

## SE103.3 - System Analysis and Design

### Group Assignment

Batch: PLY 18.1 & 18.2

Hand out date: 01/04/2019

Hand in date: 15/07/2019

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Select an organization (client) with a large scale business which operates island-wide or internationally. Identify major business process/processes and the Information System/s used to handle the daily business operations. The existing information system/s can be manual, file based or low efficient computerized systems.

Analyze the process of existing information system/s and the difficulties/weaknesses of conducting daily activities. Clearly identify client/user requirements for a new information system. Then propose a design for a new computerized information system with high efficiency to overcome the drawbacks of the existing information system/s.

Assignment Type: Group assignment

Group Size: 5 members

Assignment Weight: 100 marks (40% of the module)

Submission Type:

- A well formatted document
- An individual viva

**Note:** All submissions should be done to the program office on or before 5.00 pm on the Hand in Date.

### Submission Contents:

#### Chapter 1: Introduction

(20 marks)

- Client overview (Information about the client and its business)
- Scope of study (Clear identification of external environment, internal environment, system boundary and automated boundary)
- Details of the Existing system
- Drawbacks of the existing system
- Details of the Proposed system
- Expected benefits from the proposed system

Deadline to submit Chapter 1: 30/04/2019

## **Chapter 2: System Analysis**

**(20 marks)**

- Fact Finding Methods (Detailed explanation on the fact finding methods used and how they were used. Include necessary appendixes as evidences)
- Functional Requirements (Detailed explanation on the functional requirements of the system)
- Nonfunctional Requirements (Detailed explanation on the nonfunctional requirements of the system)
- Constraints and Risk involved (Barriers to the proposed system)
- Detailed Budget for the project

**Deadline to submit Chapter 2: 31/05/2019**

## **Chapter 3: System Design**

**(30 marks)**

- Data Flow Diagrams (Context diagram, Level 0 diagram, Level 1 diagrams) (10 marks)
- Use Case Diagram (10 marks)
- Class Diagram (10 marks)

**Deadline to submit the complete documentation including Chapter 1, 2, 3: 15/07/2019**

Each individual group has to conduct a viva and each student will receive **30 marks** as an individual from the viva. The documentation should be formatted properly and contains the following.

### **Note:**

The cover sheet of the assignment should include the following:

- Title of the Module
- Name of the client
- Name of the system
- Student IDs (ascending order) with names of each group member (according to the signing sheet)
- Name of the lecturer
- Date of submission

The assignment should also include

- Table of content
- List of tables (if any)
- List of figures (if any)
- Acknowledgement
- Pages numbers/suitable header/footer
- Workload Matrix (Contribution of each member)
- Bibliography (Harvard Referencing Style)
- Appendixes (if any)