

# 52.234 Systems Analysis and Design

## Class Project

### First Stage

**Deadline:** 4pm, Thursday 9<sup>th</sup> December, 2004

**Weight:** 50 out of 200

**Deliverables:**

1. **A Requirements Elicitation Plan.** The plan should identify the stakeholders of the project and suggest the most appropriate requirements elicitation process for each one of them. For each selected requirements elicitation technique issues related to its implementation should be addressed and all supporting material should be provided. The plan should identify and take into account the various risks associated with the project. The completeness of the plan is of paramount importance. Finally, it is crucial that the document is succinct and that justification is provided for all decisions taken.
2. **A Requirements Business Model.** The requirements business model should include:
  - a. **A system scope model.** This should take the form of a Context Dataflow diagram accompanied by a description of the main purpose of the system and a clear definition of the system scope.
  - b. **A business use case model.** This should take the form of a Business Uses Case diagram accompanied with small descriptions of each identified use case.
  - c. **A business class model.** This should take the form of a Business Class diagram accompanied with small descriptions of each identified class as well as the class relationships.

**Supporting Material, Assumptions and Advice:**

1. In order to get a better feel for the kind of functionality that a rail ticket reservation management system would offer, it is worth exploring the [National Rail](#) web site and in particular the “Plan My Journey” part.
2. Keep in mind that in addition to the functionality provided to the passengers, any system of this kind would have to also support the operations of the train company itself, e.g. in managing pricing, ticketing offer, etc.

**Submission Guidelines:**

1. Your submission should include a cover page and all the required deliverables clearly marked with the appropriate title.
2. The cover page should include the project group number, and names, registration numbers and signatures of all the group members. If a group member did not participate at all to the submission, he or she should not be allowed to sign it.

3. All submissions should be given to the departmental secretaries' office L11.06 no later than 16:00 on the submission deadline date.
4. All submission material should be typed. All UML diagrams should be created using Together Control Center. All other diagrams should be created using an appropriate software package. Any handwritten material will not be marked.

**Note:** Failure to comply with the submission guidelines will lead to a reduction of marks from your submission.