Data Flow Diagrams:

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Team Id	LTVIP2025TMID53783
Project name	Learn Hub
Maximum Marks	4 marks

A Data Flow Diagram (DFD) is a graphical tool used to model the flow of data through a system. It helps stakeholders understand how the application processes input and output data, who interacts with the system, and where the data is stored.

DFD Level 0 - Context Level

This shows the high-level interaction between external entities (Students, Teachers, Admins) and the LearnHub system:

Entities:

- Student
- Teacher
- Admin

Processes:

- Authentication
- Course Management
- Section Management
- Assignment Management
- Certificate Issuance

External Storage:

MongoDB (Stores Users, Courses, Sections, Enrollments, etc.)

DFD Level 1 – Example: Course Management Process

Processes:

- 1. Create Course → store to DB
- 2. Add Section → append to Course.sections
- 3. Assign to Students → update enrolled[]
- 4. Course Completion → update completed[]
- 5. Certificate Generation → available for download

User Stories (For LearnHub):

User Type: Student / Teacher / Admin

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance Criteria	Priori ty	Relea se
Stude nt	Registration	USN-1	As a student, I can register using email and password	I should be able to access the platform as a student	High	Sprint-
Stude nt	Login	USN-2	As a student, I can log in and view available courses	I can view and enroll in courses	High	Sprint-
Stude nt	Course Access	USN-3	As a student, I can view course sections and materials	I can view videos/articles for each section	High	Sprint- 2
Stude nt	Completion & Certificate	USN-4	As a student, I can mark a course complete and get certificate	I get a download link after marking complete	Mediu m	Sprint-
Teach er	Registration	USN-5	As a teacher, I can register and login as educator	I get redirected to dashboard after login	High	Sprint-
Teach er	Course Creation	USN-6	As a teacher, I can create a course	I can fill form and submit a new course	High	Sprint- 2
Teach er	Add Sections	USN-7	As a teacher, I can add sections to my courses	I can embed videos and resources to sections	High	Sprint- 2
Teach er	Assign Course	USN-8	As a teacher, I can assign courses to multiple students	I can select from a list of students	Mediu m	Sprint-
Teach er	Delete Course	USN-9	As a teacher, I can delete my own course	Course is deleted from backend	Mediu m	Sprint-

Admin	Login	USN-10	As an admin, I can log in securely	Admin sees dashboard and stats	High	Sprint- 1
Admin	Manage Users	USN-11	As an admin, I can view all users and remove inappropriate ones	I can delete a user if needed	Mediu m	Sprint-
Admin	Manage Courses	USN-12	As an admin, I can remove any course	I can review course and delete if needed	Mediu m	Sprint- 3