Library Management System - Diagrams

Diagram 1: DFD (Level 0)

Shows system, student, admin, and library database interaction.

[Sketch of DFD (Level 0)]

Diagram 2: DFD (Level 1)

Details processes like Search Book, Issue Book, Return Book, Manage Users.

[Sketch of DFD (Level 1)]

Diagram 3: ER Diagram

Entities: Student, Admin, Book, Transaction. Relationships: Issue, Return, Manage.

[Sketch of ER Diagram]

Diagram 4: Use Case Diagram

Actors: Student, Admin. Use cases: Login, Search, Issue, Return, Manage Books, Reports.

[Sketch of Use Case Diagram]

Diagram 5: Sequence Diagram

Scenario: Student searches for a book and issues it if available.

[Sketch of Sequence Diagram]

Diagram 6: Activity Diagram

Workflow: Login → Search → Issue/Return → Logout.

[Sketch of Activity Diagram]

Diagram 7: Class Diagram

Classes: User, Student, Admin, Book, Transaction. Relationships between them.

[Sketch of Class Diagram]