SLIIT
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BSc (Hons) in Information Technology
Year 2

Lab Test 02
IE2031 – Structured Analysis and Design **Semester 1, 2019**

Instructions for the lab test

- Read the following case study & attempt the activity given below
- Draw diagrams using introduced software tool and show the results to lab instructors during lab sessions
- Upload a word document of the test to the given link

Case study - Stylish Dancing School (SDS)

The Stylish Dancing School (SDS) runs classes in a variety of forms of dancing, such as ballroom, ballet, tap, salsa and so on. Clients book for a course of 10 classes, which are offered at the same time each week for 10 weeks. Each course is for dance of a particular type, such as 'ballroom for beginners', or 'advanced tap dancing'. There are many courses available for each type of dance. Enquiries are received from members of the public about the availability of dancing classes. When a client wants to book for a course, their name, address, phone number and email address (if they have one) are taken. Some clients book for more than one course; each booking has a unique booking number and a note is made of the date on which the client made the booking. Occasionally a course is cancelled (for example, if not enough clients have booked for it) and the School has to contact the clients who have made bookings for it. An information system is required to help manage the operation of the SDS. It is required to hold details of the types of dance classes offered, the courses that are running, the clients and the bookings they have made. A list of the clients who have booked for each course (a class list) needs to be printed off and given to the dance teachers; they will note who has attended each class. Every week the completed class lists will be used to update the system to show which clients have attended the weekly classes. Clients pay when they attend their first class; payments will not need to be handled by this information system, but it will need to record when payment for a booking has been made.

a) Draw context level diagram () *4 marks*

b) Draw level 1 diagram *7 marks*

c) Draw level 2 diagram (At least for 1 process) *4 marks*

d) Write down data dictionary (At least 5 entries) *5 marks*