**Lab Sheet: Data Flow Diagram Constructing**

**Introduction**

System development life cycle (SDCL) is an essential process uses during the development of any system. SDLC consists of four main phases. They are planning, analysis, design and implementation. Data-flow diagrams (DFDs) model a perspective of the system that is most readily understood by users.

The benefit of Data-Flow Diagram

* The system scope and boundaries are clearly indicated on the diagrams.
* The technique of decomposition of high-level data-flow diagrams to set of more detailed diagrams, provides and overall view of complete system, as well as a more detail breakdown and description of individual activities, when this is appropriate, for clarification and understanding.

This lab suppose you are Estate Agency Manager, which has activity below:

Clients wishing to put their property on the market visit the estate agent, who will take details of their house, flat or bungalow and enter them on a card which is filed according to the area, price range and type of property.

Potential buyers complete a similar type of card which is filed by buyer name in an A4 binder.

Weekly, the estate agent matches the potential buyer's requirements with the available properties and sends them the details of selected properties.

When a sale is completed, the buyer confirms that the contracts have been exchanged, client details are removed from the property file, and an invoice is sent to the client. The client receives the top copy of a three-part set, with the other two copies being filed.

On receipt of the payment the invoice copies are stamped and archived. Invoices are checked on a monthly basis and for those accounts not settled within two months a reminder (the third copy of the invoice) is sent to the client.

**Assignment**

* Create the context and level 1 data-flow diagram of Estate Agency.
* The Estate Agency needed to improve data management by using a matching application between the client’s properties and the potential buyer demanding in order to matching reduce the complexity and waste time for increasing customer satisfaction to the Estate Agency. Create the context and level 1 data-flow diagram of Estate Agency again.

**Objective**

This lab reinforces the following skill:

- Concept of Data-flow diagram.

- Data flow constructing of the model to achieve the goal.

**Instruction**

1. Read and understand the Estate Agency activities.
2. Create\* the context data-flow diagram.
3. From the context data-flow diagram, create\* the level 1 data-flow diagram.
4. Review the diagram again for accuracy.

\*Able to use data-flow creation program such as MyDraw, Visual Paradigm, smartdraw, ect.

**Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ ID\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

Context DFD for Estate Agency

Level 1 DFD for Estate Agency

**Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ ID\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

Context DFD for Estate Agency after developed

Level 1 DFD for Estate Agency after developed