# STUDENT MANAGEMENT SERVICE

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# 1. SCHEMA DETAILS

# • Table 1: For storing student login details

FIELD NAME	DATA TYPE	DESCRIPTION	
SID	STRING	A unique id assigned to each student	PRIMARY KEY, NOT NULL, AUTO-INCREMENT
PASS	STRING	Password of each student	NOT NULL

# • Table 2: For storing the student details

FIELD NAME	DATA TYPE	DESCRIPTION	
SID	STRING	Unique ID of the student	FOREIGN KEY, NOT NULL,
S_NAME	STRING	Name of the student	NOT NULL
CLASS	STRING	Class to which the student belongs to	NOT NULL
AY	INT	Academic Year	NOT NULL
SUB1	INT	Marks obtained in Subject 1	-
SUB2	INT	Marks obtained in Subject 2	-
SUB3	INT	Marks obtained in Subject 3	-
		(Other subject marks if any)	

YOJ	INT	The year when the student	NOT NULL
		joined the school	
AVGM	FLOAT	The average of the marks	NOT NULL
		obtained in various subjects by	
		the student	

# • Table 3: For storing teacher login details

FIELD NAME	DATA TYPE	DESCRIPTION	
TID	STRING	A unique id assigned to each teacher	PRIMARY KEY, NOT NULL, AUTO-INCREMENT
PASS	STRING	Password of each student	NOT NULL

# • Table 4: For storing the faculty details

FIELD NAME	DATA TYPE	DESCRIPTION	
TID	STRING	Unique ID of the teacher	FOREIGN KEY, NOT NULL
T_NAME	STRING	Name of the teacher	NOT NULL
SUB	STRING	Subject taught by the teacher	NOT NULL
CLASS	INT	Class taught by the teacher	NOT NULL

# 2. OPERATIONS TO BE PERFORMED:

- > Select To retrieve data from the database according to the relevant get request
- > Insert To insert new data into the database as provided by a valid post request
- > **Update** To make changes in the database according to the put request made by the user

Avg() – To find the average of all the marks obtained by a student, which will be
utilised to rank the students in the dashboard

$\triangleright$	Order by -	To sort the	students in	descending	order based	l on their average	e marks
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# API CONTRACTS:

# 1. POST/sms/student/login – Logs student into the system

# **PARAMETERS:**

- o SID
- o Password

# **JSON ENTITIES:**

"sid": "string"

"pass": "string"

# **DEFAULT RESPONSE:**

Successfully Logged in

Token ID and expiry time

# **ERROR**:

Invalid sid/password

# 2. POST/sms/teacher/login – Logs teacher into the system

# PARAMETERS: O TID O Password JSON ENTITIES: O "sid": "string" O "pass": "string" DEFAULT RESPONSE: O Successfully Logged in O Token ID and expiry time ERROR: Invalid Tid/password

**3. POST/teacher/student/add**— Add a new student

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PARAMETERS:

Name
Class
Year

JSON ENTITIES:

"name":"string"

"class":"integer"

"year":"integer"

DEFAULT RESPONSE:

Successfully added

ERROR:

Invalid Input
```

	PARAMETERS:
	No parameters
	DEFAULT RESPONSE:
	Successful Operation
. (	ET/student/dashboard – To show the performance of the students based on
1	e average marks obtained by each student, sorted according to the academic year
	PARAMETERS:
	No parameters
	DEFAULT RESPONSE:
	Successful Operation
	PARAMETERS:
	No parameters
	DEFAULT RESPONSE:
	Successful Operation
,	ET/teacher/student/marks- To get the marks list of all the students.
	PARAMETERS:
	No parameters
	DEFAULT RESPONSE:
	Successful Operation

# 8. PUT/teacher/:tid/student/:sid/marks -

	PARAMETERS:	
	o Year	
	o Marks	
	o Class	
	JSON:	
	"year":"integer"	
	"class":"integer"	
	"marks":"integer"	
	DEFAULT RESPONSE:	
	Successful Operation	
	ERROR:	
	Invalid Input	
9.	DELETE/student/:sid/login— Logs out current logged  PARAMETERS:	in student session
	No parameters	
	DEFAULT RESPONSE:	
	Successfully Logged Out	
10.	DELETE /teacher/:tid/login - Logs out current logge	d in teacher session
	PARAMETERS:	
	No parameters	
	DEFAULT RESPONSE:	
	Successfully Logged Out	