Monash University
School of Information Management and Systems
CSE1205/IMS1002
Semester 1, 2005
Assignment 1: System Requirements Specification

Aims
- to gain an understanding of the process of analysis by determining and modelling the data and process requirements for a new system
- to produce systems requirement definition of a case study
- to demonstrate an ability to produce data and process models.

Outline of the Task
The assignment requires that you play the role of the systems analyst who have been contracted to analyse and report on the situation at Transport Makers. You are required to analyse the current situation and to develop a systems requirements specification.

You should ensure that the development of a new logical solution addresses the problems of the current situation, and where possible the new business needs of the client. It should also take advantage of any opportunities identified by your analysis.

Use the description of the case study provided, as well as any relevant information provided by the lecturer or your tutor, to produce a word-processed report that includes all the required items as listed in the Assignment Deliverables.

Clearly note in your report any assumptions you need to make about any processing or data which may not be fully described in the case study.

Submissions
Each student will submit a single report – (thus an individual assignment).

Due date
The assignment is to be handed in on 21 April 2005 before 5 PM. The assignments should be placed in the tutor’s pigeon holes in Building S level 4.

Assignment Value
The assignment is worth 25% of the total marks available for the unit.

SIMS Assignment Cover Sheets
All work must be submitted with a signed SIMS Assignment Cover Sheet at the front of the report. This Cover Sheet is available on the SIMS website.

Any work submitted without a signed SIMS Assignment Cover Sheet will not be accepted nor marked by your tutor.

Plagiarism and Cheating
Plagiarism or cheating of any kind will not be tolerated. Refer to the unit outline at the unit webpage and the SIMS website for details of the policy concerning plagiarism and cheating.

Standards

All printed assignment work must be word processed and meet the standards set out in the assignment specification. Refer also to the School of Information Management and System’s Style Guide for additional information on presentation standards. All printed assignment work must conform to the School’s Style Guide which can be found at:


The School's requirements for submission of practical work can be found at:


Assignment Deliverables

Your report should be presented as a professional business report and include all the following sections:

1. Executive Summary, Table of Contents
2. Introduction that clearly states the aim of the report, and the scope and objectives of the proposed system.
3. Brief overview of the current system
4. Brief analysis of the problems of the current system, and brief descriptions of the opportunities for improvement
5. Brief descriptive overview of the proposed system
6. Logical process models for the proposed system
   • Context diagram identifying the scope of the proposed system
   • Level Zero data flow diagram
   • Any lower level diagrams where necessary
7. Entity relationship model for the proposed system
8. Third normal form (3NF) relations for all entities. You need to show how
you got from 1 NF to 3 NF
9. A data structure diagram of your 3NF relations.
10. Data dictionary entries for all entities in your entity relationship model
11. Support for the proposed system - a brief explanation of how the proposed
system solves existing problems and addresses opportunities. Your
explanation should refer to your models, and should explain how the
models address these issues.
12. Recommendations and conclusions.

Assessment Guidelines:
Your assignment will be judged on:

• the completeness of your models in terms of capturing data and process
  requirements;
• the accuracy and appropriateness of your models;
• your use of correct notations and adherence to modelling conventions
• the quality of your report presentation.