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 Passwo	ord .	

Home Page

Welcome 40000002

Home

Profile

Grades

Reviews



Course Name	CRN	Professor Name
Advanced Algorithms	90909	Albus Dumbledore

A

Query *

Query

Query ▼

Logout

Grades

Welcome 40000002

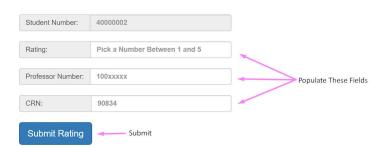
SN, Course Names, Grade

Home Profile Grades Reviews		
Student Number	Course Name	Grade
4000002	Advanced Algorithms	90%

Review System

Welcome 40000002

Home Profile Grades Reviews



Student Ratings for Professors

Student Number	Rating	Prof Number	CRN
4000002	4	10000001	90909
4000002	5	10000003	76543 Student Review After Submit

Professors with a Rating of 3

Professor Name

Filius Flitwick

Pomona Sprout

Weather Application

Seach Your City



9°C

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

Activities!

Creating our API

```
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"], [100000006,
"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!