SYSTEM ANALYSIS AND DESIGN

INSTRUCTIONS

1. **ANSWER ALL QUESTIONS**
2. **DUE DATE: 18ᵀᴴ MARCH 2022**
3. **CLASS: BSCS/BSSC**
4. **TYPE OF ASSIGNMENT: INDIVIDUAL ASSIGNMENT**
5. **FONT TYPE: BOOKMAN OLD STYLE**
6. **FONT SIZE: 10**
7. **LINE SPACING: 1.5**
8. **THE ASSIGMENT SHOULD NOT EXCEED 12 PAGES.**

Assignment 1

Question one

Read the following narrative to answer the question that follows

Mazao watering company intends to develop a system that would automate its operations. Customers are required to sign up for an account in the comppany's website which prompts them to fill in registration details, the submitted forms are stored in members file in the server located in the head office. Members are then required to verify their accounts using the link rovided in an email that was sent to by the server. Upon verification their details is the stored in the verification file.

The verified members login the company's website using their credentials and select the type of transaction such as payment, print statement, customer care and suggestions box

After the completion of the transaction, a transaction receipt is printed and transaction file updated

Draw a dataflow diagram to model the described system

Question two

i. You are a system analyst and have been asked to facilitate the analysis and evaluation of several candidates' system solution for the feasibility. What sets of criteria would you

typically use? Who do you involve in this task? Should you compare the candidate's solutions against each other at this point? Why or why not? What is the typical deliverable coming of this task?

ii. You are a system analyst working for a project to develop an internet for a large organization with several thousand employees working in offices throughout in Kenya. This will be the organization's first intranet, and executive management wants it to help increase employee efficiency and commitment to the organization regarding internet content functionality. Due to the size and geographic distribution of the organization, as well as project time constraints, there is insufficient time and resources for personal interviews, so you have decided that a questionnaire is needed.

Requirements:

    a. What facts and opinions do you need to collect?

    b. Should all employees in the organization be surveyed? Why or why not? If not, all employees should be surveyed, how would you select the employees to be surveyed?

    c. What format do you think would work best for this survey questionnaire?

    d. How long should the survey questionnaire be in order to get the necessary information without discouraging employees from filling it out?

    e. Create the survey questions.

Question three

a. Draw the data flow diagrams for developing a library management system with the following functionalities.

    (i)   Inquiring the availability of a book by giving the ISBN or title or author's name

    (ii)   Renting a book that is available

    (iii)   Returning a book after use

    (iv)   Reserving a book when it is not available

    (v)   Collection of overdue charges

    (vi)   Maintaining book details

    (vii)   Maintaining supplier's details who supply

    (viii)   Order list for new books

Question four

Let's say you are on the project team of a project that had a great deal of difficulty during the requirement analysis phase, and fell several weeks behind the schedule. The project manager wants to try to catch up by either skipping or abbreviating some of the tasks in the logical design phase. After all, the project manager reasons, we really have a clear idea of the requirements now, the designers and builders are really experienced, and they don't really need the logical design in order to do the technical design. Is this a legitimate method to get back on schedule? what the possible consequences? discuss