**Project Design Phase-II**

**Data Flow Diagram & User Stories**

**Date**

31 January 2025

**Team ID**

LTVIP2025TMID49959

**Project Name**

Your Center for Skill Enhancement (Online Learning Platform)

**Maximum Marks**

4 Marks

**✅ Data Flow Diagrams**

A Data Flow Diagram (DFD) visually explains how data flows through the Online Learning Platform (OLP), illustrating system processes, external entities, and data stores.

**Level 0 DFD (Context Diagram)**

[ Student ] --------|

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[ Teacher ] -------- |

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[ OLP System ]

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[ Admin ] -----------|

* **External Entities:** Student, Teacher, Admin
* **System:** OLP Platform

**Level 1 DFD**

[ Student ] → (Register/Login) → [ User Management ]

[ Teacher ] → (Create/Manage Courses) → [ Course Management ]

[ Student ] → (Browse/Enroll) → [ Course Management ]

[ Student ] → (Make Payment) → [ Payment System ] → [ Course Management ]

[ Student ] → (Download Certificate) → [ Certificate Generator ]

[ Admin ] → (Manage Users/Courses) → [ Admin Module ]

**Processes:**

* User Management
* Course Management
* Payment System
* Certificate Generator
* Admin Module

**Data Stores**

**User Database:**

* User\_ID
* Name
* Email
* Role (Student / Teacher / Admin)

**Course Database:**

* Course\_ID
* Title
* Description
* Sections
* Price

**Payment Records:**

* Payment\_ID
* User\_ID
* Course\_ID
* Amount
* Status

**Certificates Storage:**

* Certificate\_ID
* Student\_ID
* Course\_ID
* Issue\_Date

**✅ User Stories**

**User Stories Table**

| **User Stories Table User Type** | **Functional Requirement (Epic)** | **User Story Number** | **User Story / Task** | **Acceptance Criteria** | **Priority** | **Release** |
| --- | --- | --- | --- | --- | --- | --- |
| Student | Registration | USN-1 | As a student, I can register for the platform using email and password. | I can successfully create an account and reach the dashboard. | High | Sprint-1 |
| Student | Registration | USN-2 | As a student, I receive a confirmation email after registering. | I can confirm my email and activate my account. | ]\  High | Sprint-1 |
| Student | Registration | USN-3 | As a student, I can register using Google login. | I can access the platform using my Google account. | edium | Sprint-2 |
| Student | Login | USN-4 | As a student, I can log in with my email and password. | I can access my dashboard after login. | High | Sprint-1 |
| Student | Browse Courses | USN-5 | As a student, I can browse available courses by categories or keywords. | I can see a list of courses matching my search. | High | Sprint-1 |
| Student | Enrollment | USN-6 | As a student, I can enroll in free or paid courses. | I can view enrolled courses in my dashboard. | High | Sprint-1 |
| Student | Payment | USN-7 | As a student, I can pay for courses using Stripe. | My payment is confirmed, and I’m enrolled. | High | Sprint-2 |
| Student | Learning | USN-8 | As a student, I can view course content and videos. | I can access all materials for enrolled courses. | High | Sprint-2 |
| Student | Progress Tracking | USN-9 | As a student, I can see my progress in each course. | Progress percentage is visible. | Medium | Sprint-3 |
| Student | Certificate Generation | USN-10 | As a student, I can generate a completion certificate after finishing a course. | I can download a PDF certificate. | High | Sprint-3 |
| Teacher | Course Management | USN-11 | As a teacher, I can create, edit, and delete courses. | I can manage course details through my dashboard. | High | Sprint-2 |
| Teacher | Content Upload | USN-12 | As a teacher, I can upload videos and materials for my courses. | Uploaded materials are visible to enrolled students. | High | Sprint-2 |
| Admin | User Management | USN-13 | As an admin, I can manage all users of the platform. | I can add, edit, or remove users from the system. | High | Sprint-3 |
| Admin | Course Oversight | USN-14 | As an admin, I can monitor and manage all courses. | I can see course listings and remove inappropriate content. | High | Sprint-3 |

**✅ Outcome**

These DFD diagrams and user stories will guide the structured development of the Online Learning Platform, ensuring all key processes and user needs are addressed in the solution.