Chalkboard University Database System

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What we chose to create

- School university database

- Webpages to access/manipulate database

- Created an API from our database

- Weather application that stores information into our database

Database

- Student
- Review
- Professor
- Courses
- Enrolled_in
- Grades

- Admin_Login
- Student_Login
- Professor_Login
- Coordinates
- Weather

Languages of choice

- HTML and CSS for front end
- PHP for backend
- Python was used for API Creation and the web app

Key Features

- DBMS for University students and profs
- Login and sessions
- A review system
- Weather
- API Creation

Login/Sessions

Login

ID:	40000002

Password:	••••••••

Student ▾

Login

Forgot Password

Home Page

Home   **Profile**   **Grades**   **Reviews**

A B

Course Name	CRN	Professor Name
Advanced Algorithms	90909	Albus Dumbledore

A

Query ▾

B

Query ▾

Logout

Grades

- SN, Course Names, Grade

Student Number	Course Name	Grade
40000002	Advanced Algorithms	90%

Review System

Student Number:	40000002

Rating:	Pick a Number Between 1 and 5

→ ←

Professor Number:	100xxxxx

Populate These Fields

CRN:	90834

Submit Rating   ← Submit

Student Ratings for Professors

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

Student Review After Submit

Professors with a Rating of 3

Professor Name
Filius Flitwick
Pomona Sprout

Weather Application

Search Your City

9 °C

It'll be a bit chilly today, don't forget your jacket!

Activities!

Creating our API

```python
api={}
mycursor = mydb.cursor()

mycursor.execute("SELECT * FROM school.{TABLE_NAME}")
courses=mycursor.fetchall()
api["{TABLE_NAME}"]=TABLE_NAME
```

Creating our API

- External Access

{"Courses": [[76341, "Potions", 10000004, "Halal Potions"], [76543, "Charms", 10000003, "Levitation"], [76589, "Science", 10000006, "Diabetes"], [87656, "Transfiguration", 10000002, "Intro to Transfiguration"], [89076, "Arts", 10000005, "Advertising"], [90909, "Engineering", 10000001, "Advanced Algorithms"], [98352, "Science", 10000000, "Intro to Health Sciences"]], "enrolled_in": [[40000000, 76589, "Diabetes"], [40000001, 89076, "Advertising"], [40000002, 90909, "Advanced Algorithms"], [40000003, 90909, "Advanced Algorithms"], [40000004, 76341, "Halal Potions"], [40000005, 76543, "Levitation"], [40000000, 90909, "Advanced Algorithms"]], "grades": [[40000000, 76589, 76], [40000001, 89076, 23], [40000002, 90909, 90], [40000003, 90909, 100], [40000004, 76341, 87], [40000005, 76543, 67]], "professor": [[10000000, "John", "Liscano", "9052426696", "John.Liscano@ontariotechu.net", "Science"], [10000001, "Albus", "Dumbledore", "9054206969", "albus@ontariotechu.net", "Engineering"], [10000002, "Minerva", "McGonagall", "9059876756", "minerva@ontariotechu.net", "Transfiguration"], [10000003, "Filius", "Flitwick", "9054837865", "filius@ontariotechu.net", "Charms"], [10000004, "Severus", "Snape", "4167542783", "serverus@ontariotechu.net", "Potions"], [10000005, "Horace", "Slughorn", "9058903764", "horace@ontariotechu.net", "Arts"], [10000006, "Pomona", "Sprout", "2897654523", "pomona@ontariotechu.net", "Science"]], "review": [[40000000, 3, 10000006, 76589], [40000001, 5, 10000005, 89076], [40000002, 4, 10000001, 90909], [40000003, 4, 10000001, 90909], [40000004, 5, 10000004, 76341], [40000005, 4, 10000003, 76543]], "student": [[40000000, "Boobly", "Pop", "6472899905", "boobly@gmail.com", "Science"], [40000001, "Sohaib", "Whall", "9025641243", "sohaibW@gmail.com", "Arts"], [40000002, "Harry", "Potter", "9054431212", "boywholived@gmail.com", "Engineering"], [40000003, "Hermione", "Granger", "9052231289", "genius@gmail.com", "Engineering"], [40000004, "Dixie", "johnson", "9056942122", "dixie.Johnson@gmail.com", "Potions"], [40000005, "Joogly", "Boogly", "9586537865", "joogly@gmail.com", "Charms"]]}

Next Steps

- Complete all functionalities and finalize product
- Ability to upload files
- Have a testing period, and look for user feedback
- Support greater amount of users

Conclusion

- Thank you for your attention!