LEARNING MANAGEMENT SYSTEM FOR MCS

(SEMESTER PROJECT DOCUMENTATION)

Team Members:

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- PC Ayesha Saleem (BESE-24C)

Technologies used:

1. Frontend:

- HTML 5
- CSS
- Bootstrap 4 (CSS Framework)
- Javascript
- Jquery
- Popper (positioning engine)
- Calander.js (calendar plugin)
- Chart.js (data visualization plugin)

2. Database:

MySQL

3. Backend:

- Node.js (run time environment)
- Express
- Express handlebars (templating engine)

Software used:

1. For Coding:

Visual Studio Code

Sublime text

2. For Database:

XAMPP

3. Hosting:

• Google Chrome localhost

Software Required:

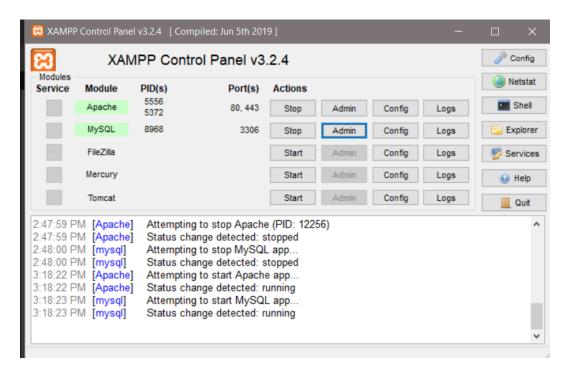
Software for running the code

- XAMPP
- MySql
- Any browser

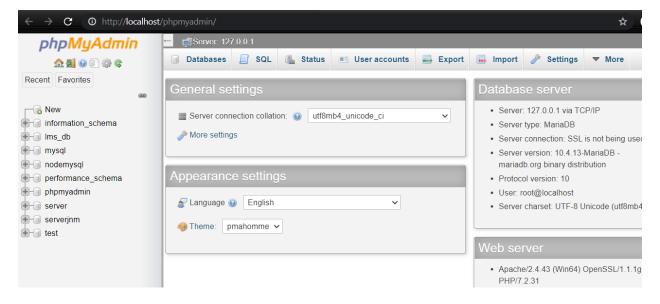
How to run the Code:

1. Setup:

- Install XAMPP and MySQL
- Once installed, open the XAMPP control panel and start Apache and MySQL actions.
 - (Apache and MySql modules will turn green as shown below)
- Then click on admin button marked in the picture below.



 The admin will open phpMyAdmin in localhost of your default browser. (as shown below)



Click on new and type the name of database as "lms_db".

Databases

Character set of the file:

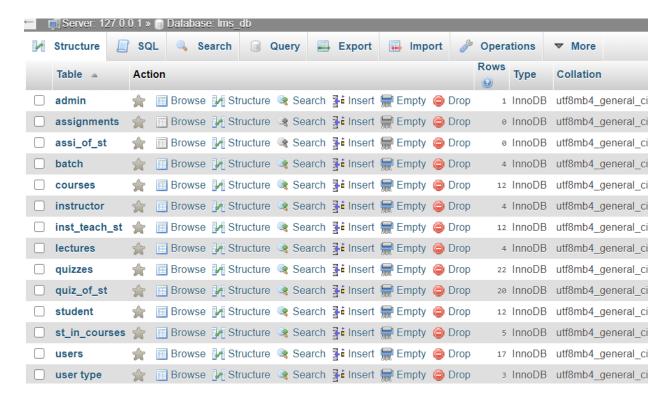
utf-8



- Now click on create and a database will be created and created database will be opened
- Choose insert option and click on choose file option



• Choose the lms db.sql file in the folder and click on go. It will take some time to load the database. (Following db will be created.)

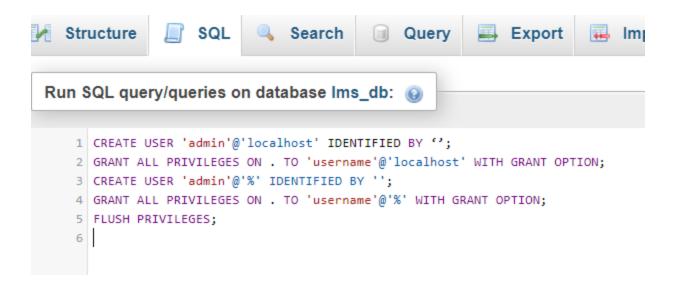


 Now click in Sql option and copy the following code to create a user with all kind of privileges and click on go.

CREATE USER 'admin'@'localhost' IDENTIFIED BY ";
GRANT ALL PRIVILEGES ON . TO 'username'@'localhost' WITH GRANT
OPTION;

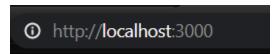
CREATE USER 'admin'@'%' IDENTIFIED BY '';
GRANT ALL PRIVILEGES ON . TO 'username'@'%' WITH GRANT
OPTION;

FLUSH PRIVILEGES;



- Now open your code editor (preferred vs code) and in the terminal write "node app.js" (if you are using any other editor first change your directory to specific folder)
- Following thing will be displayed in the console which shows the app is running in port 3000 and is connected to database

Now open the browser at local host 3000



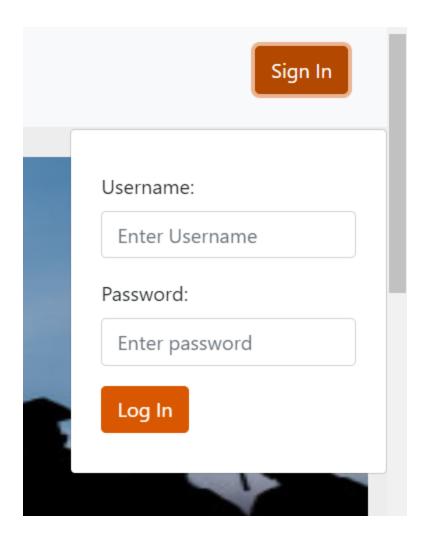
• Following landing page will be loaded







Now click on sign in following dropdown menu will open up.
 Add any credential from the db. (correct credentials will open up dashboard of specific user type wrong credentials will redirect page to landing page.)



Project Description:

1. Introduction:

The LMS Web application is a management app for students and teachers.

- Supports 3 modules
- Is fully responsive (can adjust and run on different screen width)
- Is Dynamic

2. Modules:

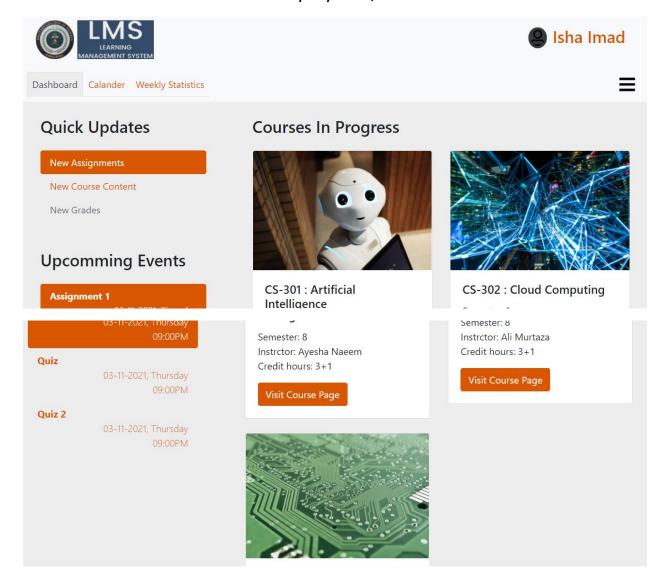
• Instructor module

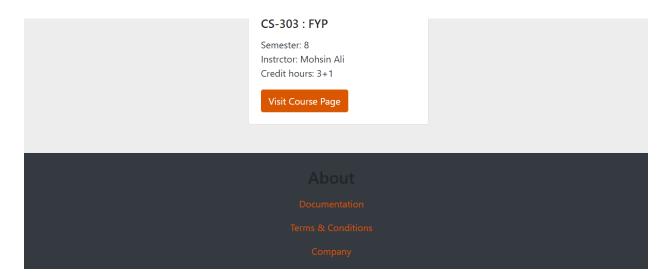
- Student module
- Teacher module

3. Student Functionality:

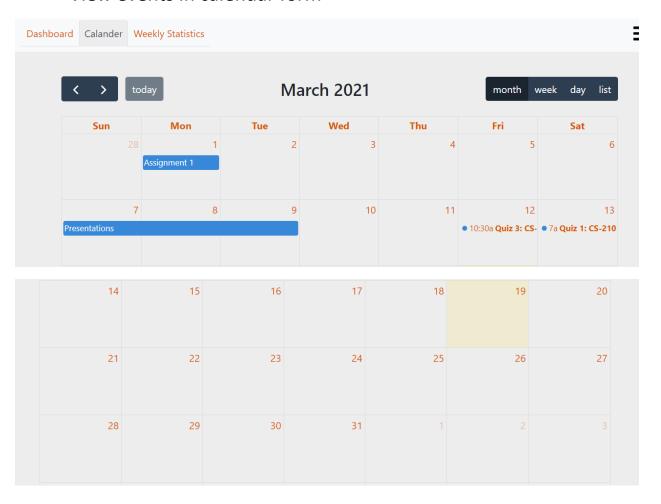
Students can

• View dashboard the displays his/her current enrolled course

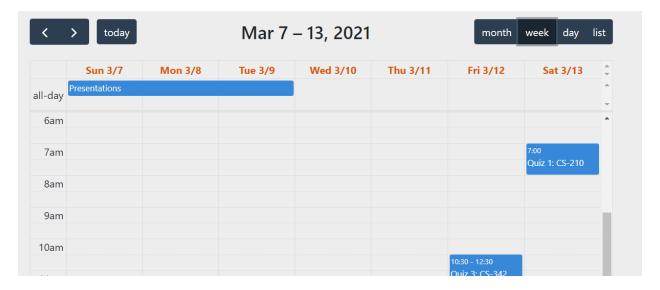




• View events in calendar form



• Calander can be in week view



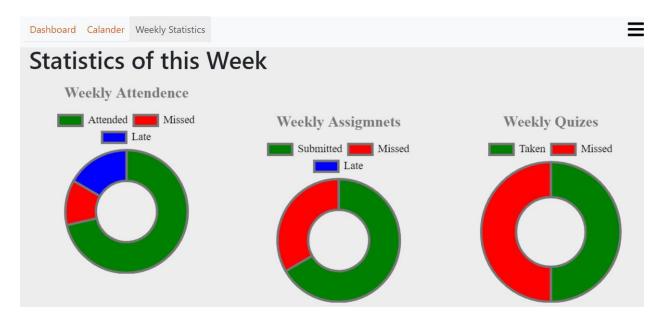
• It can be in day view



• It can be in list view



Student can view his weekly statistics



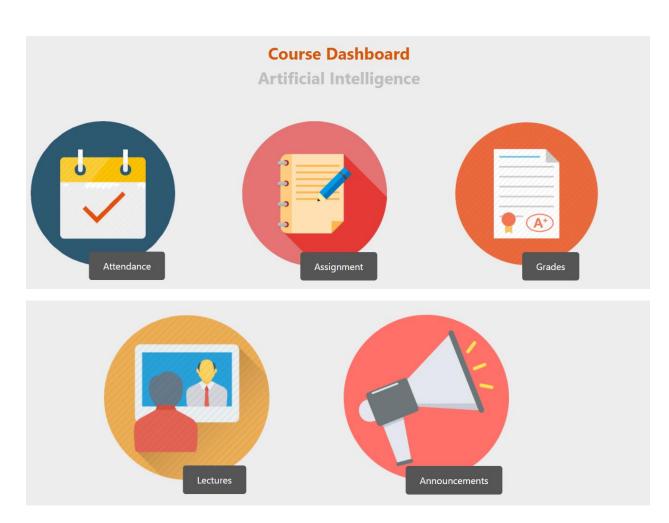
• View can their enrolled courses in list form

(Students can visit courses from both dashboard and my courses pages)

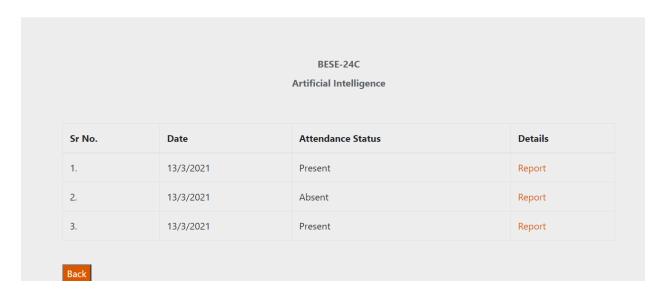
All enrolled courses

Course Name	Course Code	Semester	Instructor	Status	
Artifical Intellegence	SE-301	8th	Ayesha Naeem	In Progress	Visit Course
Cloud Computing	SE-302	8th	Ali Murtaza	In Progress	Visit Course
FYP	SE-303	8th	Moahsin Ali	In Progress	Visit Course

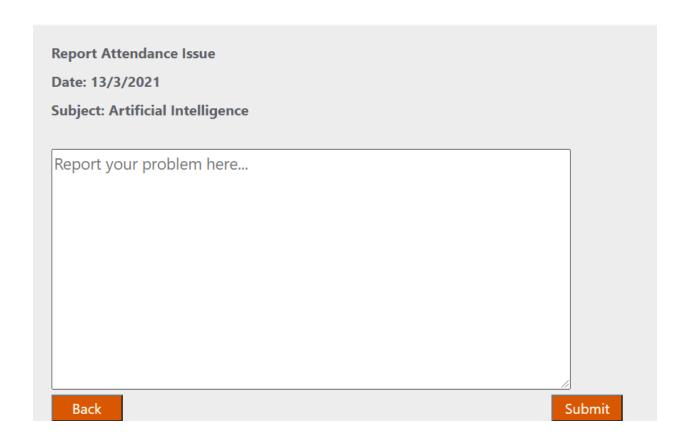
Following course dashboard opens on clicking visiting course



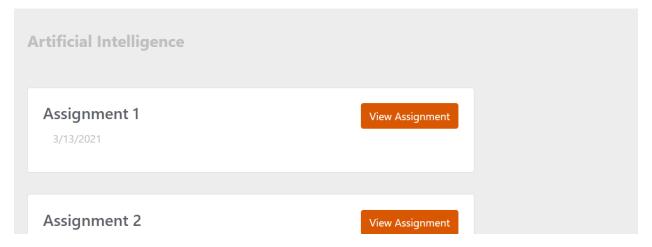
• Student can view his course attendance



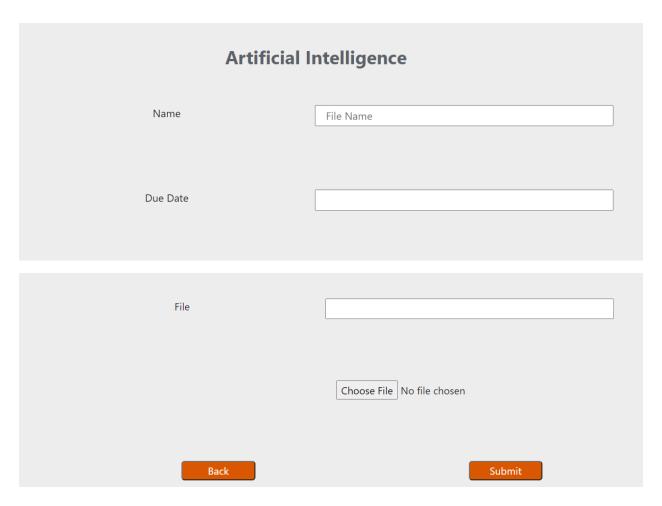
• Student can report any issue in attendance.



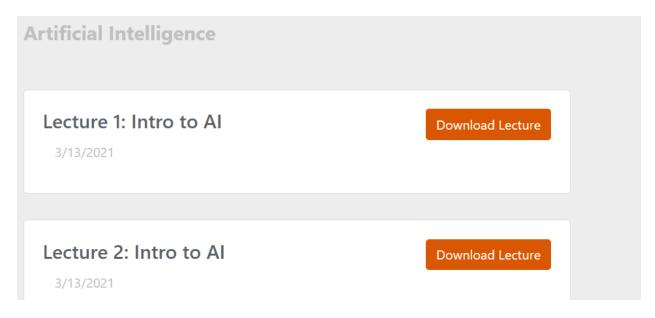
• Students can view his assignments



Students can submit the assignment



Students can view his course lectures



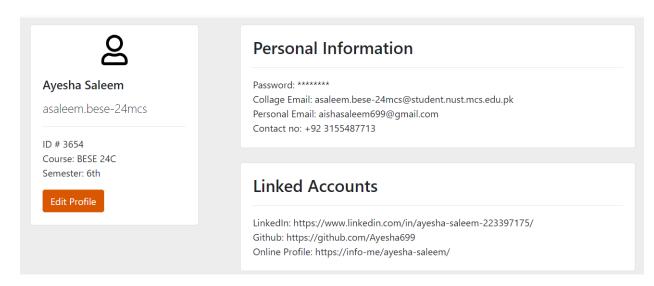
• Students can view course grades

BESE-24C **Artificial Intelligence** Sr No. Date Task **Obtained Marks Total Marks Class Average** Assignment 1 13/3/2021 10 13/3/2021 Quiz 1 3. 13/3/2021 Project 15 20 13 Back

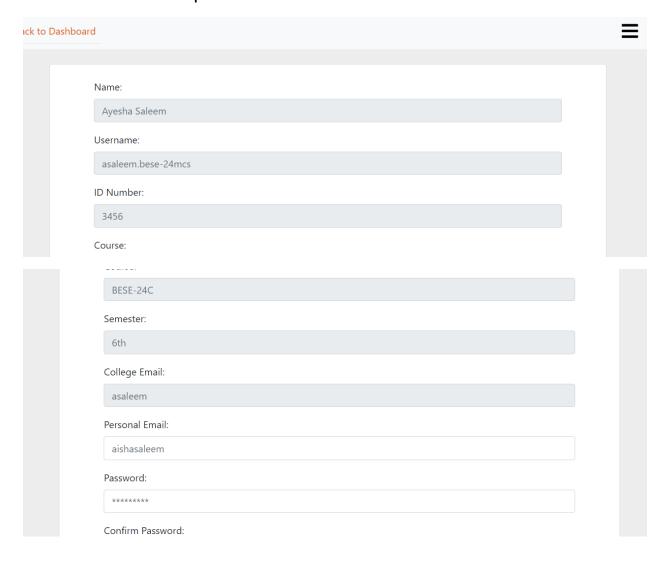
• Students can view any announcements in the course



• Students can visit their profile

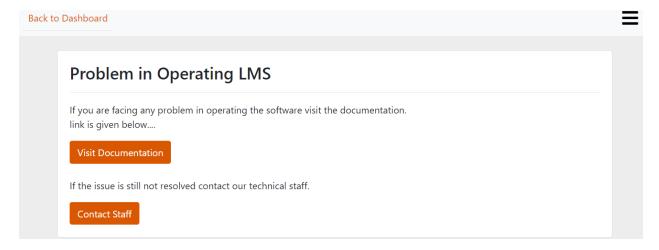


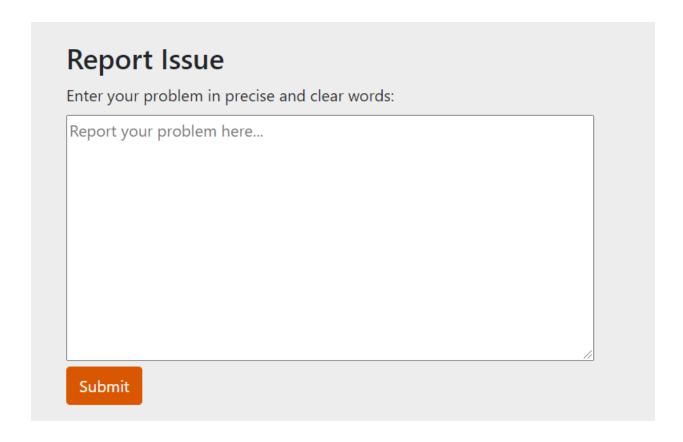
• Can edit their profile





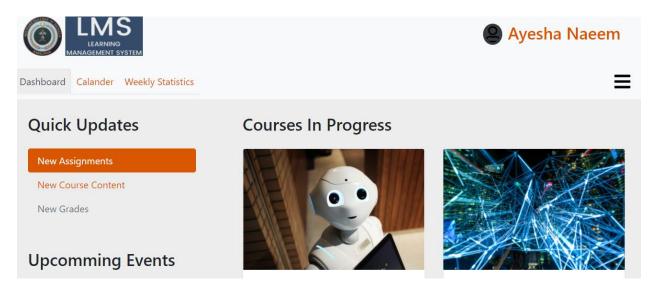
• In case of issue students can visit help center where they can read documentation and contact admin.

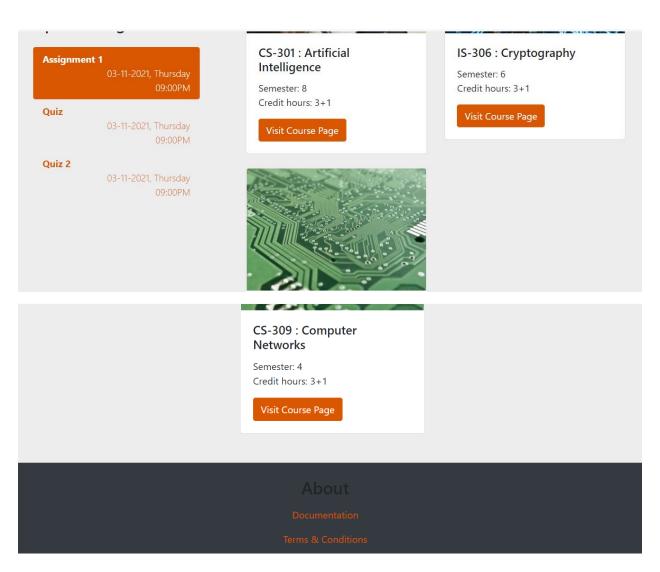




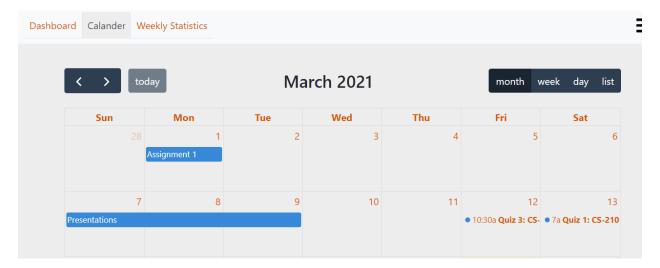
4. Teacher's Functionality:

 Teachers can login similarly as students and can vie their courses in the dashboard



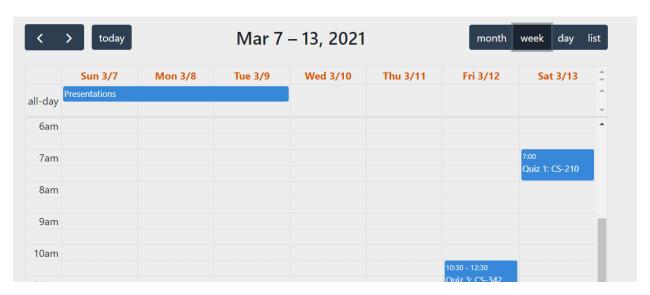


Teachers can view events in calendar form





• Calendar can be in week view



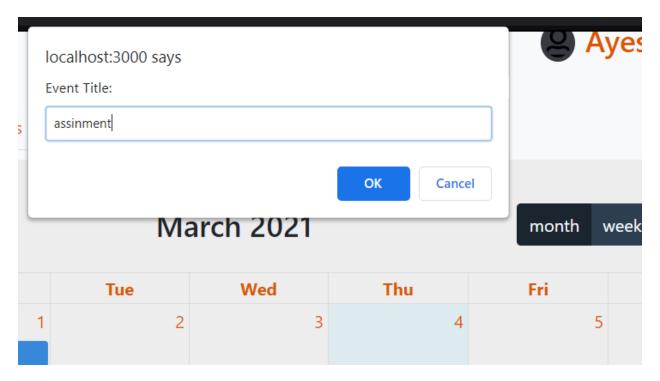
• It can be in day view

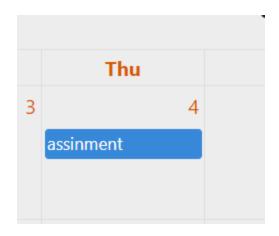


• It can be in list view

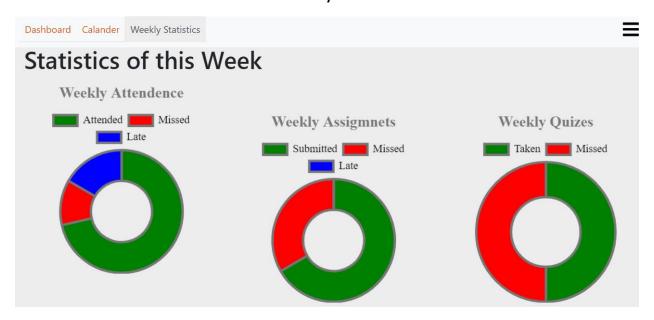


Teachers can add event on clicking on any date on the calander
 And is added in the db and calander





Teachers can view his weekly statistics

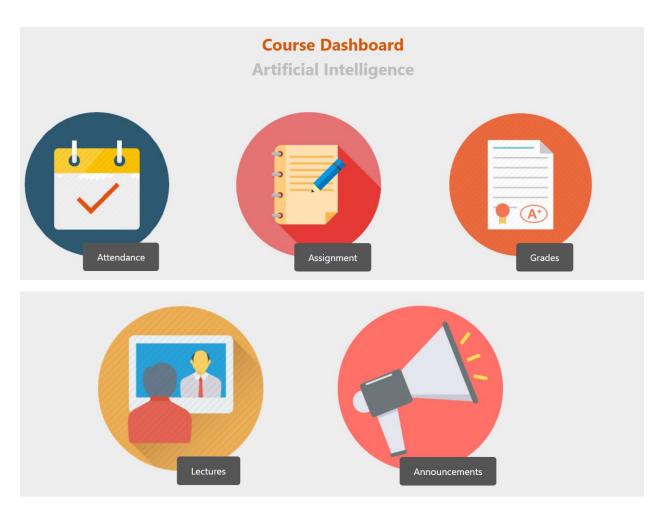


View can their enrolled courses in list form

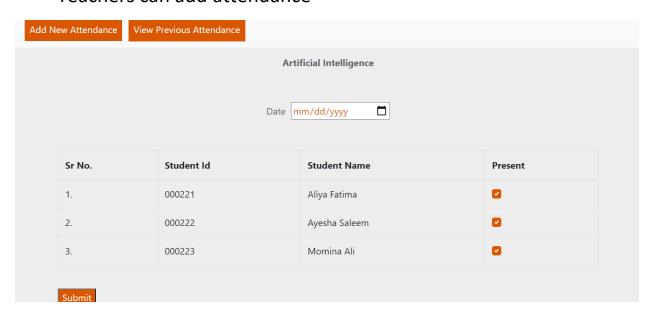
(Teachers can visit courses from both dashboard and my courses pages)

		All enrolle	d courses		
Course Name	Course Code	Semester	Status	Total Students	
Artifical Intellegence	SE-300	6th	In Progress	34	Visit Course
Artifical Intellegence	SE-300	6th	In Progress	34	Visit Course
A -100 - 1 + 1 + 11		2.1		2.	

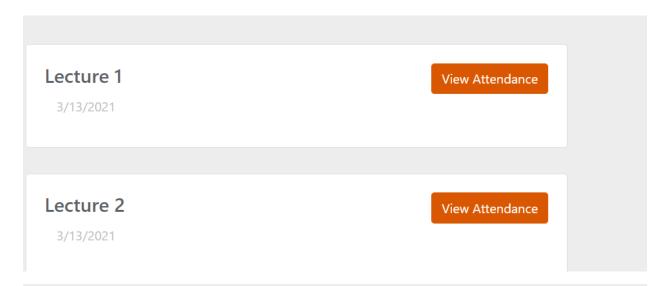
Following course dashboard opens on clicking visiting course



• Teachers can add attendance

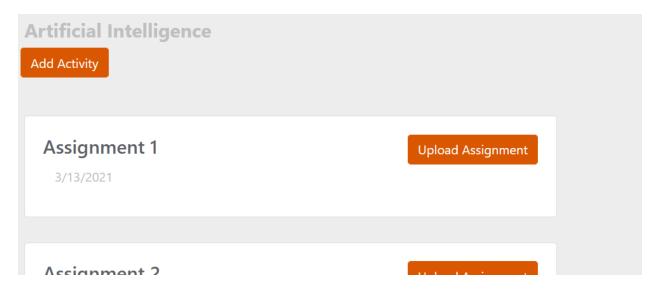


They can also view previous attendance



Artificial Intelligence				
Sr No.	Student Id	Student Name	Attendance Status	
1.	000221	Aliya Fatima	Present	
2.	000222	Ayesha Saleem	Present	
3.	000223	Momina Ali	Absent	

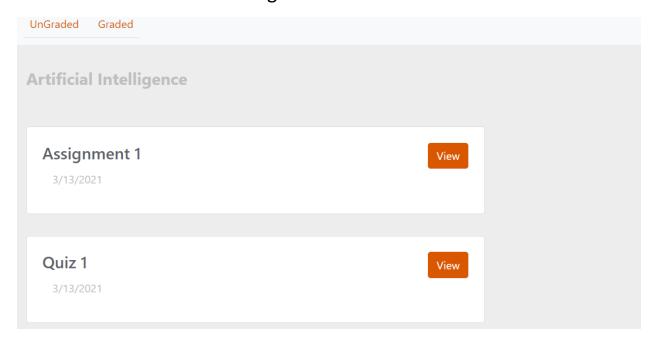
• Teachers can upload assignments



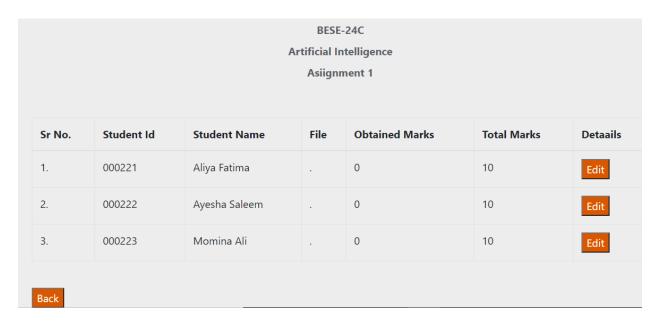
Artificial Intelligence

Name	File Name	
Due Date	mm/dd/yyyy:	
Select File	Choose File No file chosen	

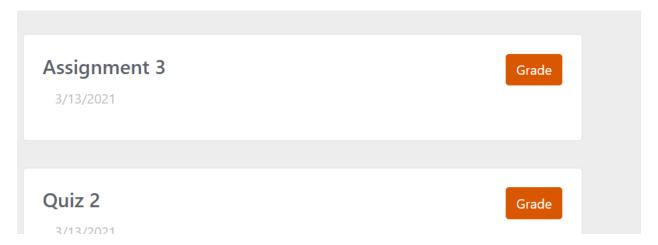
Can view submitted assignments



Can view graded ones



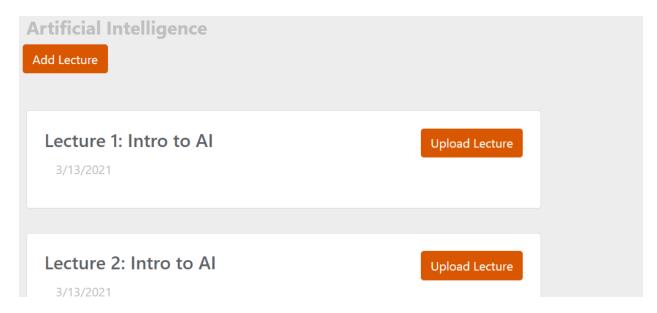
Can view ungraded ones



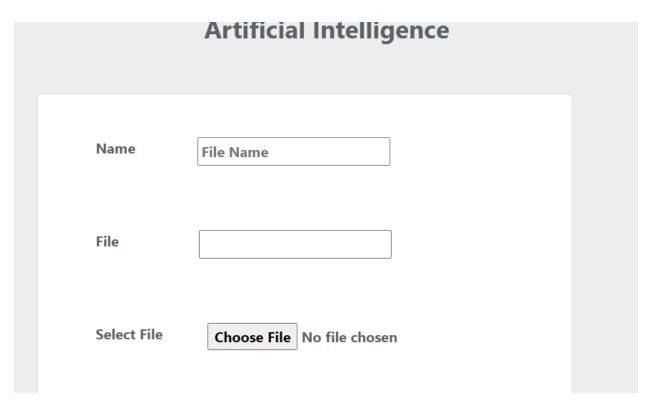
And add grades

			Asiignm	ent 1	
Sr No.	Student Id	Student Name	File	Obtained Marks	Total Marks
1.	000221	Aliya Fatima			10
2.	000222	Ayesha Saleem			10
3.	000223	Momina Ali			10

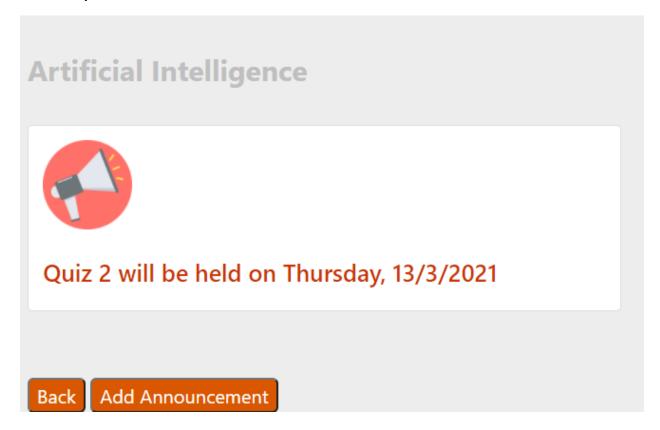
Can view lectures



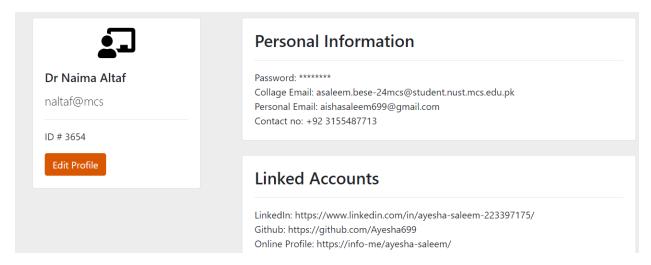
And upload new lectures



They can view and add annoncements

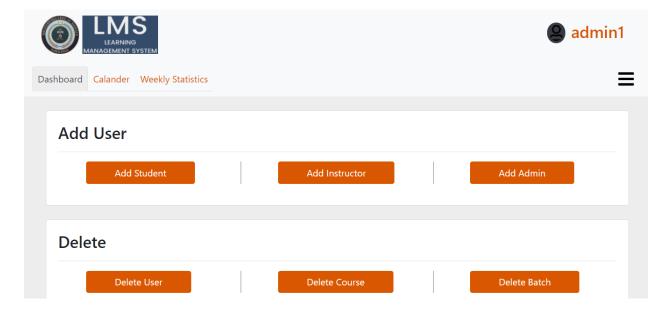


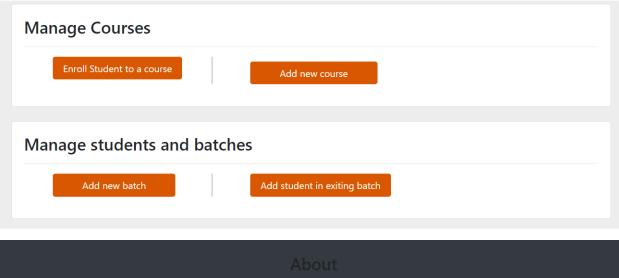
 The rest of the features are same including viewing profile, editing profile and asking for help.

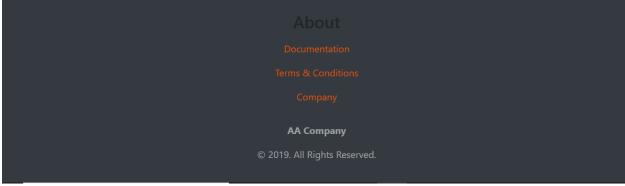


5. Admin's Functionality:

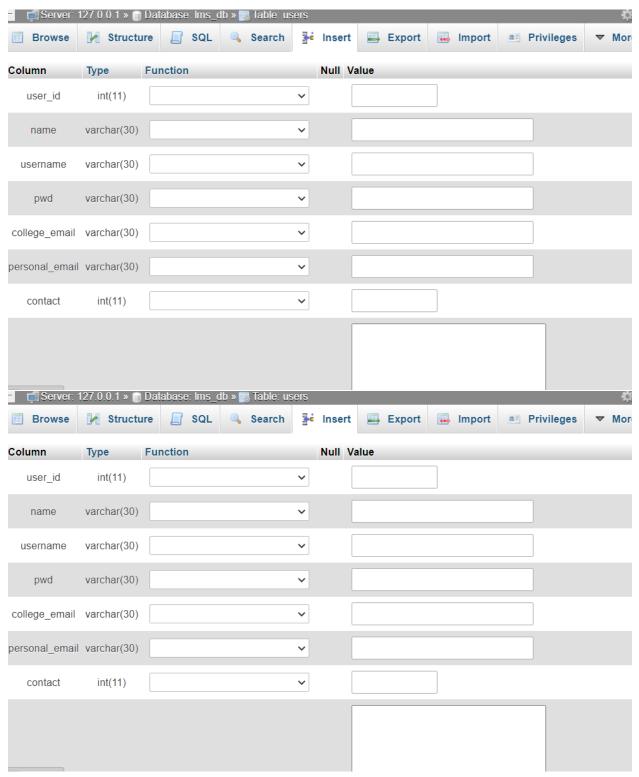
Admin can view all the features on dashboard



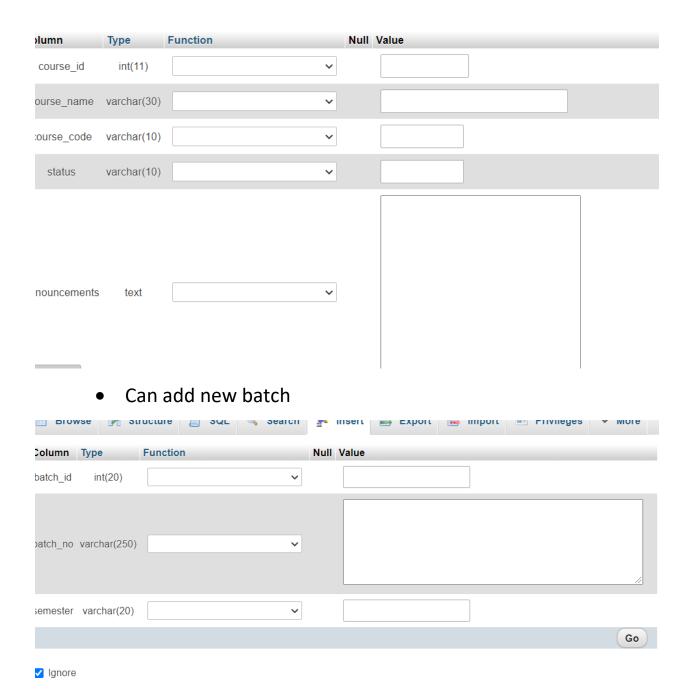




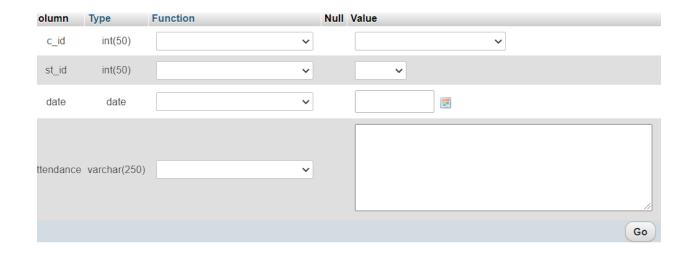
Admin can add users (Students, Teachers, or new admin)



• Admin can add course



• Can enroll batch to course



• Can delete entities

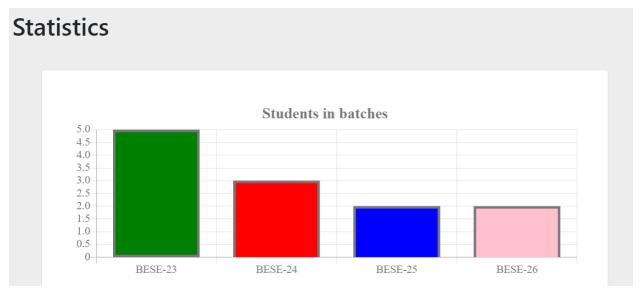
Options



• Admin can add students in a batch



Admin can view statistics





 Rest of the options are same as mentioned in student and teacher like viewing and updating courses.

6. The Database:

• The Database has 14 tables

