Data Flow Diagram Practice 4

34 Marks

Design a data flow diagram (DFD) for a University Research Grant Application System.

- Researchers can submit new grant applications, view the status of their submitted applications, and receive notifications regarding the outcome.
- Grant Reviewers can access submitted applications, review them, provide scores and comments, and recommend approval or rejection.
- The Grants Office Administrator manages researcher accounts, assigns reviewers to applications, tracks application progress, and finalises grant decisions.
- The system needs to maintain Researcher Profiles, Grant Application Details, Reviewer Assignments, Reviewer Scores and Comments, and Grant Decision Records.

Task:

- 1. Draw a Level 0 Data Flow Diagram for this University Research Grant Application System.
- 2. Decompose the "Process Grant Application" process to Level 1, showing more detailed subprocesses and data flows involved in an application moving from submission to initial review assignment.

Data Flow Diagram Practice 4 Mark Guide

34 Marks

Level 0

Symbolisation	Marks	Logic and structure	Marks
External Entities	Provides correct symbol for data source [1 mark]	External Entities	Researcher [1 mark] Grant Reviewer [1 mark] Grants Office Administrator [1 mark]
Processes	Provides correct symbol for Processes [1 mark]	Processes	Submit Application Data [1 mark] Validate Application [1 mark] Record Application Details [1 mark] Notify Researcher of Submission [1 mark] Assign Reviewer to Application [1 mark] Notify Reviewer of Assignment [1 mark]
Data Stores	Provides correct symbol for data store [1 mark]	Data Stores	D: Data Store [1 mark]
Data flows	Provides correct arrows with one way flow [1 mark] Provides correct labels that explain relationships [1 mark]	Data flows	Data flows for Level 0 between all identified entities, processes, and data stores as described in the scenario [3 marks]

Level 1

Symbolisation	Marks	Logic and structure	Marks
External Entities	Provides correct symbol for data source [1 mark]	External Entities	Researcher [1 mark] Grant Reviewer [1 mark] Grants Office Administrator [1 mark]
Processes	Provides correct symbol for Processes [1 mark]	Processes	Browse Courses [1 mark] Select Course [1 mark] Submit Enrolment Request [1 mark] Validate Enrolment [1 mark] Process Course Payment [1 mark] Update Enrolment Status [1 mark]
Data Stores	Provides correct symbol for data store [1 mark]	Data Stores	D: Data Store [1 mark]
Data flows	Provides correct arrows with one way flow [1 mark] Provides correct labels that explain relationships [1 mark]	Data flows	Data flows for Level 0 between all identified entities, processes, and data stores as described in the scenario [3 marks]