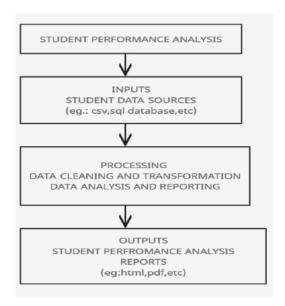
Project Design Phase-II Data Flow Diagram & User Stories

Date	21 October 2023	
Team ID	NM2023TMID07497	
Project Name	Project - Unleashing The Potential Of Our Youth: A Student Performance Analysis	
Maximum Marks	4 Marks	

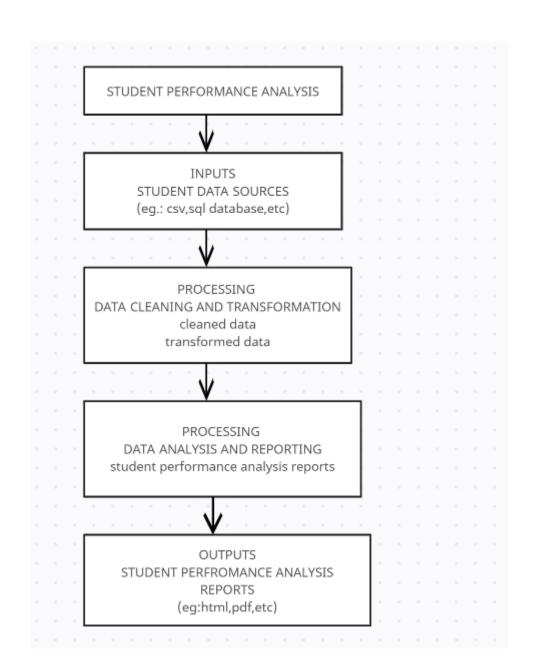
Data Flow Diagrams:

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.

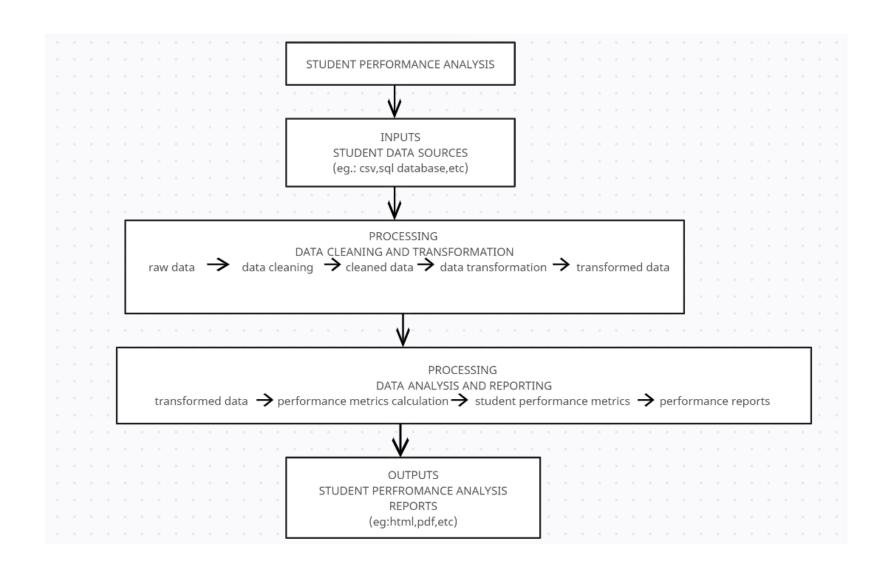
DFD LEVEL 0



DFD LEVEL 1



DFD LEVEL 2



User Stories

Use the below template to list all the user stories for the product.

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Administrator	User Account Management	USN-1	1. As a user, I want to register an account by providing my name, email address, and creating a password. After registration, I should receive a confirmation email to verify my account. 2. As a user, I want to log in to my account securely using my registered email and password. Once logged in, I should have access to features based on my role. I can also log out.	1. The registration form should include fields for name, email address, and password. 2. After registration, the user should receive a confirmation email. The confirmation link in the email should successfully activate the user's account. 3. Users should be able to log in using their registered email and password. 4. After successful login, users should be directed to the appropriate landing page based on their role. Logging out should terminate the user's session and require re-authentication for access.	High	Sprint-1
Teacher	Data Input and Management	USN-2	1. As a teacher, I want to create and update student profiles by entering their personal information, such as name, contact details, and class information. This ensures that the system has up-to-date student data.	 Teachers should be able to add, update, or delete student profiles. Student profiles should 	High	Sprint-2

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			2. As a teacher, I want to enter or upload	include fields for personal		
			students' academic scores, extracurricular	information, contact details,		
			achievements, and behavioral observations. I	and class information.		
			should be able to attach supporting			
			documents or notes for context.	3. Teachers should be able		
				to enter or upload		
				academic scores,		
				extracurricular		
				achievements, and		
				behavioral observations for		
				students.		
				4. The system should		
				validate and process		
				uploaded data without		
				errors.		
				S.S.		
				5. Administrators should be		
				able to upload student data		
				in bulk using common		
				formats such as Excel or		
				CSV.		
				331.		
				6. The system should		
				provide feedback on the		
				success or failure of the		
				import process.		
				import process.		
Parent	Performance	USN-3	1. As a user, I want to view aggregated		Medium	Sprint-3
	Analysis		performance data of my child, which	1. The class performance		
	,		should include overall class averages,	dashboard should show		
			highest and lowest scores, and	accurate data with class		
			distribution of scores. This helps me	averages, highest and		
			assess the child's performance at a	lowest scores, and score		
			glance.	distribution.		
			gianos.			
			2. As a user, I want to access various	2. Data should update in		
			statistical analyses, including average	real-time as new data is		
				entered or uploaded.		

			scores, median scores, mode, standard deviation, and other relevant statistics to understand student performance. 3. As a user, I want to track performance trends over time for individual students or the entire class. I should be able to see if a student's performance is improving or declining.	3. The system should accurately calculate average scores, median scores, mode, standard deviation, and other relevant statistics. Statistics should be updated as new performance data is added. 4. Users should be able to view performance trends over time for individual students or classes. Trend analysis should provide clear information on improvements or declines.		
Student	Visualization Tools	USN-4	1. As a user, I want a dashboard that displays key performance metrics in an easy-to-understand format. It should include graphs, tables, and charts that summarize student performance and trends. 2. As a user, I want to generate various types of graphs and charts (e.g., line graphs, bar charts, pie charts) based on specific criteria such as subject, class, or time period to visually represent data. This aids in better data interpretation.	1. The dashboard should display key performance metrics with updated and accurate data. 2. Users should find the dashboard layout intuitive and easy to navigate. 3. Users should be able to generate various types of graphs and charts based on specific criteria. 4. Generated visualizations should be clear, legible, and accurately represent the underlying data.	Medium	Sprint-4