

Problem Statement:

ATTENDANCE MODULE (Group 18)

1. INTRODUCTION TO PROJECT:

1.1 BRIEF DESCRIPTION:

This paper attempts to develop an Online Student Attendance Management System to illustrate the Online Service Using Stored Information. This online system is based on three tier client server application model. Manual control of attendance is time consuming and not effective. This project is intended to produce an automated solution for attendance management. Using this online system, daily attendance of students in schools and colleges can be easily managed.

Purpose:

Objectives of this online system are:

- Teachers can manage attendance using computerized data management so that paperwork can be eliminated.
- Generate attendance reports any time which allows teachers to know student is eligible to attend the exams or not.
- Students can endorse the reason for absence.

1.2 SCOPE:

This online based tool can be used in schools, colleges and universities and the instructors can manage database of each student effectively.

This online software can be used by administrators, teachers and students.

Moving on, this simple attendance system project in PHP focuses mainly on dealing with students regarding their attendance and records. Also, the

system displays all the available data such as student's details and their respective attendance. The project is divided into three categories: Dashboard, Student Panel and Teacher's Panel. In an overview of this web project, the teacher has access to insert student data. Talking more about the project, In terms of the teacher's account, he/she can filter student data and maintain his/her attendance. Besides, the student can only view records and attendance reports

Last but not least, a clean and simple dashboard is presented with simple colour combinations for a greater user experience while using this simple attendance system project in PHP. For its UI elements, a free open-source CSS framework; Bootstrap is on board. Presenting a new simple attendance system project in PHP MySQL which includes a dashboard with student and teacher's panel that contains all the essential features to follow up.

Available Features:

- Dashboard
- Student Panel
- Teacher Panel
- Add student data
- Maintain Attendance
- Attendance Report

1.3 TABLE DESCRIPTION:

1.3.1 tbl_attendance:

```
Command Prompt - mysql -u root -p -h localhost

C:\Users\Ajit>mysql -u root -p -h localhost
Enter password:
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 31
Server version: 10.1.21-MariaDB mariadb.org binary distribution

Copyright (c) 2000, 2016, Oracle, MariaDB Corporation Ab and others.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MariaDB [(none)]> use group18;
Database changed
MariaDB [group18]> show tables;
+-----+
| Tables_in_group18 |
+-----+
| tbl_attendance    |
| tbl_student       |
+-----+
2 rows in set (0.00 sec)

MariaDB [group18]> desc tbl_attendance;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| id     | int(11) | NO | PRI | NULL | auto_increment |
| roll   | int(11) | NO |     | NULL |                 |
| attend | varchar(255) | NO |     | NULL |                 |
| att_time | date | NO |     | NULL |                 |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.06 sec)
```

- Data present in tbl_attendance:

Command Prompt - mysql -u root -p -h localhost

MariaDB [group18]> select * from tbl_attendance;

id	roll	attend	att_time
1	1	absent	2021-07-08
2	2	present	2021-07-08
3	3	absent	2021-07-08
4	4	absent	2021-07-08
5	5	present	2021-07-08
6	6	present	2021-07-08
7	7	absent	2021-07-08
8	8	absent	2021-07-08
9	9	present	2021-07-08
10	10	present	2021-07-08
11	11	absent	2021-07-08
12	12	absent	2021-07-08
13	13	present	2021-07-08
14	14	absent	2021-07-08
15	15	present	2021-07-08
16	1	absent	2021-07-09
17	2	present	2021-07-09
18	3	absent	2021-07-09
19	4	absent	2021-07-09
20	5	present	2021-07-09
21	6	present	2021-07-09
22	1	absent	2021-07-10
23	2	absent	2021-07-10
24	3	present	2021-07-10
25	4	present	2021-07-10
26	5	absent	2021-07-10
27	1	absent	2021-07-11
28	2	present	2021-07-11
29	3	absent	2021-07-11
30	4	present	2021-07-11
31	5	absent	2021-07-11
32	6	present	2021-07-11
33	1	present	2021-07-12
34	2	present	2021-07-12
35	3	absent	2021-07-12
36	4	absent	2021-07-12
37	5	absent	2021-07-12
38	6	present	2021-07-12
39	7	absent	2021-07-12
40	8	absent	2021-07-12

Command Prompt - mysql -u root -p -h localhost

41	9	absent	2021-07-12
42	10	absent	2021-07-12
43	11	absent	2021-07-12
44	12	present	2021-07-12
45	13	absent	2021-07-12
46	14	absent	2021-07-12
47	15	present	2021-07-12
48	1	present	2021-07-13
49	2	present	2021-07-13
50	3	absent	2021-07-13
51	4	absent	2021-07-13
52	5	present	2021-07-13
53	6	absent	2021-07-13
54	7	absent	2021-07-13
55	8	present	2021-07-13
56	9	absent	2021-07-13
57	10	present	2021-07-13
58	11	present	2021-07-13
59	12	absent	2021-07-13
60	13	absent	2021-07-13
61	14	absent	2021-07-13
62	15	present	2021-07-13
63	1	absent	2021-07-15
64	2	present	2021-07-15
65	3	present	2021-07-15
66	4	absent	2021-07-15
67	5	absent	2021-07-15
68	6	absent	2021-07-15
69	7	absent	2021-07-15
70	8	absent	2021-07-15
71	9	present	2021-07-15
72	10	present	2021-07-15
73	11	absent	2021-07-15
74	12	absent	2021-07-15
75	13	absent	2021-07-15
76	14	present	2021-07-15
77	15	present	2021-07-15

+-----+
77 rows in set (0.00 sec)

1.3.2 tbl_student and Data present in tbl_student:

```

C:\> Command Prompt - mysql -u root -p -h localhost
MariaDB [group18]> desc tbl_student;
+-----+-----+-----+-----+-----+-----+
| Field | Type          | Null | Key | Default | Extra          |
+-----+-----+-----+-----+-----+-----+
| id     | int(11)       | NO   | PRI | NULL    | auto_increment |
| name   | varchar(255)  | NO   |     | NULL    |                |
| roll   | int(11)       | NO   |     | NULL    |                |
| branch | varchar(255)  | NO   |     | NULL    |                |
| division | varchar(255) | NO   |     | NULL    |                |
| city   | varchar(255)  | NO   |     | NULL    |                |
+-----+-----+-----+-----+-----+-----+
6 rows in set (0.06 sec)

MariaDB [group18]> select * from tbl_student;
+-----+-----+-----+-----+-----+-----+
| id | name                | roll | branch      | division | city          |
+-----+-----+-----+-----+-----+-----+
| 1  | Pragati Gopal Mahajan | 1    | COMPUTER    | B        | mumbai        |
| 2  | Tejashree Arun Kate   | 2    | Computer    | A        | raigad        |
| 3  | Deepak Vishvkarma    | 3    | Electronics  | A        | mumbai        |
| 4  | Sandesh Ghegadmal     | 4    | Mechanical   | B        | sangli        |
| 5  | Shrushti Raman Girap  | 5    | Computer    | A        | mumbai        |
| 6  | Suchita Boga         | 6    | ELECTRONICS  | B        | pune          |
| 7  | Kunal Nirbhavne      | 7    | MECHANICAL   | B        | mumbai        |
| 8  | naveed ahmed         | 8    | MECHANICAL   | A        | kalyan        |
| 9  | Vaishnavi Amage      | 9    | COMPUTER    | A        | mumbai        |
| 10 | Om Mayekar           | 10   | Mechanical   | B        | mumbai        |
| 11 | Viraj Bhor           | 11   | COMPUTER    | B        | navi mumbai   |
| 12 | Krishna Chavan       | 12   | ELECTRONICS  | A        | mumbai        |
| 13 | Akshay Shinde        | 13   | EXTC        | B        | aurangabad    |
| 14 | Sudhir Tripathi      | 14   | MECHATRONICS | A        | mumbai        |
| 15 | Rutuja Thakur        | 15   | COMPUTER    | B        | nashik        |
+-----+-----+-----+-----+-----+-----+
15 rows in set (0.00 sec)

MariaDB [group18]>
```

2. DESIGN:

2.1 ENTITY RELATIONSHIP DIAGRAM:

ER Relationship model allows us to describe the data involved in a real-world enterprise in terms of objects and their relationship widely used to develop an initial database design. It is primarily important in its role in database design.

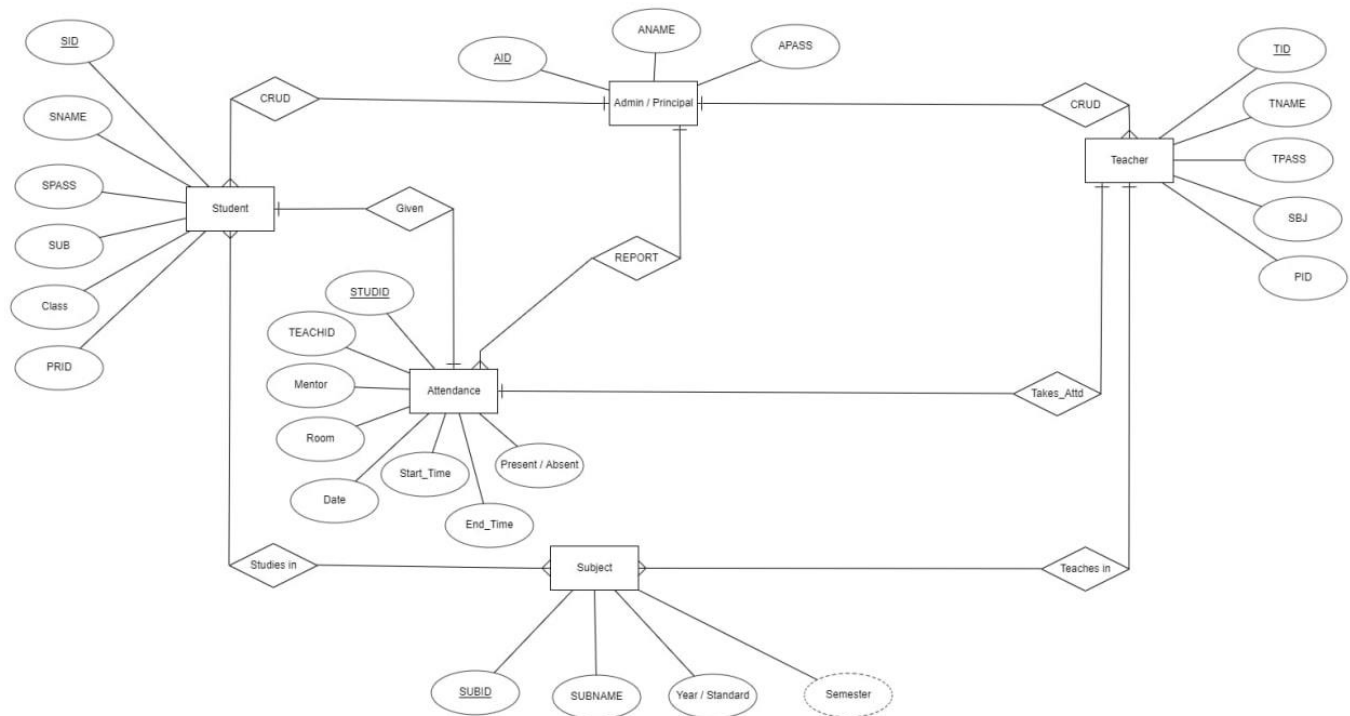


Fig 2.1: ER diagram

In this ER Diagram shown in Fig 2.1 Entities ADMIN, STUDENT, TEACHER, ATTENDANCE and SUBJECT are represented by rectangles, attributes of the tables are represented by ovals and relationships are represented using diamonds.

3. SOFTWARE/HARDWARE REQUIREMENTS:

3.1 HARDWARE REQUIREMENTS:

- I. A desktop or laptop with a proper internet connection.
- II. 20 GB of hard disk (free space)
- III. Minimum 2GB or Greater of the RAM
- IV. Windows 7 /8 or 10 Operating system.

3.2 SOFTWARE REQUIREMENTS:

3.2.1 SERVER SIDE:

- i. **Programming language:** PHP 5.3 or higher (Used as the Web development environment.)
- ii. **XAMPP/WAMP for localhost:** Used as the Webpage hosting server.
- iii. **Web Server:** Apache HTTP server.
- iv. **Database:** MySQL 5.6 or higher for spatial features in MySQL.

3.2.2 CLIENT SIDE:

- i. **Programming language:** JAVASCRIPT, HTML, CSS, PHP and BOOTSTRAP.
- ii. **OS:** windows 7/8/10.
- iii. **MYSQL server.**

3.2.1.1 PHP:

“PHP (Hypertext Pre-processor) is a popular general-purpose server-side scripting language which can be embedded into HTML to create a wide variety of mini-applications, but can also be used to build large-scale complex applications.” (Web Accessibility and Development Glossary).

PHP is a server-side scripting language designed primarily for web development but also used as a general programming language. PHP code may

be embedded into HTML or HTML5 markup or it can be used in combination with various web template systems, web content management systems, and web frameworks. PHP code is usually processed by a PHP interpreter implemented as a module in the web server. The web server software combines the results of the interpreted and executed PHP code, which may be any type of data, including images, with the generated webpage.

3.2.1.2 XAMPP:

“A scripting language developed by Netscape to enable Web authors to design interactive sites. Although it shares many of the features and structures of the full Java language, it was developed independently.” (JavaScript).

3.2.1.3 WEB SERVER: APACHE:

Apache is the most widely used web server software. Developed and maintained by Apache Software Foundation, Apache is open-source software available for free. It runs on 67% of all web servers in the world. It is fast, reliable, and secure. It can be highly customized to meet the needs of many different environments by using extensions and modules. Most WordPress hosting providers use Apache as their web server software. However, WordPress can run on other web server software as well.

3.2.2.1 HTML:

HTML is an acronym that stands for Hypertext Markup Language.

Hypertext: Hypertext simply means "Text within Text". A text has a link within it, is a hypertext. Every time you click on a word that brings you to a new webpage, you have clicked on a hypertext.

Markup language: A markup language is a programming language that is used to make text more interactive and dynamic. It can turn a text into images,

tables, links, etc. An HTML document is made of many HTML tags and each HTML tag contains different content.

3.2.2.2 JAVASCRIPT:

JavaScript is a dynamic computer programming language. It is lightweight and most commonly used as a part of web pages, whose implementations allow client-side script to interact with the user and make dynamic pages. It is an interpreted programming language with object-oriented capabilities.

4. INSTALLATION:

1. **Install XAMPP or WAMP.** If you already have it then skip.
2. Open XAMPP Control panel and start [**apache**] and [**mysql**].
3. Download the source code and extract the source code to a web accessible folder **C:\xampp\htdocs**.
4. Create a database (**group18**) and import database from given **group18.sql** file.
5. After importing successfully. open any browser and type **https://localhost/group-18/**.
6. You are ready to go!

5. THE WORK DONE BY THE STUDENTS:

TEAM-1:

- @Kunal-Nirbhavne - nirbhavnekunal@gmail.com [1]
- @VaishnaviAmage-123 - vaishnaviamage@ternaengg.ac.in [2]
- @Rutuja1101 - rutujathakur@ternaengg.ac.in [3]
- @krishnachavan01 - krishnachavan1180@gmail.com [4]
- @OM2208 - mayekarom5@gmail.com [5]

Work done:

- **Setting up server:** Apache is the name of our web server wherein it will handle all the files as well as serve as the communication to the web browser. [1] [2]
- **Creating the HOME Page: index.php** - The home page of the website. [3] [4]
- **Creating the includes Pages:**
 - **header.php** - header of the website. [2] [4]
 - **navbar.php** - navigation bar of the website. [1] [3] [5]
 - **scripts.php** - all scripts of the website. [3] [5]
 - **footer.php** - footer of the website. [2] [4]
- **js:** It contains javascript files for the website. [3] [4]
- **css:** The stylesheet files for the website. [1] [2] [3] [5]
- **images:** Images for the website. [1] [5]

TEAM-2:

- @Tejashree-16 - tejashreekate16112000@gmail.com [6]
- @AkshayRShinde - akshayshinde@ternaengg.ac.in [7]
- @Pragatimahajan - pragatigmahajan@gmail.com [8]
- @boga1568 - suchitaboga1568@gmail.com [9]

Work done:

Main content of website (pages):

- **Teacher Section:**
 - **teachersection.php:** take attendance. [6] [7] [9]
 - **date_view.php:** date wise attendance report. [7] [9]
 - **student_view.php:** update attendance.[6] [7]
 - **add.php:** add student.[7] [8]
- **Student Section:**
 - **studentsection.php:** attendance report. [6] [8] [9]
 - **student_section_view.php:** check attendance. [6] [8]
 - **allstudents.php:** all student data present in database. [8] [9]

TEAM-3:

- @ShrushtiGirap - shrushtigirap@gmail.com [10]
- @DeepakXY - deepakvishwkarma285@gmail.com [11]
- @naveedahmed918 - naveedahmed@ternaengg.ac.in [12]
- @RebelS7 - sudhirtripathi012001@gmail.com [13]

Work done:

- **Creating the database and its tables:** MySQL is our database which will store all of our information. [10] [12]
- **Database Connection lib (config.php - Database connection script):** It contain configuration files, common functions and database connection script. [10] [11] [12] [13]
- **Preparing the Database: database.php** file utilize CRUD statements in SQL - Create, read, update and delete records in a database. [10] [11] [13]
- **Capturing User Input:** student.php & format.php.
 - Adding Records to the Database. [11] [12]
 - Retrieving Records from the Database. [10] [12] [13]
 - Updating Records. [11] [13]

APPENDIX – SCREENSHOTS

A. DASHBOARD PAGE:

This is the first window when the project is executed as shown in Fig A.1

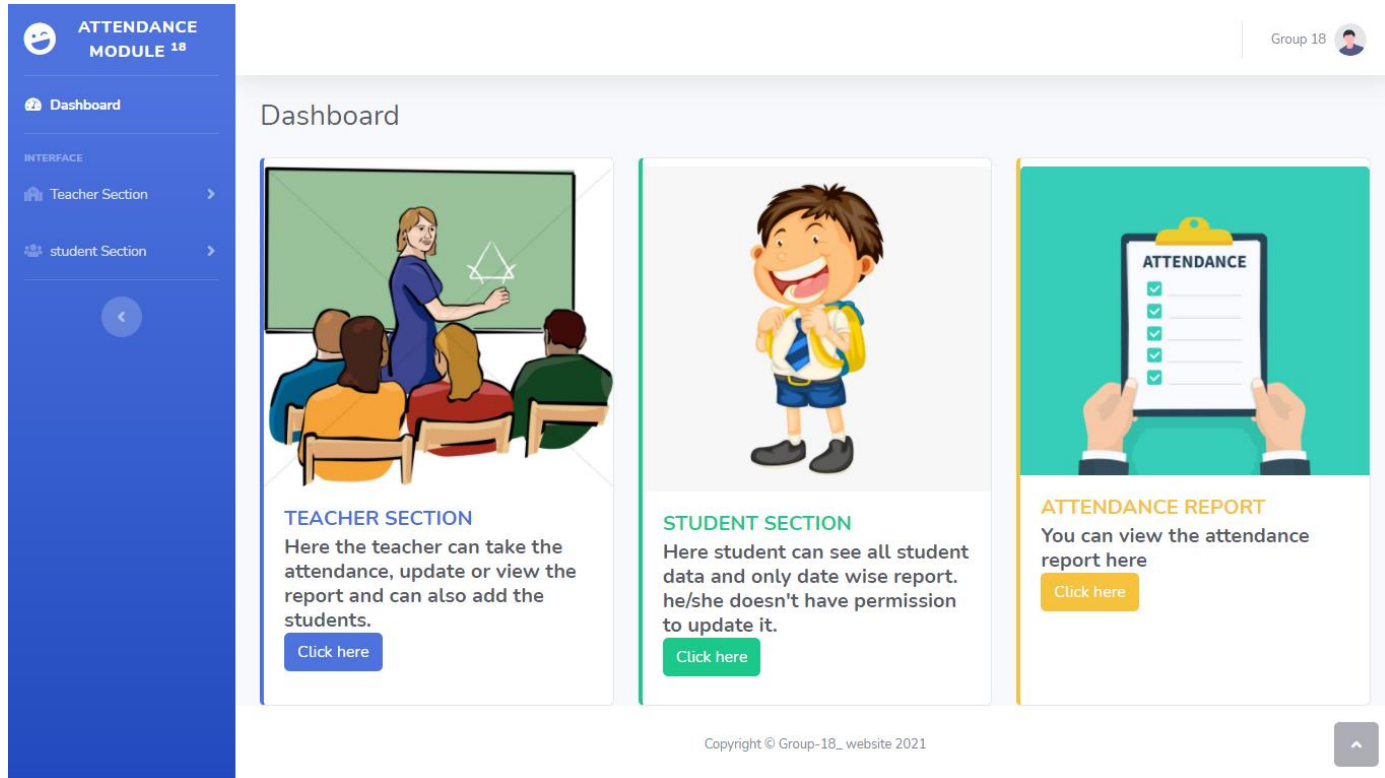


FIG A.1 Dashboard Page

B. TEACHER SECTION:

B.1 TAKE ATTENDANCE:

Here the teacher can take attendance of every student individually. In
Fig B.1

ATTENDANCE MODULE 18

Group 18

Success ! Attendance data inserted successfully !

Attendance

Here the teacher can take the attendance of every student individually and we can see the report here [Attendance Report](#).

DataTable

[Add Student](#) [Attendance Report](#)

Date: 2021-07-15

S/L	Student Name	city	branch	division	Student Roll	Attendance
1	Pragati Gopal Mahajan	mumbai	COMPUTER	B	1	<input checked="" type="radio"/> Present <input type="radio"/> Absent
2	Tejashree Arun Kate	raigad	Computer	A	2	<input type="radio"/> Present <input checked="" type="radio"/> Absent
3	Deepak Vishvkarma	mumbai	Electronics	A	3	<input checked="" type="radio"/> Present <input type="radio"/> Absent
4	Sandesh Ghedmal	sangli	Mechanical	B	4	<input checked="" type="radio"/> Present <input type="radio"/> Absent
5	Shrushti Raman Girap	mumbai	Computer	A	5	<input type="radio"/> Present <input checked="" type="radio"/> Absent
6	Suchita Boga	pune	ELECTRONICS	B	6	<input checked="" type="radio"/> Present <input type="radio"/> Absent
7	Kunal Nirbhavne	mumbai	MECHANICAL	B	7	<input type="radio"/> Present <input checked="" type="radio"/> Absent
8	naveed ahmed	kalyan	MECHANICAL	A	8	<input type="radio"/> Present <input checked="" type="radio"/> Absent
9	Vaishnavi Amage	mumbai	COMPUTER	A	9	<input checked="" type="radio"/> Present <input type="radio"/> Absent
10	Om Mayekar	mumbai	Mechanical	B	10	<input type="radio"/> Present <input checked="" type="radio"/> Absent
11	Viraj Bhor	navi mumbai	COMPUTER	B	11	<input type="radio"/> Present <input checked="" type="radio"/> Absent
12	Krishna Chavan	mumbai	ELECTRONICS	A	12	<input checked="" type="radio"/> Present <input type="radio"/> Absent
13	Akshay Shinde	aurangabad	EXTC	B	13	<input type="radio"/> Present <input checked="" type="radio"/> Absent
14	Sudhir Tripathi	mumbai	MECHATRONICS	A	14	<input checked="" type="radio"/> Present <input type="radio"/> Absent
15	Rutuja Thakur	nashik	COMPUTER	B	15	<input type="radio"/> Present <input checked="" type="radio"/> Absent
S/L	Student Name	city	branch	division	Student Roll	Attendance

[Submit](#)

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FIG B.1 Take Attendance Page

B.2 ATTENDANCE REPORT:

Here the teacher can use the date wise report of the students. In Fig B.2

ATTENDANCE MODULE 18

Dashboard

INTERFACE

Teacher Section

TEACHER ACCESS:

- Take Attendance
- Update/View Report
- Add Students

student Section

Datewise Attendance Report

Here the teacher can see the date wise report of the students, please visit [Date Wise Report](#).

DataTable

Take Attendance Back

Date: 2021-07-15

S/L	Attendance Date	Action
1	2021-07-08	View/Update
2	2021-07-09	View/Update
3	2021-07-10	View/Update
4	2021-07-11	View/Update
5	2021-07-12	View/Update
6	2021-07-13	View/Update
7	2021-07-15	View/Update

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FIG B.2 Attendance Report Page

B.3 VIEW/UPDATE ATTENDANCE:

Here teacher can see and edit the attendance of students. In Fig B.3

ATTENDANCE
MODULE 18

Dashboard

INTERFACE

Teacher Section

TEACHER ACCESS:
Take Attendance
Update/View Report
Add Students

student Section

Group 18

Success ! Attendance data updated successfully !

View/Update Attendance

Here the teacher can see and edit the attendance of students.

DataTable

Back

Date: 2021-07-15

S/L	Student Name	Student Roll	Attendance
1	Pragati Gopal Mahajan	1	<input type="radio"/> Present <input checked="" type="radio"/> Absent
2	Tejashree Arun Kate	2	<input checked="" type="radio"/> Present <input type="radio"/> Absent
3	Deepak Vishvkarma	3	<input checked="" type="radio"/> Present <input type="radio"/> Absent
4	Sandesh Ghegadmal	4	<input type="radio"/> Present <input checked="" type="radio"/> Absent
5	Shrushti Raman Girap	5	<input type="radio"/> Present <input checked="" type="radio"/> Absent
6	Suchita Boga	6	<input type="radio"/> Present <input checked="" type="radio"/> Absent
7	Kunal Nirbhavne	7	<input type="radio"/> Present <input checked="" type="radio"/> Absent
8	naveed ahmed	8	<input type="radio"/> Present <input checked="" type="radio"/> Absent
9	Vaishnavi Amage	9	<input checked="" type="radio"/> Present <input type="radio"/> Absent
10	Om Mayekar	10	<input checked="" type="radio"/> Present <input type="radio"/> Absent
11	Viraj Bhor	11	<input type="radio"/> Present <input checked="" type="radio"/> Absent
12	Krishna Chavan	12	<input type="radio"/> Present <input checked="" type="radio"/> Absent
13	Akshay Shinde	13	<input type="radio"/> Present <input checked="" type="radio"/> Absent
14	Sudhir Tripathi	14	<input checked="" type="radio"/> Present <input type="radio"/> Absent
15	Rutuja Thakur	15	<input checked="" type="radio"/> Present <input type="radio"/> Absent
S/L	Student Name	Student Roll	Attendance

Update

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FIG B.3 View/Update Attendance Page

B.4 ADD STUDENTS:

Here the teacher can add new student. In Fig B.4

ATTENDANCE MODULE 18

Dashboard

INTERFACE

Teacher Section

TEACHER ACCESS:

- Take Attendance
- Update/View Report
- Add Students

student Section

Success ! Student data inserted successfully !

Add New Student

Here the teacher can add new student. You can see here whether a new student has been added or not. [All Students](#).

DataTable

[All Students](#) [Back](#)

Date: 2021-07-15

Student Name
Akshay

city
kamothe

branch
EXTC

division
B

Student Roll
16

[Add](#)

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FIG B.4 Add Students Page

C. STUDENT SECTION:

C.1 ALL STUDENTS DATA:

Here the student can see all student data present in database. in Fig. C.1

ATTENDANCE
MODULE 18

Dashboard

INTERFACE

Teacher Section

student Section

STUDENT ACCESS:
All Students
Student Section (Report)

<

Group 18

Avatar

All Students

Here the student can see all student data present in database.

Home

Attendance Report

Date: 2021-07-15

S/L	Student Name	city	branch	division	Student Roll
1	Pragati Gopal Mahajan	mumbai	COMPUTER	B	1
2	Tejashree Arun Kate	raigad	Computer	A	2
3	Deepak Vishvkarma	mumbai	Electronics	A	3
4	Sandesh Ghegadmal	sangli	Mechanical	B	4
5	Shrushti Raman Girap	mumbai	Computer	A	5
6	Suchita Boga	pune	ELECTRONICS	B	6
7	Kunal Nirbhavne	mumbai	MECHANICAL	B	7
8	naveed ahmed	kalyan	MECHANICAL	A	8
9	Vaishnavi Aamage	mumbai	COMPUTER	A	9
10	Om Mayekar	mumbai	Mechanical	B	10
11	Viraj Bhor	navi mumbai	COMPUTER	B	11
12	Krishna Chavan	mumbai	ELECTRONICS	A	12
13	Akshay Shinde	aurangabad	EXTC	B	13
14	Sudhir Tripati	mumbai	MECHATRONICS	A	14
15	Rutuja Thakur	nashik	COMPUTER	B	15
S/L	Student Name	city	branch	division	Student Roll

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FIG C.1 All Students Data Page

C.2 STUDENT SECTION ATTENDANCE REPORT:

Here student can see only date wise attendance. in Fig. C.2

ATTENDANCE MODULE 18

Dashboard

INTERFACE

Teacher Section

student Section

STUDENT ACCESS:

- All Students
- Student Section (Report)

Student Attendance Report Page

Here student can see only date wise attendance.

DataTable

All Students Back

Date: 2021-07-15

S/L	Attendance Date	Action
1	2021-07-08	View attendance
2	2021-07-09	View attendance
3	2021-07-10	View attendance
4	2021-07-11	View attendance
5	2021-07-12	View attendance
6	2021-07-13	View attendance
7	2021-07-15	View attendance

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FIG C.2 Student Section Attendance Report Page

C.3 CHECK ATTENDANCE:

Here the student can only check whether he was present or absent on a particular date. in Fig. C.3

ATTENDANCE
MODULE 18

Dashboard

INTERFACE

Teacher Section

student Section

STUDENT ACCESS:
All Students
Student Section (Report)

<

Group 18

Attendance

Here the student can only check whether he was present or absent on a particular date.

DataTable

Back

Date: 2021-07-15

S/L	Student Name	Student Roll	Attendance
1	Pragati Gopal Mahajan	1	absent
2	Tejashree Arun Kate	2	present
3	Deepak Vishvkarma	3	present
4	Sandesh Ghedmal	4	absent
5	Shrushti Raman Girap	5	absent
6	Suchita Boga	6	absent
7	Kunal Nirbhavne	7	absent
8	naveed ahmed	8	absent
9	Vaishnavi Aimage	9	present
10	Om Mayekar	10	present
11	Viraj Bhor	11	absent
12	Krishna Chavan	12	absent
13	Akshay Shinde	13	absent
14	Sudhir Tripati	14	present
15	Rutuja Thakur	15	present
S/L	Student Name	Student Roll	Attendance

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↑

FIG C.3 Check Attendance Page

CONCLUSION:

Traditionally, student attendance is managed and maintained manually using papers, registers or other number some means. This is a time-consuming process involving lot of manual work. Instead of this computer-based solution is will provide a platform for easy data management. This will also assist teacher to manage the attendance of student very effectively.