DATA DICTIONARY

DATA PROCESSES

Process Name	Authentication
Description	This interacts with all 3 entities. It takes the login request from the admin, teacher & student and gives access to enter the system.
Inbound Data Flows	Login request,user
Outbound Data Flows	Verify user login details, Response

Process Name	Manage Users
Description	This manages number of user that can have access to see, remove and update details stored in the system.
Inbound Data Flows	Verify User data
Outbound Data Flows	Response of Login Credentials

Process Name	Student Information System
Description	After verification admin, teacher and students gets access to see/edit details stored in the system.
Inbound Data Flows	View/Update/Fetch user details
Outbound Data Flows	Status,Details

DATA FLOWS

Data Flow Name	Login Request
Description	Request by user to login into student information system
To Process	Authentication
From Process	
Database used	

Data Flow Name	Verify
Description	Verifying the user by checking login credentials
To Process	Manage Users
From Process	Authentication
Database used	Login Credentials

Data Flow Name	Response
Description	Response given after authenticating the details
To Process	
From Process	Authentication
Database used	

Data Flow Name	Update Data
Description	Updating user's data
To Process	
From Process	Student Information System
Database used	TEACHER DB,STUDENT DB,MARKS DB, ATTENDANCE DB, TIMETABLE DB

Data Flow Name	Fetch Data
Description	Fetching user's Data
To Process	Student Information System
From Process	
Database used	Marks DB, ATTENDANCE DB, TIMETABLE TB

Data Flow Name	View Details
Description	User can view the details
To Process	
From Process	Student Information System
Database used	TEACHER DB,STUDENT DB,MARKS DB, ATTENDANCE DB, TIMETABLE DB

Data Flow Name	View/Edit Profile
Description	User can view and edit the profile
To Process	Student Information System
From Process	
Database used	TEACHER DB,STUDENT DB

Data Flow Name	Request Details
Description	
To Process	Student Information System
From Process	
Database used	TEACHER DB,STUDENT DB,MARKS DB, ATTENDANCE DB, TIMETABLE DB

DATABASE STRUCTURE

Legend	P - Primary key
	F - Foreign Key

Table Name	Field_name	Data Type	Data size	Constraints	Description
User	User_ID	String	10	P	Identifies the user uniquely
	Password	String	20	Required	Login password for user
	Is_student	Bool	1		Tells if user is student

	Is_teacher	Bool	1		Tells if user is teacher
Teacher	Teacher_Id	String	10 P		Identifies teacher uniquely
	Name	String	20		Name of teacher
	Address	String	100		Address of teacher
	DOB	Date	10		Date of birth of teacher
	Age	INT	4		Age of teacher
	Gender	CHAR	1		Gender of teacher
	Contact	String	10		Contact details
	Email_ID	String	50		Email-ID of teacher
Student	Student_Id	String	10 P		Identifies student uniquely
	Name	String	20		Name of student
	Address	String	100		Address of student
	DOB	Date	10		Date of birth of student
	Age	INT	4		Age of student
	Gender	CHAR	1		Gender of student
	Contact	String	10		Contact details
	Email-ID	String	50		Email-ID of student
Course	Course_ID	String	10 P		Identifies course uniquely
	Course_Name	String	20		Name of Course
Marks	Quiz_1	INT	3	NOT NULL	Marks of Quiz-1
	Quiz_2	INT	3	NOT NULL	Marks of Quiz-2
	MST	INT	3	NOT NULL	Marks of mid-semester exam
	EST	INT	3	NOT NULL	Marks of end-semester exam
	Course_ID	String	10 F		Identifies course uniquely
	Student_ID	String	10 F		Identifies user uniquely
Course taken	Student_ID	String	10 F		
	Course_ID	String	10 F		
Course teaching	Teacher_ID	String	10 F		
	Course_ID	String	10 F		
Attendance	Student_ID	String	10 F		
	Course_ID	String	10 F		
	Date	Date	10		Particular date
	Status	Bool	1		Whether present/absent
Timetable	User_ID	String	10 F		
	Day	String	10 P		Particular day of week
	Slot_1	String	5		Course_ID assigned to this slot
	Slot_2	String	5		Course_ID assigned to this slot
	Slot_3	String	5		Course_ID assigned to this slot
	Slot_4	String	5		Course_ID assigned to this slot
	Slot_5	String	5		Course_ID assigned to this slot