Project Design Phase-II
Data Flow Diagram & User Stories

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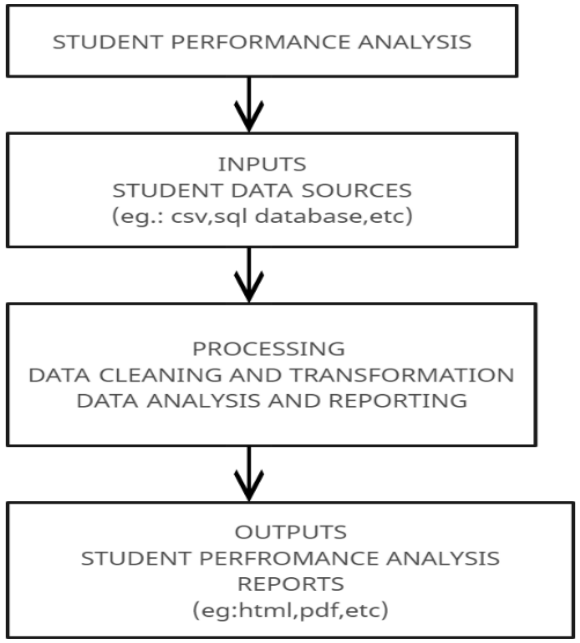
Team ID	NM2023TMID07501
Project Name	Unleashing The Potential Of Our Youth: A Student Performance Analysis

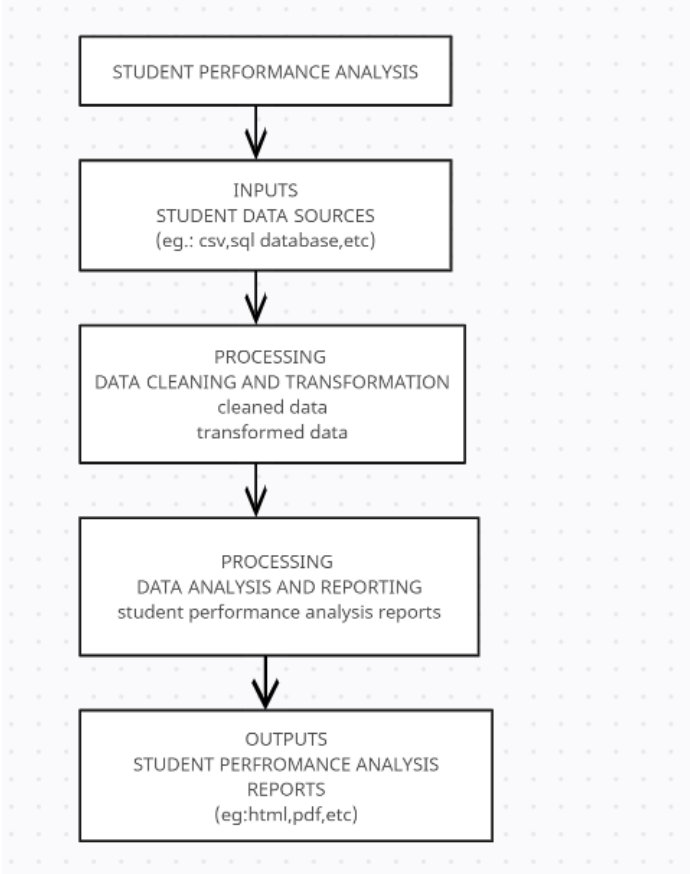
Data Flow Diagrams:

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.

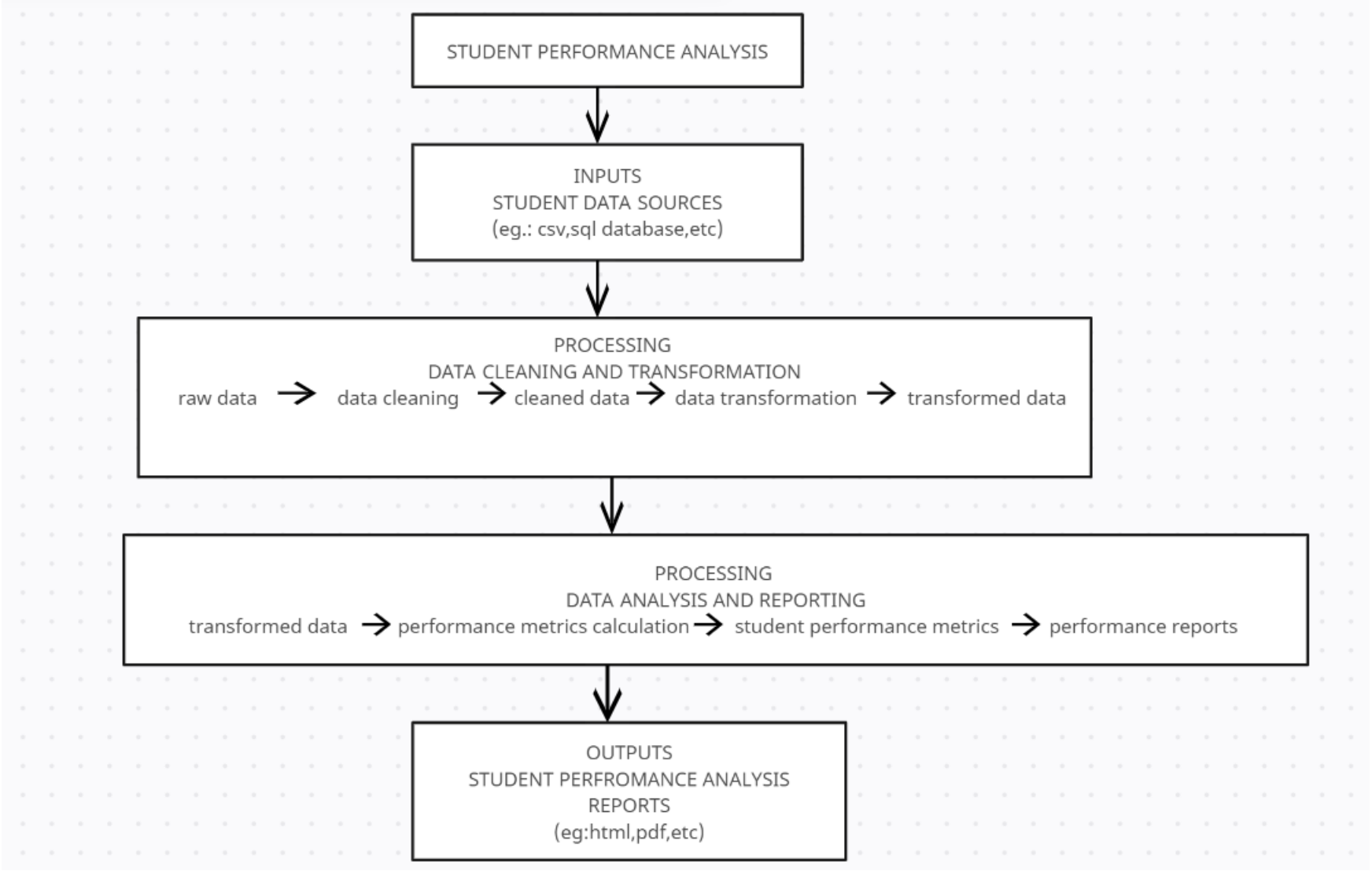
DFD LEVEL 0



DFD LEVEL 1


STUDENT PERFORMANCE ANALYSIS
INPUTS
STUDENT DATA SOURCES
(eg.: csv,sql database,etc)
PROCESSING
DATA CLEANING AND TRANSFORMATION
cleaned data
transformed data
PROCESSING
DATA ANALYSIS AND REPORTING
student performance analysis reports
OUTPUTS
STUDENT PERFROMANCE ANALYSIS
REPORTS
(eg:html,pdf,etc)

DFD LEVEL 2


STUDENT PERFORMANCE ANALYSIS
INPUTS
STUDENT DATA SOURCES
(eg.: csv,sql database,etc)
PROCESSING
DATA CLEANING AND TRANSFORMATION
raw data
data cleaning
cleaned data
data transformation
transformed data
PROCESSING
DATA ANALYSIS AND REPORTING
transformed data
performance metrics calculation
student performance metrics
performance reports
OUTPUTS
STUDENT PERFROMANCE ANALYSIS
REPORTS
(eg:html,pdf,etc)

User Stories

USER TYPE	FUNCTIONAL REQUIREMENT	USER STORY NUMBER	USER STORY/TASK	ACCEPTANCE CRITERIA	PRIORITY	TEAM MEMBER
Teacher	Performance Dashboard	US001	As a teacher, I want to be able to see the grades and overall performance of all my students in a particular class, so that I can identify areas of strength and weakness and adjust my teaching approach accordingly.	1. The performance dashboard displays all students in the selected class with their corresponding grades and overall performance. 2. The performance dashboard can be filtered and sorted based on different criteria such as grade level, gender, or performance level. 	High	Muthulakshmi R

				3. The performance dashboard provides a user-friendly interface such as a table or chart.		
School Administrator	Report Generation	US002	As a school administrator, I want to be able to generate reports on student performance over time, so that I can track trends and identify areas of improvement or concern.	1. The report generation feature allows the user to select parameters such as time range, student groups, and subject areas. 2. The generated report presents the retrieved data in a user-friendly format such as a table or chart. 3.	Medium	Ameenath Fahmida D M

				The generated report can be exported in a variety of formats such as PDF or CSV. 4. The generated report can be filtered and sorted based on different criteria such as grade level, gender, or performance level.		
Parent	Parent Portal	US003	As a parent, I want to be able to see my child's grades and overall performance in each subject, so that I can monitor their progress and provide support	1. The parent portal allows parents to access their child's performance data. 2. The parent portal displays the child's grades and overall performance	Medium	Swathi Priya S G

			where needed	in each subject. 3. The parent portal provides a user-friendly interface such as a table or chart. 4. The parent portal can be filtered and sorted based on different criteria such as grade level, subject, or performance level.		
Student	Student Portal	US004	As a student, I want to be able to see my own grades and overall performance, so that I can track my progress and identify areas	1. The student portal allows students to access their own performance data. 2. The student portal displays the student's grades and overall performance	Medium	Swetha P

			where I need to improve.	in each subject. 3. The student portal provides a user-friendly interface such as a table or chart.		