

## Project Design Phase-II

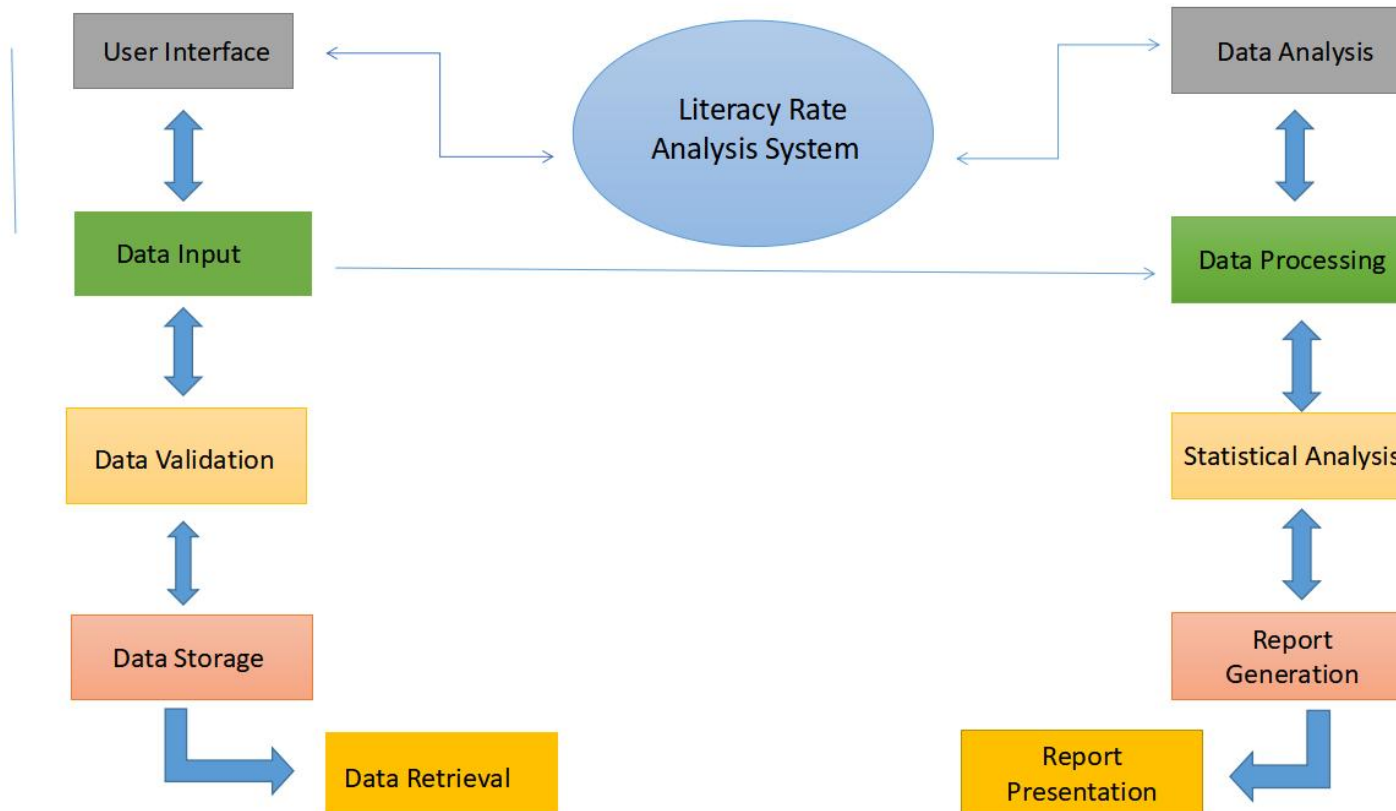
### Data Flow Diagram & User Stories

Date	12 May 2023
Team ID	NM2023TMID01225
Project Name	Empowering the Future: A Literacy Rate Analysis for a Better Tomorrow

#### 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.
- ❖ This is the interface through which users interact with the system. It allows users to input data and view the generated reports. Users provide data related to literacy rates, demographic information, education statistics, etc., which is then passed to the data processing stage.
- ❖ The input data is validated to ensure its accuracy, consistency, and adherence to predefined rules. Invalid or inconsistent data may be rejected or flagged for correction. The validated data is stored in a data repository or database for future reference and analysis. The stored data can be retrieved when required for analysis or report generation purposes.
- ❖ The collected data is processed using various techniques and algorithms to derive meaningful insights and patterns related to literacy rates. Statistical analysis techniques are applied to the processed data to identify trends, correlations, and other relevant information.

### Data Flow Diagram:



**Reference Link:**

<https://ibb.co/QXSCr8V>

## User Stories:

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Team Member
Researcher	Data Input and Validation	USR-001	As a researcher, I want to input and validate literacy rate data for different regions to analyze the overall literacy trends and identify areas that need improvement.	<ul style="list-style-type: none"> <li>❖ The system should provide a user interface to input literacy rate data for different regions.</li> <li>❖ The system should validate the input data for accuracy and consistency.</li> </ul>	High	G.Ganesan
Policymaker	Report Generation	USR-002	As a policymaker, I want to view reports and visualizations that highlight the correlation between literacy rates and various socio-economic factors to make informed decisions on resource allocation and educational policies.	<ul style="list-style-type: none"> <li>❖ The system should generate reports that include visualizations representing the correlation between literacy rates and socio-economic factors.</li> <li>❖ The reports should be accessible through the user interface.</li> </ul>	High	M.Jayalesh
School Administrator	Data Retrieval and Analysis	USR-003	As a school administrator, I want to retrieve and analyze literacy rate data for my institution's catchment area to identify potential challenges and develop targeted intervention strategies.	<ul style="list-style-type: none"> <li>❖ The system should allow the retrieval of literacy rate data specific to an institution's catchment area.</li> <li>❖ The system should provide</li> </ul>	Medium	B.Gurumoorthy

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Team Member
				functionalities to generate reports and visualizations based on the analyzed data.		
Citizen	Community Reports	USR-004	As a citizen, I want to access user-friendly reports that illustrate the literacy rates in my community and compare them to national or global benchmarks for awareness and advocacy purposes.	<ul style="list-style-type: none"> <li>❖ The system should generate reports that present literacy rates specific to a community.</li> <li>❖ The reports should be easily understandable and accessible through the user interface.</li> </ul>	Medium	M.Jayalesh
Data Analyst	Statistical Analysis	USR-005	As a data analyst, I want to perform statistical analysis on literacy rate data to uncover significant patterns, such as gender-based disparities, regional variations, or the impact of educational interventions.	<ul style="list-style-type: none"> <li>❖ The system should provide statistical analysis functionalities for the collected literacy rate data.</li> <li>❖ The analysis should include identifying gender-based disparities, regional variations, and the impact of educational interventions.</li> </ul>	High	G.Ganesan

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Team Member
Teacher	Student-Level Data Analysis	USR-006	As a teacher, I want to input student-level literacy data and receive personalized reports that highlight individual progress, areas of improvement, and recommend tailored teaching strategies.	<ul style="list-style-type: none"> <li>❖ The system should allow teachers to input student-level literacy data.</li> <li>❖ The system should process the input data to generate personalized reports for each student.</li> </ul>	Medium	B.Gurumoorthy
Customer (Web user)	Login	USR-007	As a customer, I want to log in to the system to access personalized features and data related to literacy rate analysis.	<ul style="list-style-type: none"> <li>❖ The system should provide a login page with fields for username and password.</li> <li>❖ Users should be able to enter their credentials and securely log in to their respective accounts.</li> <li>❖ Upon successful login, customers should be directed to their personalized dashboard.</li> </ul>	High	G.Ganesan
Customer Care Executive	Dashboard	USR-008	As a customer care executive, I want to have a dashboard that provides an overview of customer interactions, inquiries, and relevant information.	<ul style="list-style-type: none"> <li>❖ The system should provide a dashboard for customer care executives.</li> <li>❖ The dashboard should display key metrics, such as</li> </ul>	High	M.Jayalesh

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Team Member
				customer inquiries, response times, and pending tasks.		
Administrator	Customer Management	USR-009	As an administrator, I want to manage customer accounts, including their information, access privileges, and system settings.	<ul style="list-style-type: none"> <li>❖ The system should allow administrators to create, update, and delete customer accounts.</li> <li>❖ Administrators should be able to manage customer information, such as names, contact details, and preferences.</li> <li>❖ The system should provide options to assign access privileges to customers based on their roles and responsibilities.</li> </ul>	High	G.Ganesan

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Team Member
Customer (Web user)	Login	USR-10	As a customer, I want to be able to log in to the system to access personalized features and data.	<ul style="list-style-type: none"> <li>❖ The system should provide a login page with username and password fields.</li> <li>❖ Upon successful login, the customer should be redirected to their personalized dashboard.</li> <li>❖ Invalid login attempts should display appropriate error messages.</li> </ul>	High	B.Gurumoorthy
Customer Care Executive	Customer Support	USR-11	As a customer care executive, I want to assist customers with their inquiries and provide support regarding the literacy rate analysis system.	<ul style="list-style-type: none"> <li>❖ The system should provide a customer support interface for executives to receive and respond to customer inquiries.</li> <li>❖ The customer care executive should have access to customer data and their usage history for effective assistance.</li> </ul>	Medium	M.Jayalesh