**Project Design Phase-II**

**Data Flow Diagram & User Stories**

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| Date | 15 May 2023 |
| Team ID | NM2023TMID21570 |
| Project Name | Empowering the Future: A literacy Rate Analysis for a Better Tomorrow |
| Maximum Marks | 4 Marks |

**Data Flow Diagrams:**

A Data Flow Diagram (DFD) is a traditional visual representation of the information flows within a system. A neat and clear DFD can depict the right amount of the system requirement graphically. It shows how data enters and leaves the system, what changes the information, and where data is stored.

DFD (Empowering the Future: A literacy Rate Analysis for a Better Tomorrow)

**Reporting and Communication**

**Data Collection**

**Data Cleaning and Pre-processing**

**Visualization**

**Analysing**

**Transforming the collected data**

**Integrating the data**

**User Stories**

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| **+User Type** | **Functional Requirement (Epic)** | **User Story Number** | **User Story / Task** | **Acceptance Criteria** | **Priority** | **Team Member** |
| Literacy Analyst | Data Ingestion | US-1 | As a literacy analyst, I want to import literacy rate data from various sources into the system for analysis. | The system successfully imports and validates the data. | High | Nandhini J |
| Government Official | Data Visualization | US-2 | As a government official, I want to view literacy rate trends over time through interactive charts and graphs. | The system displays accurate and interactive visualizations. | High | Saranya MN |
| Educator | Data Analysis | US-3 | As an educator, I want to analyze literacy rates by demographics and regions to identify areas that need improvement. | The system provides insightful analysis with actionable insights. | Medium | Karpagavalli M |
| NGO Representative | Data Export | US-4 | As an NGO representative, I want to export literacy rate data in CSV format to share it with partner organizations. | The system exports the data accurately in the desired format. | Medium | Gokulan S |
| System Administrator | Security | US-5 | As a system administrator, I want to ensure the system has robust security measures to protect sensitive literacy data. | The system implements authentication, encryption, and access controls to safeguard the data. | High | Saranya MN |