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Chalkboard - University Database System

This is a university database system that currently supports 4 users: Admin, Professor and Student. Every user has a set of views that they can see to control what each user is permitted to do using the system.

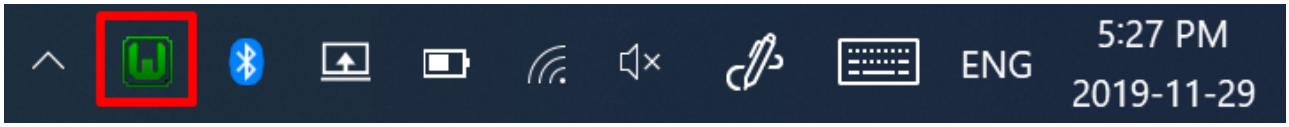
How to Use:

Brief Explanation:

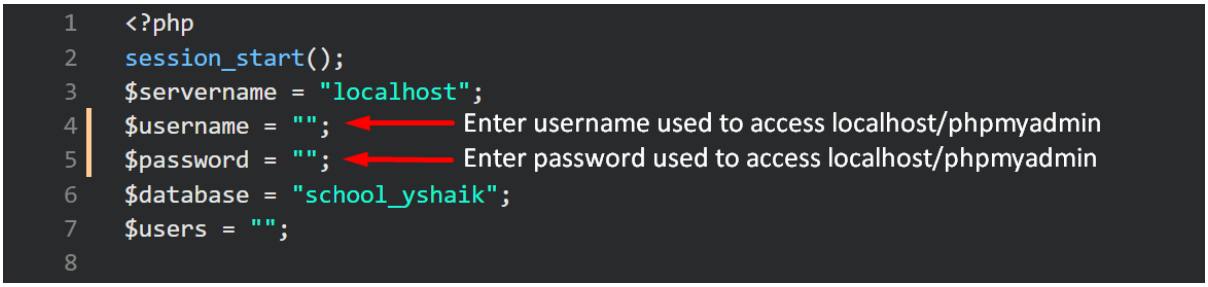
This system can be implemented using localhost with the assistance of WAMP (Windows, Apache, MySQL, and PHP/Python/Perl). Once WAMP is running and the **connection.php, app.py, data.py** file is modified with correct PhpMyAdmin username and password, localhost can be accessed and the system can be used.

Steps:

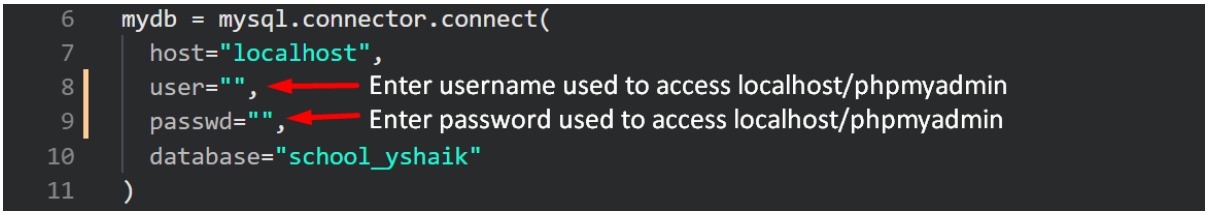
1. Install WAMP from HERE.
2. Launch Wampserver64 then go to the system icon tray at the bottom right to make sure all 3 services are running (Green WAMP Icon):



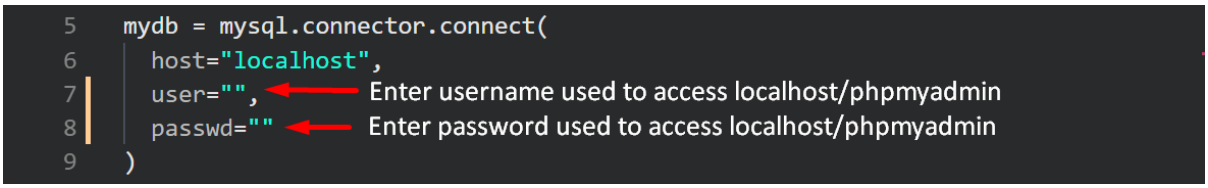
3. Go to "C:\wamp64\www" and place the project folder (**data-project / data-project** (The main directory is called data-project and sub-directory has the same name. You must put the sub-directory in the "www" directory)) in the "www" directory.
4. PhpMyAdmin can be accessed by going to http://localhost/phpmyadmin/.
5. By Default, the login for phpMyAdmin is:
   - Username: "*root*"
   - Password: " " (By default, no password for root user)
6. Import database file: school_yshaik.sql (*student table, professor table and courses table must be imported into database first due to foreign keys and these three tables hold the root of most foreign keys*).
7. ***IMPORTANT: Go to the data-project directory and open the following files and make the edits as shown in the screenshots below:***
   - connection.php



- app.py



- data.py



8. Once the database is imported into phpMyAdmin successfully and the project folder is in the "www" directory, go to login.php.
9. If the login page has successfully loaded, go to Available Usernames and Passwords to view the credentials needed to login.

Instructions for Weather Application

To only view weather application functionality (No database implementation) Visit: https://trusted-weather.herokuapp.com/?search=los+angeles

To run server localy (with database implementation):

- Open command prompt
- Make sure you have python3 installed
- Navigate to project folder: "cd directory_here"
- Make sure you are in the same directory as app.py
- Install dependencies:
  - pip install requests
  - pip install gunicorn
  - pip install flask
- run server using: "flask run"

Instructions for API Creation

- Open command prompt
- make sure you have python3 installed
- Navigate to project folder
- make sure you are in the same directory as data.py
- Install dependencies
  - pip install mysql.connector
- Run program using "py data.py"
- file with .json extension can now be found in directory with database information in JSON format

Views

Some view have been modified slightly from the views presented in Phase II to meet the functionality

1. Grades of the student currectly logged in:

Student Number	Course Name	Grade
40000002	Advanced Algorithms	90%

2. Grades of students that have over 80% but are not enrolled in Engineering:

Student grades over 80% that are not in engineering

Student Name	Grade
Harry Potter	90
Hermione Granger	100
Dixie johnson	87

3. Reviews of any professor that the logged in student has submitted:

Student Ratings for Professors

Student Number	Rating	Prof Number	CRN
40000002	4	10000001	90909
40000002	5	10000003	76543

4. Courses of the student that is currently logged in:

Course Name	CRN	Professor Name
Advanced Algorithms	90909	Albus Dumbledore

5. Grades of the students that are enrolled in Engineering:

Students Grades in engineering

Student Number	CRN	Grade	Student Name
40000002	90909	90	Harry Potter
40000003	90909	100	Hermione Granger

6. Full Join - Student information along with their cumulative grade:

Student Information with grades

Student Number	Student Name	Grade
40000000	Boobly Pop	76
40000001	Sohaib Whall	23
40000002	Harry Potter	90
40000003	Hermione Granger	100
40000004	Dixie johnson	87
40000005	Joogly Boogly	67

7. Any professor that has a rating of 3:

Professors with a Rating of 3

Professor Name
Filius Flitwick
Pomona Sprout

8. Student information and grade of those students that have a higher grade than the average grade:

Student Information of those whose grades are greater than the average grade

Grade	Student Name
76	Boobly Pop
90	Harry Potter
100	Hermione Granger
87	Dixie johnson

9. Student number of those students whose grades are less than 50%:

Student Number of students whose grades are less than 50%

Student Number
40000001

10. Student information of those students that are enrolled in Engineering:

Student Information of those that are in Engineering

Student Name	Student Number
Harry Potter	40000002
Hermione Granger	40000003

11. Review Submission Form:

Available Usernames/Passwords to log into Chalkboard

Student:

- Username: 40000000, Password: testing0
- Username: 40000001, Password: testing0
- Username: 40000002, Password: testing0
- Username: 40000003, Password: testing0
- Username: 40000004, Password: testing0
- Username: 40000005, Password: testing0

Professor:

- Username: 10000000, Password: prof0
- Username: 10000001, Password: prof1
- Username: 10000002, Password: prof2
- Username: 10000003, Password: prof3
- Username: 10000004, Password: prof4
- Username: 10000005, Password: prof5
- Username: 10000006, Password: prof6

Admin:

- Username: 20000000, Password: admin