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# **Certificate of Completion**

*The certificate is presented to*

**Usama Zai**

**Rumaisa Bint E Sohail**

*Has successfully Develop & Design an Web Application on*

**(School Management System)**

*During E-PROJECT of HDSE-II (4<sup>th</sup> semester)*

*APTECH Worldwide Computer Education*

*Shahrah-e-Faisal Center, Karachi.*

# **Problem Statement**

## ***Introduction :***

*Nowadays education plays a great role in development of any country. Many of education organizations try to increase education quality. One of the aspects of this improvement is managing of school resources.*

*With growth of internet many of education organizations perform management of education resources online. However, the sites developed by those organizations support a few languages and have to be redesigned in case new languages are required to be added or interface of the entire site is required to be changed. The redesigning process takes a long time since thousand lines of code should be rewritten or modified.*

## ***Proposed Solution :***

*To bring the Automation in the system and to cope up in this competitive world, our client now want to automate the system. By using any admin staff member can generate all this result on few number of clicks. So he has approached us for developing the website. He wants the following list to be maintained and implemented for the website.*

# Requirement Specification

## ***Admin Module:***

- *Group (computer/biology). Example: (7a, 7b, 7c).*
- *Allow pass student to go in new class only.*
- *Student INFORMATION.*
- *Batch information.*
- *Fee Chelan.*
- *Attendance Report.*
- *By monthly find all paid/unpaid student fees.*

## ***Student Panel:***

- *Student can print their Fee Chelan.*
- *Student can see his/her attendance.*
- *Student can see his/her results online.*

## ***Public View:***

- *He wants the website to be navigated through different pages like Home, contact information, About Us, Fee structure, login page for students Feedback and Queries and the ADMIN.*

# Acknowledgement

*We are really grateful because we managed to complete our E-project within the time given by our teacher **Sir Mazhar Karimi**. This assignment cannot be completed without the effort and co-operation from our group members,*

*Group members: **Usama Zai & Rumaisa Bint E Sohail**.*

*We also sincerely thank our teacher **Sir Mazhar Karimi** for the guidance and encouragement in finishing this project and also for teaching us in this course.*

*Last but not the least, we would like to express our gratitude to our friends and respondents for the support and willingness directly or indirectly to spend some times with us to fill in the questionnaires.*

# Project Synopsis

*The School Management System is in essence absolute application to help overall administration of your school. This web application formulates the best use of information available to it and churns out the more useful essentials from a large amount of information available in the database thereby allowing you to take managerial decision leading to better management of resources and analysis of effectiveness of management decisions.*

*The Fee Module is the one of the most automated fee calculation module available in the system. Apart from being automated it is, at the same time, flexible enough to accommodate the varying nature of fee payments that most of the institutions come across.*

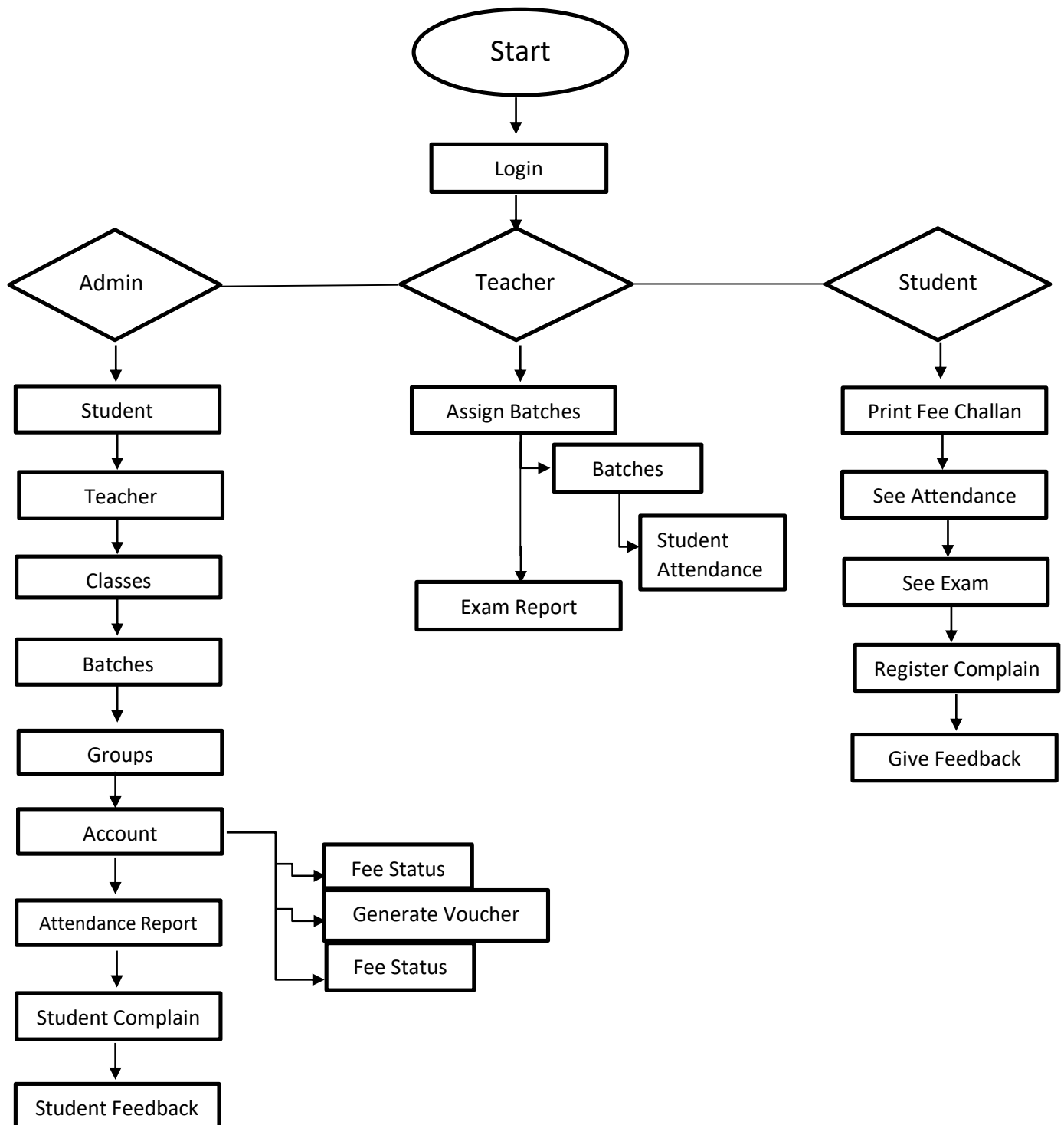
*The attendance module helps in keeping a tab on the attendance of students. By the use of this admin will have the full month view of the attendance of all the batches. The module offers a variety of reports to show attendance records. Percentage of presence calculations and the generation of relevant reports are fully automated.*

*Admin Module ease the administrative burden for the school office and teachers by centrally managing information on admin and student dashboard.*

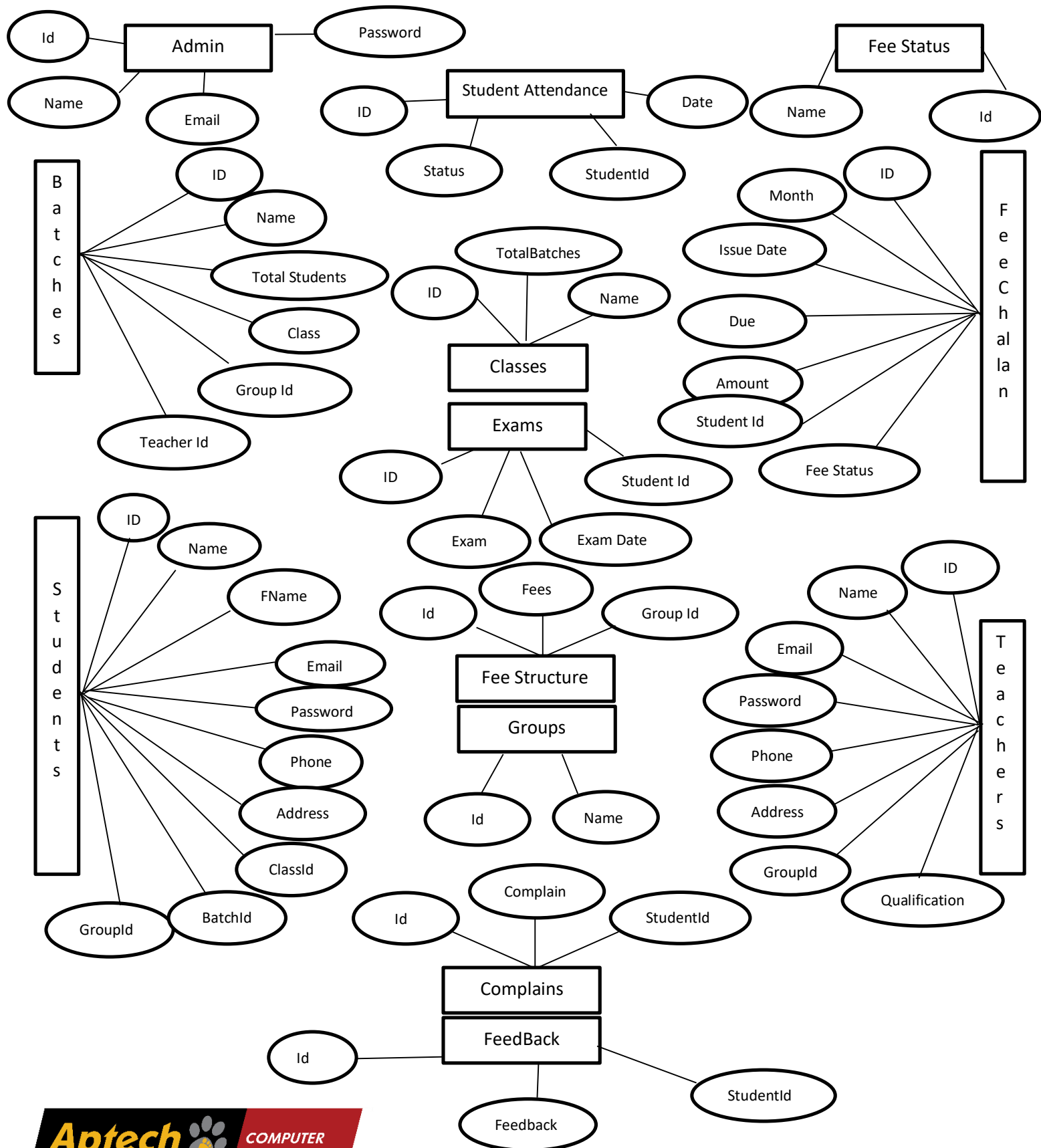


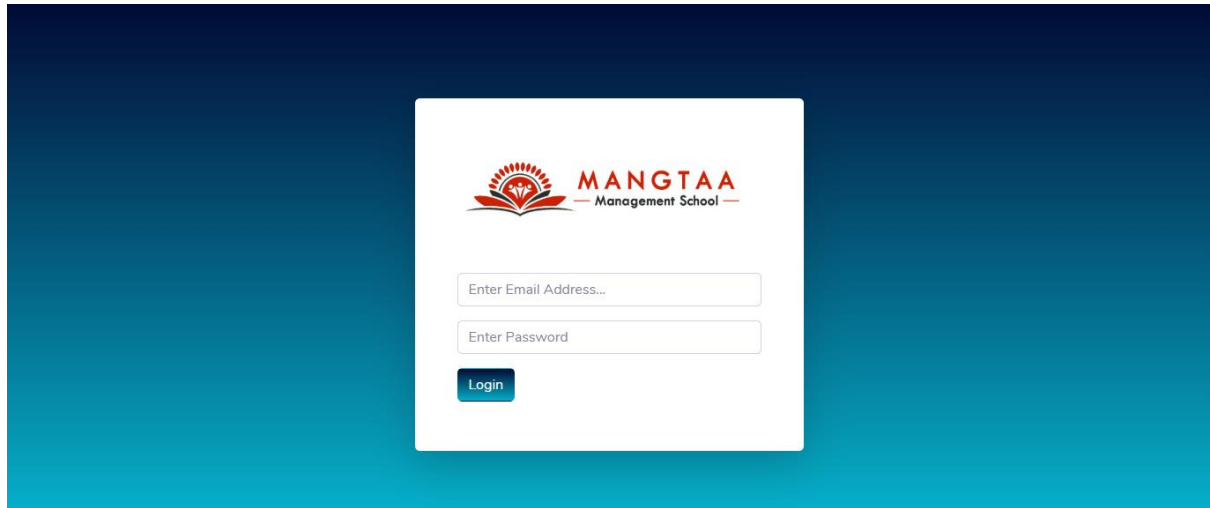


# Flowchart



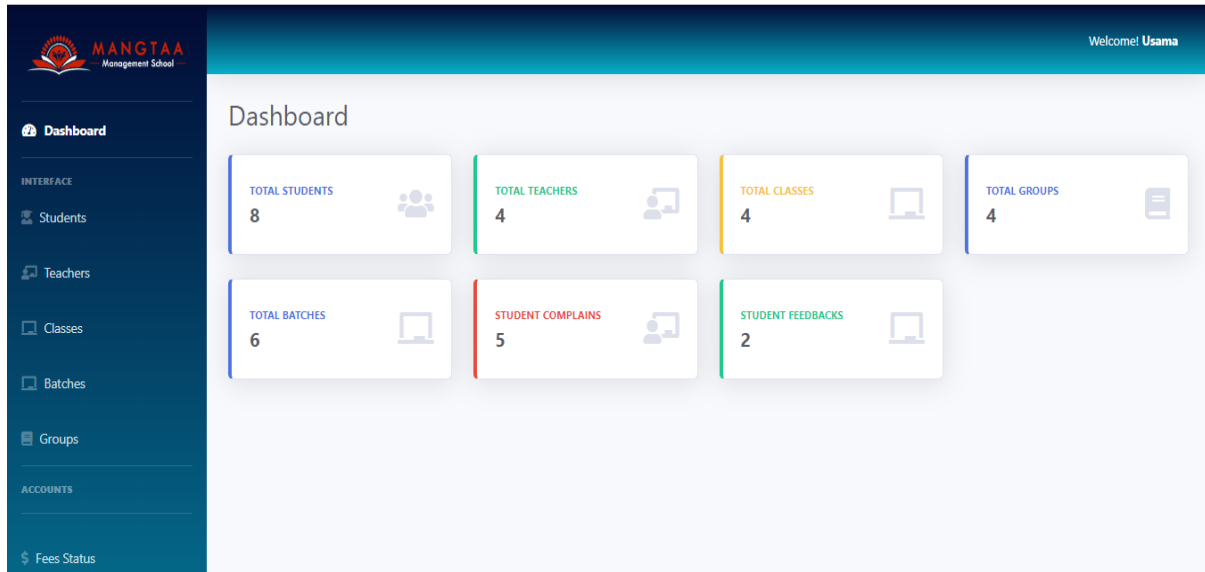
# Dataflow Diagram





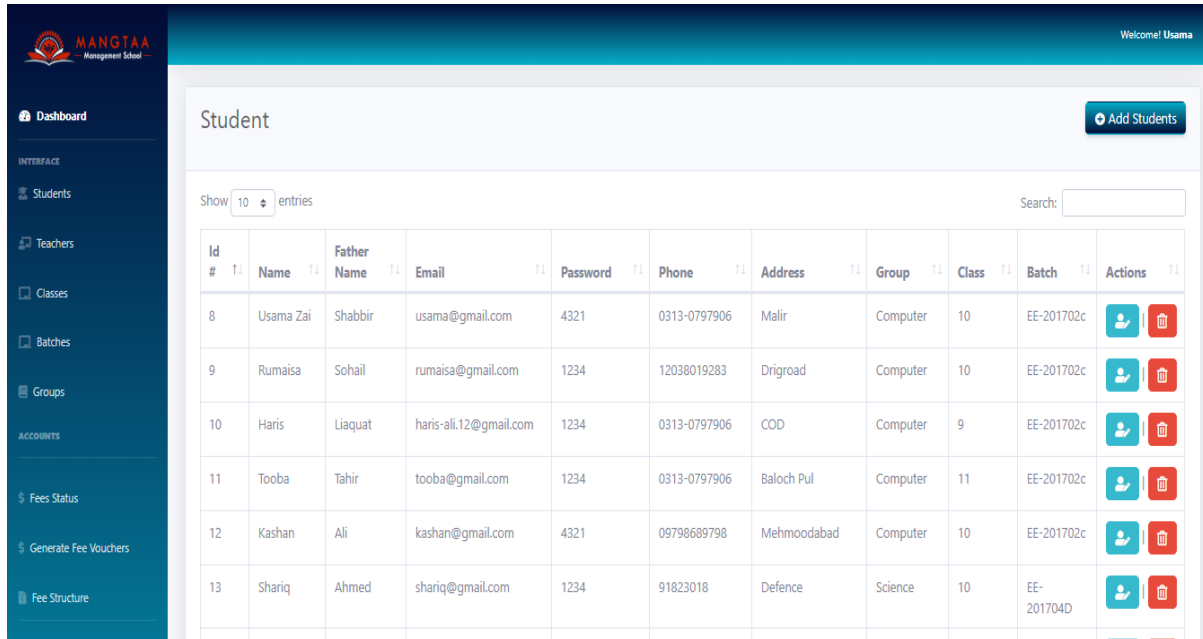
## Login:

*In login form Admin & Employee can login to their dashboards through their email and password and can use their rights.*















## Admin Dashboard:

*On Admin Dashboard admin can maintain, view the details of the Buses, their routes ,Booking list, Centre's and can Set seats, Set routes, Bus types user Types and can also add Employee.*



Student

Show 10 entries Search:

Id #	Name	Father Name	Email	Password	Phone	Address	Group	Class	Batch	Actions
8	Usama Zai	Shabbir	usama@gmail.com	4321	0313-0797906	Malir	Computer	10	EE-201702c	 
9	Rumaisa	Sohail	rumaisa@gmail.com	1234	12038019283	Drigroad	Computer	10	EE-201702c	 
10	Haris	Liaquat	haris-ali.12@gmail.com	1234	0313-0797906	COD	Computer	9	EE-201702c	 
11	Tooba	Tahir	tooba@gmail.com	1234	0313-0797906	Baloch Pul	Computer	11	EE-201702c	 
12	Kashan	Ali	kashan@gmail.com	4321	09798689798	Mehmoodabad	Computer	10	EE-201702c	 
13	Shariq	Ahmed	shariq@gmail.com	1234	91823018	Defence	Science	10	EE-201704D	 

## STUDENT:

*Students info is maintained when a student is added, his name, father name, address, phone, email, password, group from which he/she relates, class and batch assigned to him is organized.*

**MANGTAA**  
Management School

Welcome! Usama

**Teachers** [Add Teachers](#)

Show 10 entries Search:

Name	Email	Password	Phone	Address	Qualification	Group	Actions
Haris	haris@gmail.com	1234	09798689798	Karachi, Karachi	MSC	Science	<a href="#">Add</a> <a href="#">Delete</a>
Haris Ali	harisalihafiz123@gmail.com	1234	0313-0797906	Karachi, Karachi	Software Engineer	Medical	<a href="#">Add</a> <a href="#">Delete</a>
Rumaisa	rumaisa@gmail.com	1234	182309	COD	MBBS	Medical	<a href="#">Add</a> <a href="#">Delete</a>
Usama Zai	usama@gmail.com	4321	0313-0797906	Malir	Software Engineer	Computer	<a href="#">Add</a> <a href="#">Delete</a>

Showing 1 to 4 of 4 entries

Previous 1 Next

# TEACHERS:

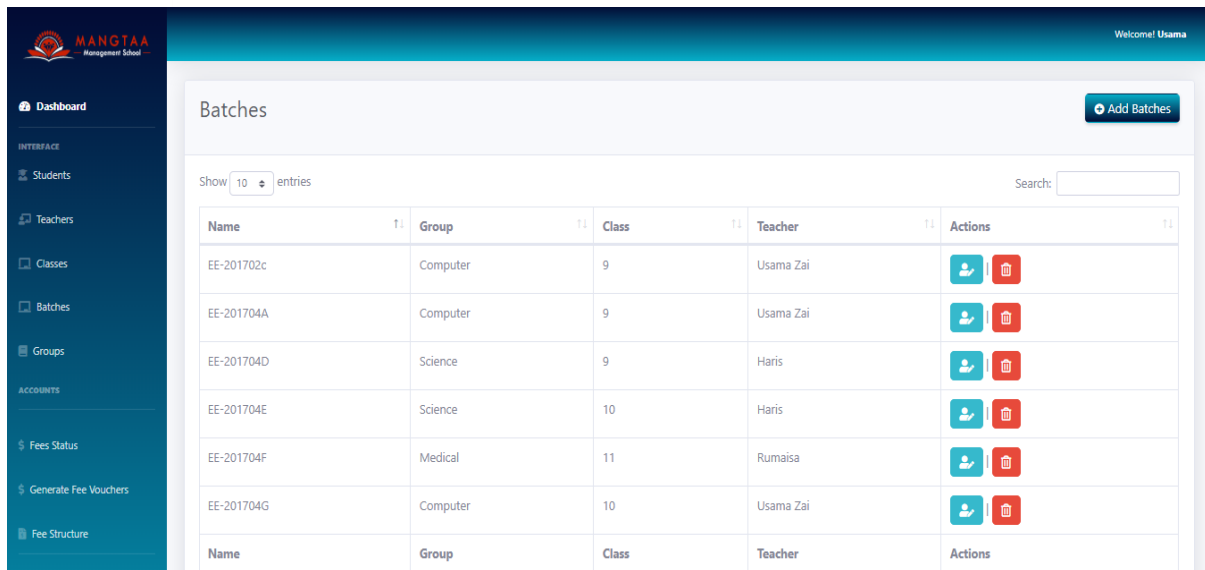
*While adding the teacher, the name of the teacher, email, password, address, phone, Qualification and group is required.*

The screenshot shows the 'Classes' management interface. On the left is a sidebar with a 'Dashboard' button and a list of menu items under 'INTERFACE' (Students, Teachers, Classes, Batches, Groups) and 'ACCOUNTS' (Fees Status, Generate Fee Vouchers, Fee Structure). The main area is titled 'Classes' and features an 'Add Classes' button. Below the title, there's a 'Show 10 entries' dropdown and a search bar. A table lists four classes: 9, 10, 11, and 12. Each class row has an 'Actions' column with edit and delete icons. At the bottom, it says 'Showing 1 to 4 of 4 entries' and has 'Previous', '1', and 'Next' pagination links.

Class	Actions
9	
10	
11	
12	













## Classes Info:

*The data of classes can be maintained by, maintaining classes records according to total batches of each class.*



**Batches**

Show 10 entries Search:

Name	Group	Class	Teacher	Actions
EE-201702c	Computer	9	Usama Zai	 
EE-201704A	Computer	9	Usama Zai	 
EE-201704D	Science	9	Haris	 
EE-201704E	Science	10	Haris	 
EE-201704F	Medical	11	Rumaisa	 
EE-201704G	Computer	10	Usama Zai	 
Name	Group	Class	Teacher	Actions

## BATCHES:

*By keeping all the information synchronized according to the batch name, total students in the batch, group of the batch, class and teacher assigned to the batch according to the group. All data is maintained cautiously.*



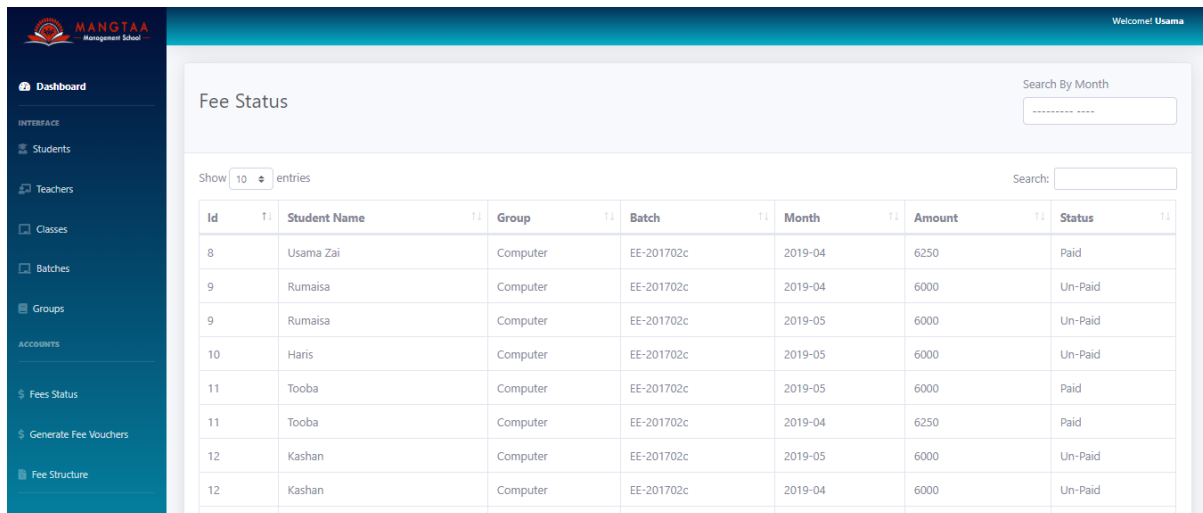
The screenshot shows the MANGTAA Management School dashboard. The sidebar on the left contains the following menu items: Dashboard, Students, Teachers, Classes, Batches, Groups, Fees Status, Generate Fee Vouchers, and Fee Structure. The main content area is titled 'Groups' and features a table with the following data:

Name	Actions
Computer	[Add] [Edit] [Delete]
Maths	[Add] [Edit] [Delete]
Medical	[Add] [Edit] [Delete]
Science	[Add] [Edit] [Delete]

Below the table, it says 'Showing 1 to 4 of 4 entries'. At the bottom right, there are pagination controls: 'Previous', '1' (selected), and 'Next'. A search bar is located at the top right of the table area.

# GROUPS:

*School facilitate students by providing facility of multiple subjects. These subjects are splitted into different groups and students of those subjects are divided into different groups. each subject has it's own specialized teachers. Here are the multiple groups, which can be added, updated and edited.*



Fee Status

Search By Month:

Show 10 entries Search:

Id	Student Name	Group	Batch	Month	Amount	Status
8	Usama Zai	Computer	EE-201702c	2019-04	6250	Paid
9	Rumaisa	Computer	EE-201702c	2019-04	6000	Un-Paid
9	Rumaisa	Computer	EE-201702c	2019-05	6000	Un-Paid
10	Haris	Computer	EE-201702c	2019-05	6000	Un-Paid
11	Tooba	Computer	EE-201702c	2019-05	6000	Paid
11	Tooba	Computer	EE-201702c	2019-04	6250	Paid
12	Kashan	Computer	EE-201702c	2019-05	6000	Un-Paid
12	Kashan	Computer	EE-201702c	2019-04	6000	Un-Paid

## FEE STATUS:

*Generating vouchers according to fee status of student is an essential part of administration.*

*For maintaining a status and having a convenient and effortless management, we split students into two categories of paid and un-paid students. so here it becomes accessible for us to only generate vouchers of un-paid students with legitimate amount.*

**MANGTAA**  
Management School

Welcome! Usama

### Generate Fee Vouchers

Select Month: April 2019    Issue Date: 01/04/2019    Due Date: 10/04/2019

Select Group: Computer    Select Batch: EE-201702c    Select Status: Un-Paid

Select Students:

- Haris
- Atif

Total Fee : 6000

If you want to select all student then click "Select All Student" Button

[Select All Students](#)    [Generate Voucher](#)

# GENERATE FEE VOUCHER:

*For generating the voucher select the month for which you want to, then select the issue and due date, select group of the student, batch and status. A fee voucher will be generated with an appropriate amount according to the group.*

**MANGTAA**  
Management School

Welcome! Usama

**Fee Structures** [Add Fees](#)

Show 10 entries Search:

Group	Fees	Actions
Computer	6000	<a href="#">Edit</a> <a href="#">Delete</a>
Medical	3000	<a href="#">Edit</a> <a href="#">Delete</a>
Science	4000	<a href="#">Edit</a> <a href="#">Delete</a>
Group	Fees	Actions

Showing 1 to 3 of 3 entries [Previous](#) [1](#) [Next](#)

**Dashboard**

**INTERFACE**

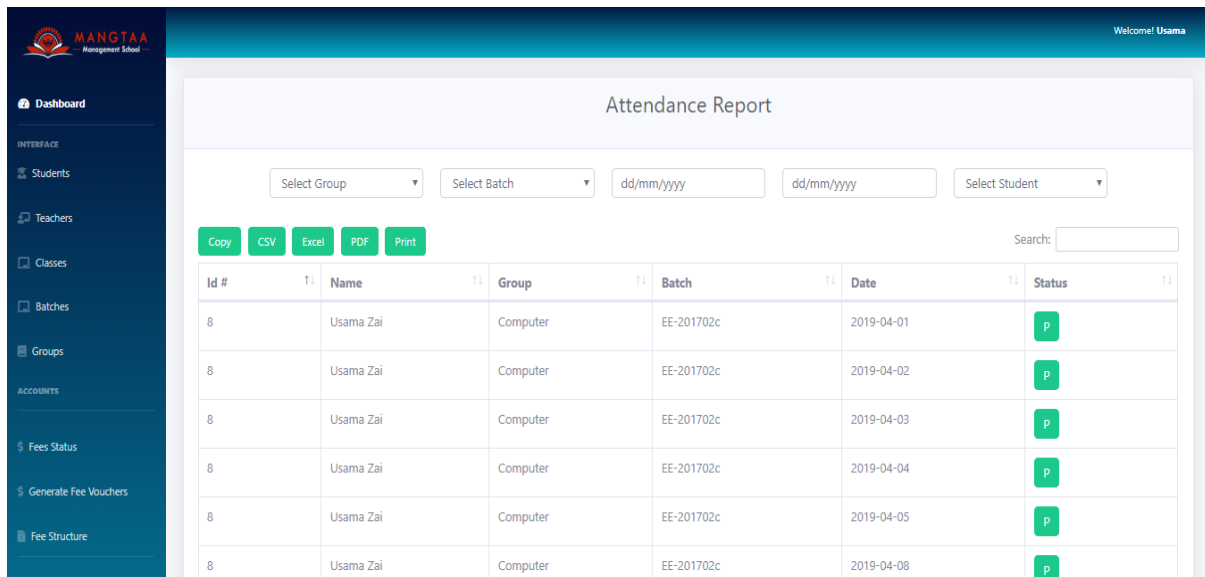
- Students
- Teachers
- Classes
- Batches
- Groups

**ACCOUNTS**

- Fees Status
- Generate Fee Vouchers
- Fee Structure

## FEE STRUCTURE:

*The Student fee structure is according to the group from which they belong.*



Attendance Report

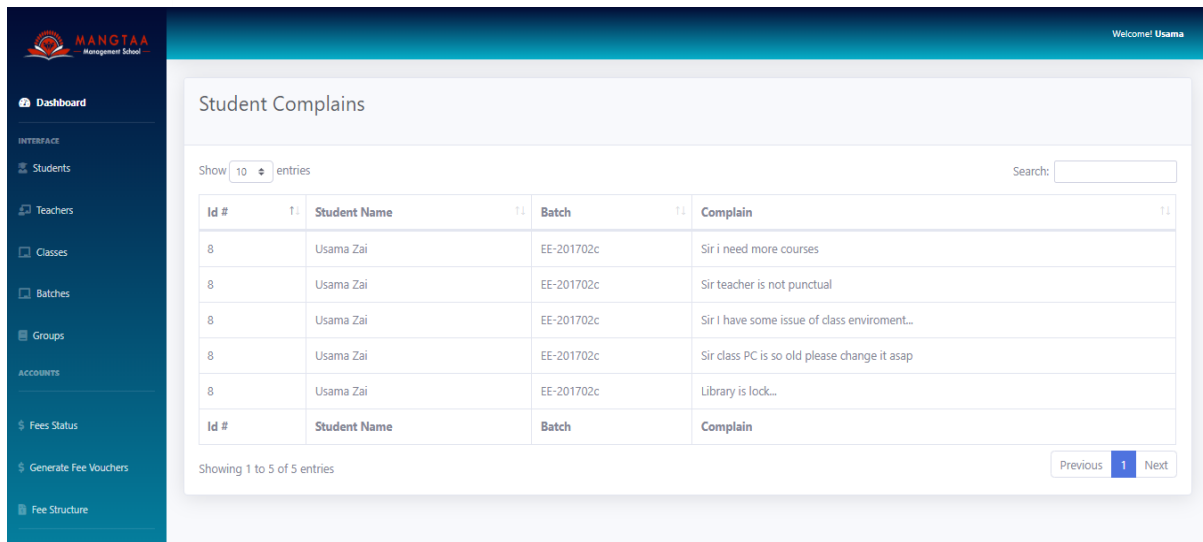
Select Group:  Select Batch:  dd/mm/yyyy dd/mm/yyyy Select Student:

Copy CSV Excel PDF Print Search:

Id #	Name	Group	Batch	Date	Status
8	Usama Zai	Computer	EE-201702c	2019-04-01	P
8	Usama Zai	Computer	EE-201702c	2019-04-02	P
8	Usama Zai	Computer	EE-201702c	2019-04-03	P
8	Usama Zai	Computer	EE-201702c	2019-04-04	P
8	Usama Zai	Computer	EE-201702c	2019-04-05	P
8	Usama Zai	Computer	EE-201702c	2019-04-08	P

## ATTENDANCE REPORT:

*Student attendance records are from one of the inestimable part of a good school management. For generating attendance report admin has to select the group of student from which he/she relates, then the batch assigned to the student and then the date from which he/she wants the attendance and after all the date to which he/she wants to generate the report and then the student name. By providing following imperative basic information about the student, the attendance will be generated.*



Student Complains

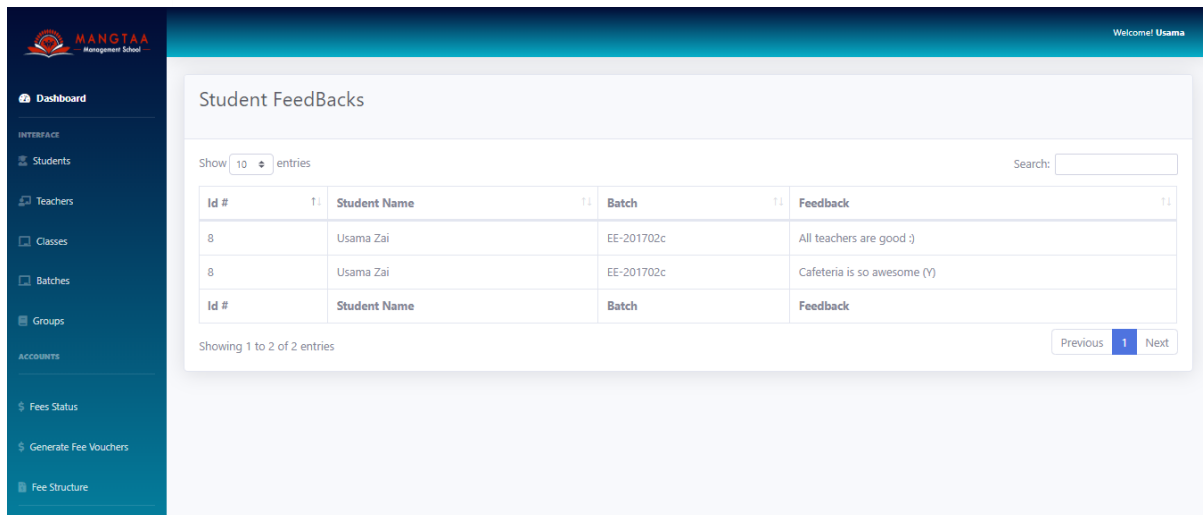
Show 10 entries Search:

Id #	Student Name	Batch	Complain
8	Usama Zai	EE-201702c	Sir i need more courses
8	Usama Zai	EE-201702c	Sir teacher is not punctual
8	Usama Zai	EE-201702c	Sir I have some issue of class enviroment...
8	Usama Zai	EE-201702c	Sir class PC is so old please change it asap
8	Usama Zai	EE-201702c	Library is lock...
Id #	Student Name	Batch	Complain

Showing 1 to 5 of 5 entries Previous 1 Next

# STUDENT COMPLAINS:

*Student can register their complains and issues and admin can see all their complains with name and batch code of the student.*



Student Feedbacks

Show 10 entries Search:

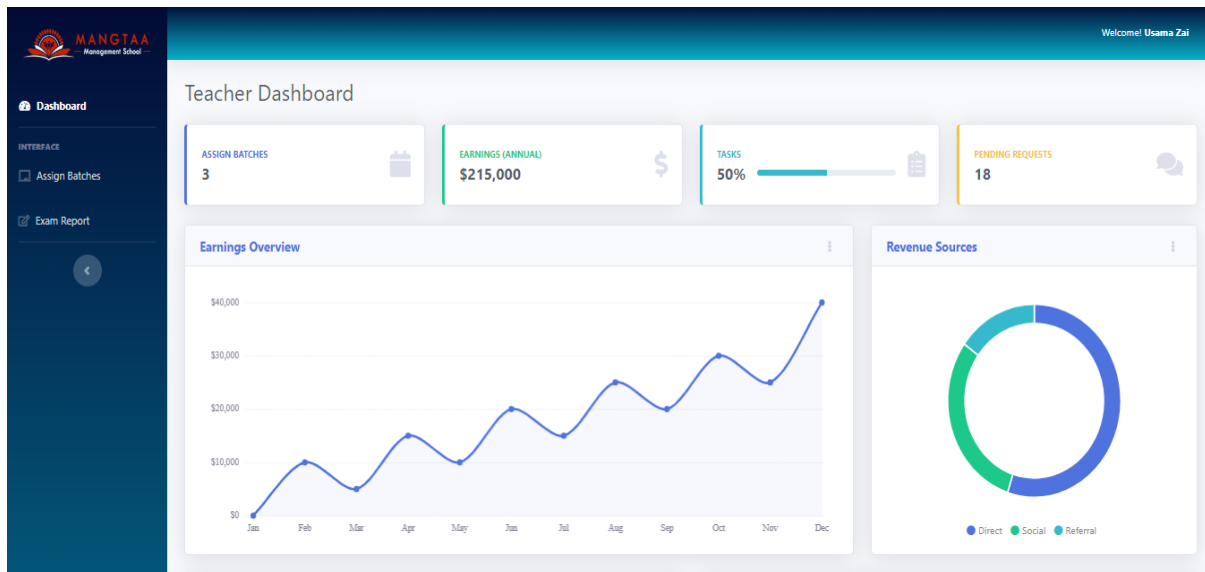
Id #	Student Name	Batch	Feedback
8	Usama Zai	EE-201702c	All teachers are good :)
8	Usama Zai	EE-201702c	Cafeteria is so awesome (Y)

Showing 1 to 2 of 2 entries

Previous 1 Next

# STUDENT FEEDBACKS:

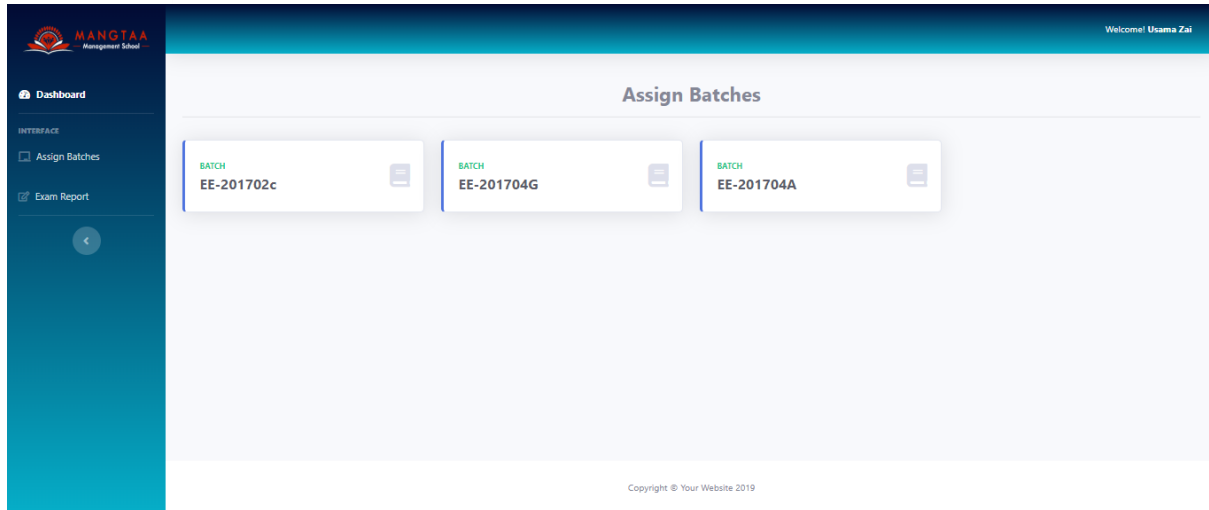
*Students can share their sentiments, opinions and can give feedback for betterment and advancement.*



# TEACHERS DASHBOARD:

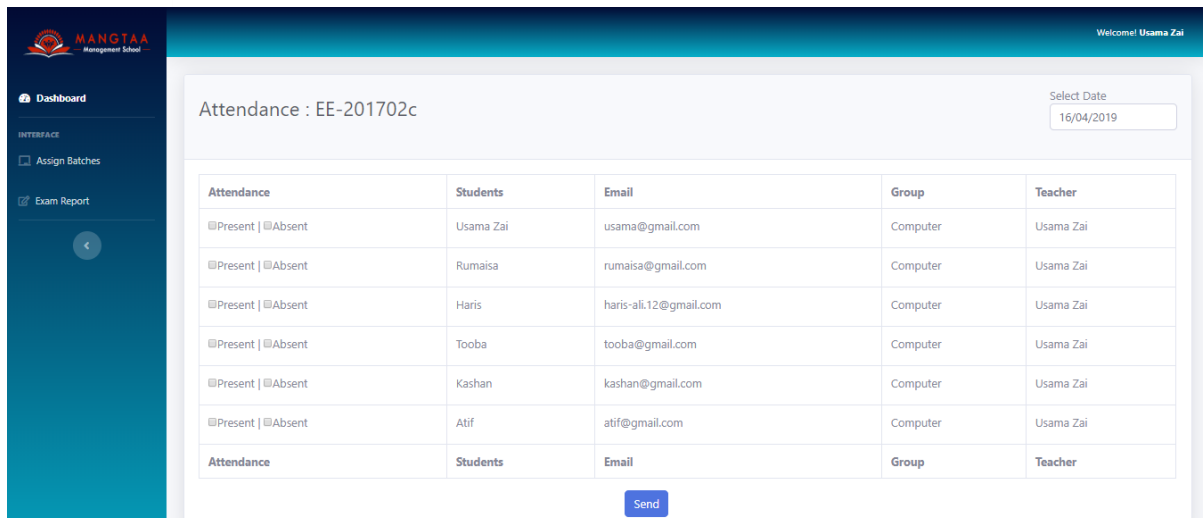
*Teachers can check their assigned Batches, Exam reports and attendance of students.*





## ASSIGNED BATCHES:

*Teachers can check their assigned batches in their dashboards.*



Attendance : EE-201702c

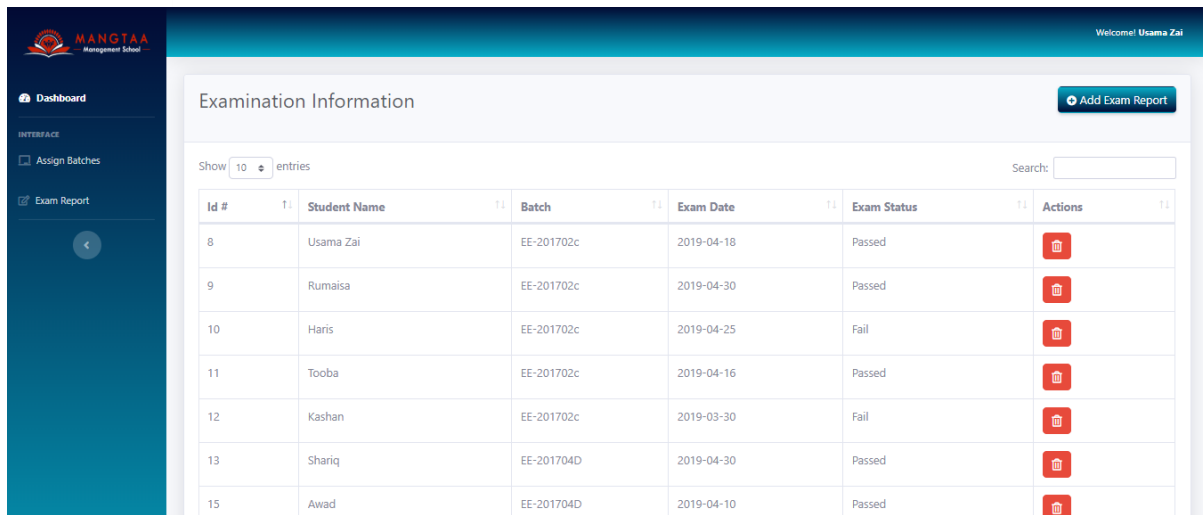
Select Date  
16/04/2019

Attendance	Students	Email	Group	Teacher
<input type="checkbox"/> Present   <input type="checkbox"/> Absent	Usama Zai	usama@gmail.com	Computer	Usama Zai
<input type="checkbox"/> Present   <input type="checkbox"/> Absent	Rumaisa	rumaisa@gmail.com	Computer	Usama Zai
<input type="checkbox"/> Present   <input type="checkbox"/> Absent	Haris	haris-ali.12@gmail.com	Computer	Usama Zai
<input type="checkbox"/> Present   <input type="checkbox"/> Absent	Tooba	tooba@gmail.com	Computer	Usama Zai
<input type="checkbox"/> Present   <input type="checkbox"/> Absent	Kashan	kashan@gmail.com	Computer	Usama Zai
<input type="checkbox"/> Present   <input type="checkbox"/> Absent	Atif	atif@gmail.com	Computer	Usama Zai
Attendance	Students	Email	Group	Teacher

Send

# STUDENT ATTENDANCE:

*Students attendance can be marked by the teacher according to their groups and batches. The attendance is marked according to batches..*



Examination Information

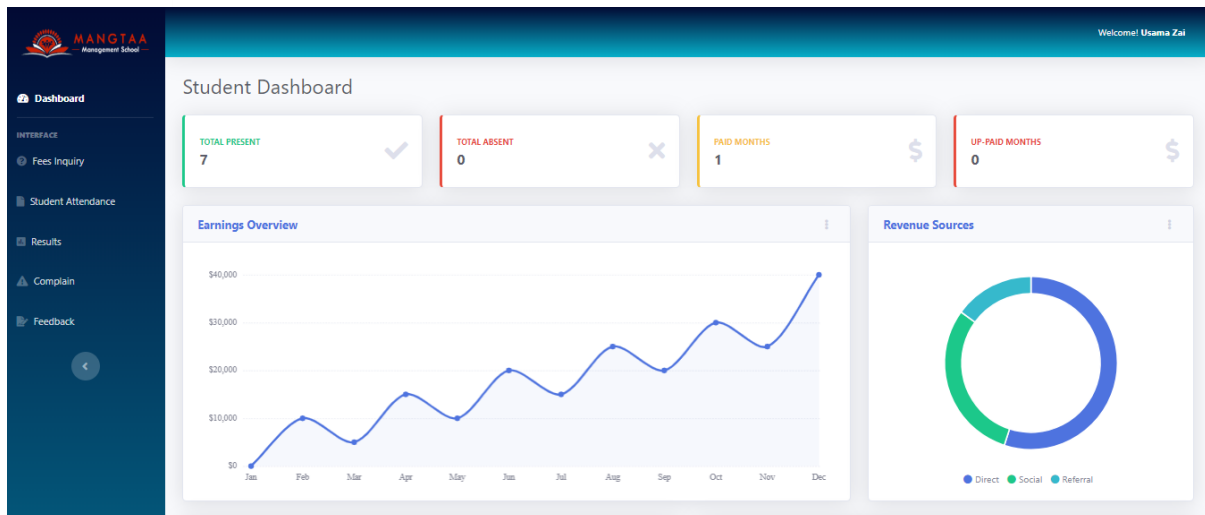
Show 10 entries

Search:

Id #	Student Name	Batch	Exam Date	Exam Status	Actions
8	Usama Zai	EE-201702c	2019-04-18	Passed	
9	Rumaisa	EE-201702c	2019-04-30	Passed	
10	Haris	EE-201702c	2019-04-25	Fail	
11	Tooba	EE-201702c	2019-04-16	Passed	
12	Kashan	EE-201702c	2019-03-30	Fail	
13	Shariq	EE-201704D	2019-04-30	Passed	
15	Awad	EE-201704D	2019-04-10	Passed	

## Exam Report:

*Teachers can check the result of the student and if the student fulfil the passing criteria, than will be promoted into the next class.*



# STUDENT DASHBOARD:

*Students can check their total attendance, paid and un-paid months dynamically by just logged in to their dashboard.*

Fee Inquiry

Show 10 entries

Search:

Student Name	Group	Batch	Month	Issue Date	Due Date	Amount	Status
Usama Zai	Computer	EE-201702c	2019-04	2019-04-01	2019-04-10	6250	Paid

Showing 1 to 1 of 1 entries

Previous 1 Next

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## FEE INQUIRY:

*Student can check their fee status, fee amount according to their groups, validity and expiry of their voucher.*

Student Attendance

Show 10 entries

Search:

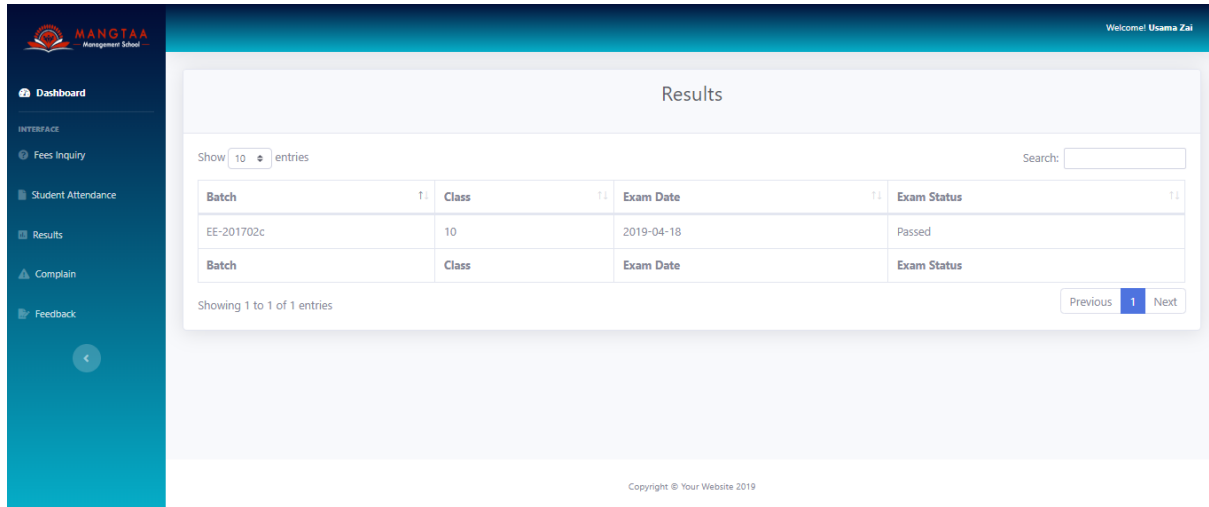
Group	Batch	Date	Status
Computer	EE-201702c	2019-04-01	P
Computer	EE-201702c	2019-04-02	P
Computer	EE-201702c	2019-04-03	P
Computer	EE-201702c	2019-04-04	P
Computer	EE-201702c	2019-04-05	P
Computer	EE-201702c	2019-04-08	P
Computer	EE-201702c	2019-04-14	P
Group	Batch	Date	Status

Showing 1 to 7 of 7 entries

Previous 1 Next

## ATTENDANCE INFORMATION:

*Student can get complete details about their attendance record. They can check their attendance according to their group, batch, and date.*



The screenshot shows a web application interface for MANGTAA Management School. The top navigation bar includes the school logo and a welcome message for 'Usama Zai'. The left sidebar contains a 'Dashboard' menu and an 'INTERFACE' section with links for 'Fees Inquiry', 'Student Attendance', 'Results', 'Complain', and 'Feedback'. The main content area is titled 'Results' and displays a table of examination results. The table has four columns: 'Batch', 'Class', 'Exam Date', and 'Exam Status'. A single entry is shown for Batch 'EE-201702c', Class '10', Exam Date '2019-04-18', and Exam Status 'Passed'. The interface also includes a search bar, a 'Showing 1 to 1 of 1 entries' message, and pagination controls.

Batch	Class	Exam Date	Exam Status
EE-201702c	10	2019-04-18	Passed

# EXAMINATION RESULTS:

*Students can get complete details about their examination and results by checking their result and get details about their exam date and exam status.*

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MANGTAA Management School

Welcome! Usama Zai

Dashboard

INTERFACE

- Fees Inquiry
- Student Attendance
- Results
- Complain
- Feedback

Complain Box

Write your complains here & Send it to the Principal

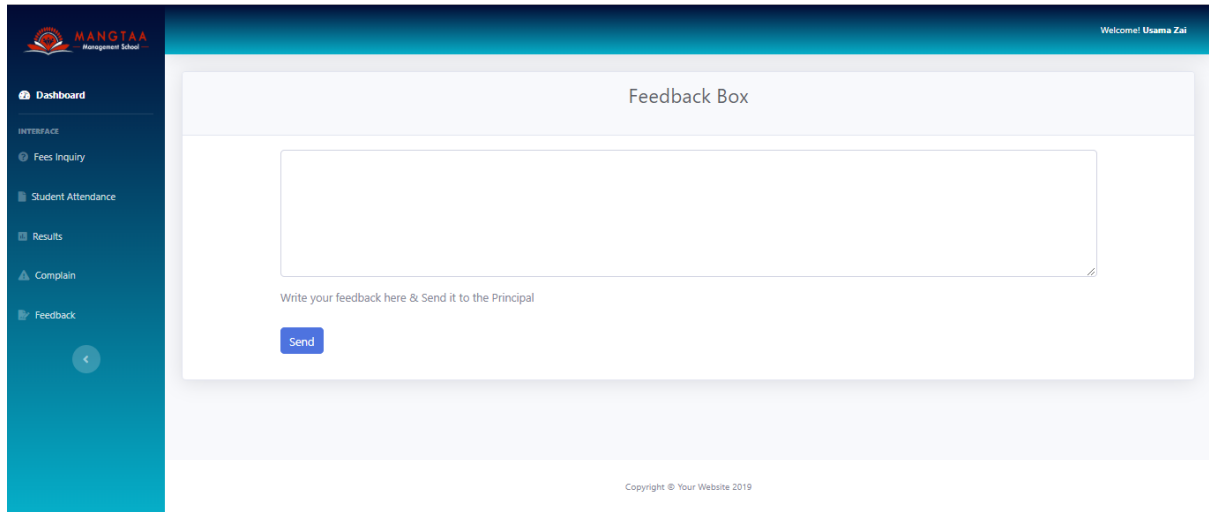
Send

Copyright © Your Website 2019

## STUDENT COMPLAINS:

*Students can register their complains and problems regarding school, management and other issues to the admin. Admin can see all those complains.*

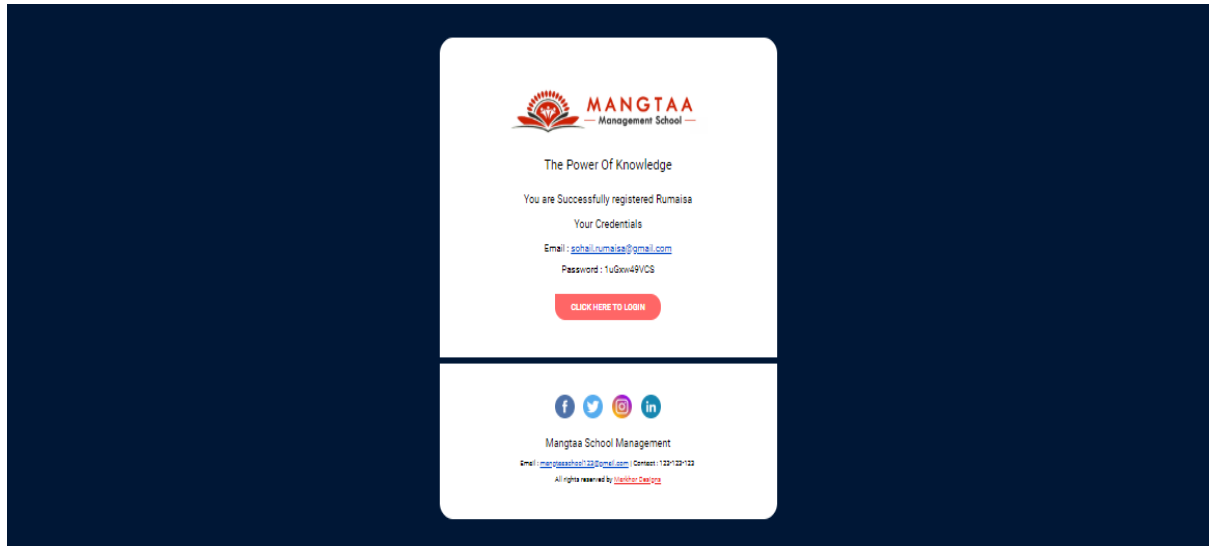




The screenshot shows a web application interface for a school management system. On the left is a dark blue sidebar with the 'MANGTAA' logo and a list of menu items: Dashboard, Fees Inquiry, Student Attendance, Results, Complain, and Feedback. The main content area has a light blue header with the text 'Feedback Box'. Below this is a large white text input field. Under the input field, there is a prompt 'Write your feedback here & Send it to the Principal' and a blue 'Send' button. The top right corner of the page displays 'Welcome! Usama Zai'. At the bottom center, there is a small copyright notice: 'Copyright © Your Website 2019'.


## STUDENT FEEDBACK:

*Students can share their sentiments, opinions and can give feedback for betterment and advancement.*



## EMAIL TEMPLATE:

*When a Student and Teacher will be added an email will be  
shouted on their email address.*



**MANGTAA**  
Management School

FEE VOUCHER (GENERAL)  
A/C: 0912381923  
Month : 2019-04

Status : Paid

Receipt # 8

Due Date : 2019-04-10

Name : Usama Zai			Invoice Number : 1546
S. No		✓	Amount
1.	Registration Fee		0
2.	Tuition Fee		6250
3.	Arrears		0
4.	Certification Fee		0
5.	OV		0
6.	Others		0
7.	<b>Total</b>		<b>6250</b>
8.	<b>Minimum Payment</b>		<b>250</b>
9.	<b>After Due Date</b>		<b>6500</b>

Note : EE-201702c

Deposit the amount using this

1. Fee is **NON-REFUNDABLE & NON-TRANSFERABLE**
2. Late Payment will apply after **Due Date**
3. Voucher valid untile \_\_\_\_\_
4. Terms & Conditions Apply

Depositor's Name/Phone : \_\_\_\_\_

Issuing Authority : \_\_\_\_\_

Pay Now

Print Now

Activate Windows

Go to Settings to activate Windows.

## FEE VOUCHER:

*The students can get their monthly fee voucher by logging in their account and get details about their fee status and Students can easily pay and print their vouchers.*

# Project Plan

Task	Duration	Person
ERD diagram	2 days	Usama / Rumaisa
Backend Template Implementing	20 Minutes	Usama
Frontend Template Implementing	20 Minutes	Rumaisa
Code on Server Side	18 days	Usama / Rumaisa
Code on Front End	2 days	Rumaisa
Project Testing	2 days	Usama / Rumaisa

# Unit Testing Check List

Unit	Error	Check	Status
Login	Invalid Email & Password	Procced to Dashboard	Done
Email Address	Invalid format like e.g(Usama.gmail.com) is not acceptable	Valid Format like e.g(usama@gmail.com)	Done
Password	Invalid format not acceptable e.g it must include alphabates & number	Valid Format like e.g(usama_123)	Done

## Task Sheet

Task	Person	Status
ERD Diagram	Usama/Rumaisa	Done
Layout & Design	Usama/Rumaisa	Done
Admin Dashboard	Usama	Done
Teacher Dashboard	Rumaisa	Done
Student Dashboard	Rumaisa	Done
Login	Usama/Rumaisa	Done
Links Setting	Usama/Rumaisa	Done

## **Final Check List**

<u><b>S-No</b></u>	<u><b>Task</b></u>	<u><b>Members Name</b></u>	<u><b>Status</b></u>
1	Analysis	Usama/Rumaisa	Done
2	Layout/Design	Usama/Rumaisa	Done
3	Daily Check	Usama/Rumaisa	Done
4	Development	Usama/Rumaisa	Done
5	Finalization	Usama/Rumaisa	Done
6	Documentation	Usama/Rumaisa	Done
7	Final Approval	Usama/Rumaisa	Done