SLIIT
COMPUTING | BUSINESS | ENGINEERING

Software Engineering I
Semester I – 2015
Assignment –Part 2

Instructions:

This assignment is to be done in pairs and is based on the case study in Assignment - Part I.

For the submission, the student group has to perform SASD on the chosen case study and

a) Draw a Context Diagram and level balanced DFDs (at least up to level 2).

b) Write at least 3 entries for the Data Dictionary.

c) Convert the DFDs in part a) into a Structure Chart.

Prepare a document based on the above analysis and submit a hardcopy of the report **on or before 29th March 2015**.

Please note that marks will be allocated for the contribution of each member. Make sure to mention the contribution in your document.

Late submission will be penalized by 10% reduction per day.

*** Please mention the student number, name and the batch (Eg : Malabe-Batch 1, Metro-Batch 2, KII) on the cover page.

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Marking Scheme

a) Context Diagram and level balanced DFDs – **50 Marks**

i. Context Diagram – 10 Marks
System – 2 Marks
External Entities – 3 Marks
Data flows – 5 Marks

ii. Level 1 and Level 2 Diagrams (20 Marks each) – 40 Marks
Processes – 5 Marks
Data Stores – 5 Marks
Data Flows – 5 Marks
Level Balancing – 3 Marks
Numbering – 2 Marks

b) Data Dictionary – **10 marks**

i. Data dictionary entries given for details
(Maximum 1.5 marks each for 5 – 7.5 Marks)

ii. Data dictionary entries for balancing

(Maximum 2 marks each for 5 – 10 Marks)

c) Structure Chart – **35 Marks**

i. Transform analysis only – 5 Marks
Transaction analysis – 10 Marks
ii. Data flows – 15 Marks
- Imports/exports – 5 Marks
- Inputs / Outputs – 10 Marks

iii. Data stores – 5 Marks
iv. Creative thinking e.g.: adding/removing modules as necessary – 5 Marks

d) Individual contribution (detailed description of the challenges faced) – **5 Marks**