**Activity**

**Individual (65pts)**

* + - 1. How do the structured analysis work in the analysis phase?

The structured analysis is mainly about the concept: the analyst defines what the system should do before deciding how it should do it. Structured analysis employs data flow and entity relationship models as well as process specifications and data dictionaries to provide a complete system design view. It usually uses process modeling, which involves graphically representing the functions, or processes, which capture, manipulate, store, and distribute data between a system and its environment and between components within a system.

* + - 1. Which among tools is mostly and widely used by the developers? Why?

Among the tools, I think the one that is mostly and widely used by the developers is Data Flow Diagram (DFD) or Bubble Chart. For it easily shows the flow of data between various functions of the system and specifies how the current system is implemented. It is more understandable, and it is needed in every developing system for it is the initial stage of the design phase.

* + - 1. Describe the elements in each structured analysis tools. How are they differ from each other?

a.) Data Flow Diagram

Its elements are easy to understand and quite effective when the required design is not clear, and its user wants a notational language for communication. DFD often uses symbols to visualize the plan.

b.) Data Dictionary

This type of diagram improves the communication between the analyst and the user. It also stores the descriptions of all DFD data elements, details, and definitions of data flows.

c.) Decision Trees

It depicts the relationship of each condition and their permissible actions. This made used of square nodes that indicates an action and a circle that indicates a condition.

d.) Decision Tables

It is useful in situations where the resulting actions depend on the occurrence of one or more combinations of independent conditions. Also, it is a matrix containing row or columns for defining a problem and the actions.

e.) Structured English

It is best used when sequences and loops in a program must be considered and the problem needs sequences of actions with decisions.

f.) Pseudocode

It may specify the physical programming logic without actual coding during and after the physical design. Thus, it is used in conjunction with structured programming, and it replaces the flowcharts of a program.

These structured analysis tools only differ from the way they are presented and from the methods they use to make the requirements easily and more convenient.

* + - 1. Why would one use a decision tree and/or decision table in a process description?

Process definition is complex, that is why one needs to use a decision tree and/or decision table. These two methods are known to handle complex relationships and describing them in a precise manner which avoids problems in communication and make it more understandable.

* + - 1. Use any analysis tool. Create a set of process of buying plants from the viewpoint of plantitos and plantitas. Do not bother to identify the steps within each major processes. When new buyers are seem to purchase, they will complete a buyer information form that ask their name, address, contact details and brief description of the plant they want to buy which are stored in the customer’s file. When a buyer calls to buy a new plant or change what they bought, the staff of Garden of Eden, they plant store, check the buyer file for the details. Once it was found, the schedule of buying or change will be set.

If the customer is new, an incomplete entry made in the form; the full information will be collected when the customer arrives again. The buying of plants can be also done through appointment and send a reminder three days prior to the date. (25pts)

**Decision Tree**

Action 3: Schedule of buying or change will be set

Condition 2: When a buyer calls to buy a new plant or change what they bought

Condition 3: If found

Action 2: Check the buyer file for the details

Action 4: Full info will be collected

Condition 4: An incomplete entry made in the form

Action 1: Complete buyer information

Condition 1: When new buyers seem to purchase

Action 5: Appointment and reminder

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