Class Project

First Stage

First Stage (1)

- ◆ Requirements elicitation plan
  - ■ Risk issues for concern
    - ● Developers have no previous experience in building this particular type of system
      - ◆ How different is this system?
    - ● IT department is very unstable (staff left, staff negative)
    - ● Staff may be negative (e.g. conductors may be obsolete)
    - ● New technologies not an issue
  - ■ The emphasis on modern techniques

First Stage (2)

- Stakeholders
  - All named people, passengers, stinking trains staff, bus company executives and staff
  - Mobile phone companies
  - Who is in charge of the electronic gates?
- General techniques
  - Involvement of IT staff is crucial – JAD, prototyping evaluation
  - Emphasising the new technology to keep the CIO in favour - prototyping
  - Emphasising collaboration with other companies to keep the CFO in favour
  - Developers have to be involved in order to gain domain knowledge - JAD

First Stage (3)

- Implementation details
- No justification of selected methods
- No link of selected techniques to risk
- Lack of detail in the implementation details

◆ Context diagram
- External entities
  - Gate controls, Bus company systems, Mobile phone companies
  - Rail track maintenance, Accounting database, Ticket delivery, Payment system, **<u>Timetable</u>**
- No justification of entities
- Lack in detail in defining the scope of the system
- Confusion between flows and use cases

First Stage (4)

- ◆ Business use case diagram
    - ■ Purchase ticket (with mobile), Check ticket (with mobile)
    - ■ Too many use cases are suspect – only very obvious and few relationships
    - ■ Some use case diagrams were a mess
    - ■ No descriptions
    - ■ Lack of consistency
- ◆ Business class diagram
    - ■ Tickets (single, combination), Customer (with mobile phone), Routes (rail, bus), Trip, Train, Bus
    - ■ Too many classes are suspect
    - ■ Obvious omissions, No descriptions

First Stage (5)

◆ Overall performance – very good!
- No failures!
- Best the requirements elicitation plan (avg 65%)
- Worst the business use case diagram (avg 50%)
- 44% - 74% avg 61%