim deadlines, milestones or deliverables
- Missing interim deadlines, milestones or deliverables usually incurs a penalty of some kind.

There are different types of deadlines:

- soft deadlines which are not usually specified precisely "this should be completed by Christmas"; and
- hard deadlines which must be specified precisely "Part 2 of the CS/SE Individual Practical is due on Thursday 15th December, 2011 at 16:00".

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Dealing with hard deadlines

Factor in the potential problems with predictable unpredictables by taking the hard deadlines and subtracting the estimated delay (we are considering this to be one week).

- Part 1 of the CS/SE Individual Practical is due on Thursday 27th October, 2011 at 16:00.
 - $\bullet~$ try to complete this by Thursday 20^{th} October, 2011 at 16:00.
- \bullet Part 2 of the CS/SE Individual Practical is due on Thursday 15^{th} December, 2011 at 16:00.
 - try to complete this by Thursday 8th December, 2011 at 16:00.

Backing up your work

You should backup your code to your DiCE account.

Secure copy (scp)

It is possible to copy an entire folder to your DiCE account with just one command. If user is your username (e.g. s1234567)

scp -r ForumApp user@student.ssh.inf.ed.ac.uk:/home/user

will copy the folder ForumApp to your home directory