Project planning

01219245/01219246 Individual Software Process

4 iterations

- 1st iteration: now 29th March
 - Iteration review: 15th March
- 2nd iteration: 30th March 19th April (3 weeks w/ Songkran)
 - Mid iteration review: 5nd April
 - Iteration review: 19th April
- 3rd iteration: 20th April 26th April (1 week)
 - Mid iteration review: -
 - Iteration review: 26th April
- Final iteration: 26th April 10th May
 - Mid iteration review: 3rd Mayl
 - Project review: 10th May (hopefully with a project fair)

Calendar



March

April

May

Planning







Why work so hard?

- Laziness? Not really.
- Usually, we underestimate the amount of work needed.

Sad story



Can you do this?



Bad estimates

- We want to get all features done in a given time.
- However, we usually underestimate the effort needed.
- We end up with having all features but...
 - with bugs
 - with bad quality
 - and developers burn out

Good estimates

- If you have a good estimate, you can have a very realizable plan.
- But it is hard to have good estimates on the effort you need to get your software done.
- Very hard to obtain good estimates:
 - when you are doing something you have not done before,
 - when your customer's requirements are not clear,
 - when situations can change over time.

Dilemma?

- 2 choices:
 - Find a way to obtain better estimates on the effort so that we can plan better.
 - Try to live without good estimates.
- Why can't we try both?



Traditional trade-off

• Fixed time and features



Live-and-learn trade-off

• Fixed time and quality



Live-and-learn trade-off with short iterations

• Fixed time and quality



Live-and-learn trade-off with short iterations + re-planning



Activities in planning

- Task breakdown
 - Smaller tasks are typically easier to estimate and to get done.
- Prioritization
 - We can't get everything done in one iteration. We should try to focus on more important ones first.
- Estimation
 - So that we have some idea on what features we can complete in this iteration.

Planning for your 1st Iteration

- No "formal" estimation at this point
 - since we really have no data.
- Set plausible goals for your 1st iteration
 - these are the features that we will complete first.
 - (see more on the next slides)
- Refine your task breakdown to correspond to the goals