WS EXAMS PROJECT

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Technologies

- Python (Server)
- Java (Clients)
- MySQL (Database)
- Flask-RESTful
- **JSON**









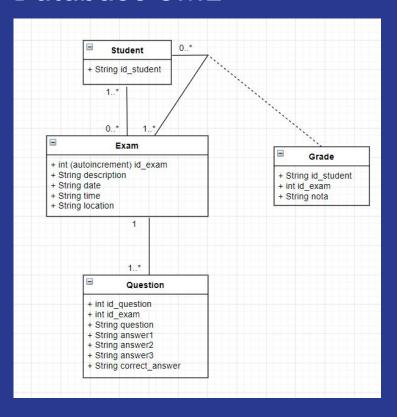


web development, one drop at a time

Classes

- Exam
- Question
- Grade
- Student

Database UML



EndPoints	Operations	resulting codes	Representations
/exams/	GET	HTTP/1.1 200	output: [{"id_exam": 1, "description": "e.g. Distributed Computing 1", "date": "01/01/2021", "time": "120", "location": "Port:5000Host:http://127.0.0.1"}, {"id_exam": 2, "description": "e.g. Distributed Computing 2", "date": "01/01/2021", "time": "120", "location": "Port:5000Host:http://127.0.0.1"}]

EndPoints	Operations	resulting codes	Representations
/exams/	POST	HTTP/1.1 201	input: {"description": "e.g. Distributed Computing 1","date":"01/01/2021", "time": "120", "location": "Port:5000Host:http://127.0.0.1"} output: {"id_exam": 2, "description": "e.g. Distributed Computing 2", "date": "01/01/2021", "time": "120", "location": "Port:5000Host:http://127.0.0.1"}]

EndPoints	Operations	resulting codes	Representations
/exams/1	GET	HTTP/1.1 200	input: <string:id_exam> output: [{"id_exam": 1, "description": "e.g. Distributed Computing 1", "date": "01/01/2021", "time": "120", "location": "Port:5000Host:http://127.0.0.1"}]</string:id_exam>

EndPoints	Operations	resulting codes	Representations
/exams/1	POST	HTTP/1.1 200	input: <string:id_exam> {"description": "Modified Exam"} output: "1 record updated"</string:id_exam>

EndPoints	Operations	resulting codes	Representations
/question/1	POST	HTTP/1.1 201	input: <string:id_exam> {"id_exam": 1,"question":"34+1", "answer1": "35", "answer2": "10", "answer3": "20", "correct_answer": "1"} output: "1 record inserted"</string:id_exam>

EndPoints	Operations	Resulting codes	Representations
/examsdesc/ied_Ex	DELETE	HTTP/1.1 201	input: <string:id_exam> output: [{"id_exam": 2, "description": "Modified Exam", "date": "01/01/2021", "time": "120", "location": "Port:5000Host:http://127.0.0.1"}]</string:id_exam>

EndPoints	Operations	Resulting codes	Representations
/examslast/ied_Ex	DELETE	HTTP/1.1 201	input: <string:id_exam> output: [{"id_exam": 2, "description": "Modified Exam", "date": "01/01/2021", "time": "120", "location": "Port:5000Host:http://127.0.0.1"}]</string:id_exam>

EndPoints	Operations	resulting codes	Representations
/grades/2	POST	HTTP/1.1 201	input: <string:id_exam> {"id_student": "ggq2", "nota": "2/3"} output: "1 record inserted"</string:id_exam>

EndPoints	Operations	resulting codes	Representations
/students/ggq2	GET	HTTP/1.1 201	input: <string:id_exam> output: [{"id_student": "ggq2"}]</string:id_exam>

EndPoints	Operations	resulting codes	Representations
/students/ggq2	POST	HTTP/1.1 201	input: <string:id_exam> output: "1 record inserted"</string:id_exam>

EndPoints	Operations	resulting codes	Representations
/students/ggq2	DELETE	HTTP/1.1 201	input: <string:id_exam> output: "1 record(s) deleted"</string:id_exam>

Create an exam

```
Archivo Acciones Editar Vista Ayuda

sydrex@kali:~$ cd universidad/
sydrex@kali:~\universidad$ cd dist_comp/
sydrex@kali:~\universidad\dist_comp$ cd prac2_final/
sydrex@kali:~\universidad\dist_comp$ cd prac2_final/
sydrex@kali:~\universidad\dist_comp\prac2_final$ cd Choise_exam_REST/
sydrex@kali:~\universidad\dist_comp/prac2_final$ cd Choise_exam_REST$ curl -H "Content-Type: application/json" -X POST
-d '{"description": "e.g. Distributed Computing 1", "date":"01/01/2021", "time": "120", "location": "Port:5000Host
:http://127.0.0.1"}' http://127.0.0.1:5000/exams/
"1 record inserted"
sydrex@kali:~\universidad/dist_comp/prac2_final/Choise_exam_REST$
```

Modify a exam description

```
sydrex@kali:~/universidad/dist_comp/prac2_final/Choise_exam_REST$ curl -H "Content-Type: application/json" -X POST
-d '{"description": "Modified Exam"}' http://127.0.0.1:5000/exams/8
"1 record updated"
sydrex@kali:~/universidad/dist_comp/prac2_final/Choise_exam_REST$ curl http://127.0.0.1:5000/exams/8
[{"id_exam": 8, "description": "Modified Exam", "date": "01/01/2021", "time": "120", "location": "Port:5000Host:http://127.0.0.1"}]
sydrex@kali:~/universidad/dist_comp/prac2_final/Choise_exam_REST$
```

Search by full description

```
sydrex@kali:~/universidad/dist_comp/prac2_final/Choise_exam_REST$ curl http://127.0.0.1:5000/examsdesc/Modified_Ex
am
[{"id_exam": 8, "description": "Modified Exam", "date": "01/01/2021", "time": "120", "location": "Port:5000Host:ht
tp://127.0.0.1"}]
sydrex@kali:~/universidad/dist_comp/prac2_final/Choise_exam_REST$
```

Delete an exam

```
sydrex@kali:~/universidad/dist_comp/prac2_final/Choise_exam_REST$ curl -X DELETE http://127.0.0.1:5000/exams/8
"1 record(s) deleted"
sydrex@kali:~/universidad/dist_comp/prac2_final/Choise_exam_REST$
```

List all exams

```
sydrex@kali:~/universidad/dist_comp/prac2_final/Choise_exam_REST$ curl http://127.0.0.1:5000/exams/
[{"id_exam": 4, "description": "examen", "date": "01/01/2021", "time": "120", "location": "UdL"}, {"id_exam": 5, "description": "description5", "date": "01/01/2021", "time": "120", "location": "UdL"}, {"id_exam": 7, "description": "e.g. Distributed Computing 1", "date": "01/01/2021", "time": "120", "location": "Port:5000Host:http://127.0.0.
1"}, {"id_exam": 9, "description": "examTest", "date": "01/01/2021", "time": "120", "location": "Port:5000Host:http://127.0.0.1"}, {"id_exam": 10, "description": "exam4", "date": "01/01/2021", "time": "120", "location": "Port:5000Host:http://127.0.0.1"}]
sydrex@kali:~/universidad/dist_comp/prac2_final/Choise_exam_REST$
```

Create an student

```
sydrex@kali:~/universidad/dist_comp/prac2_final/Choise_exam_REST$ curl -X POST http://127.0.0.1:5000/students/alp4
"1 record inserted"
```

Upload grades

```
sydrex@kali:~/universidad/dist_comp/prac2_final/Choise_exam_REST$ curl -H "Content-Type: application/json" -X POST
-d '{"id_student": "alp4", "nota": "2/3"}' http://127.0.0.1:5000/grades/7
"1 record inserted"
```

Try to delete exam with grades

```
sydrex@kali:~/universidad/dist_comp/prac2_final/Choise_exam_REST$ curl -X DELETE http://127.0.0.1:5000/exams/7
"Error:This exam have grades"
sydrex@kali:~/universidad/dist_comp/prac2_final/Choise_exam_REST$ curl -X DELETE http://127.0.0.1:5000/grades/7
"2 record(s) deleted"
sydrex@kali:~/universidad/dist_comp/prac2_final/Choise_exam_REST$ curl http://127.0.0.1:5000/exams/7
[{"id_exam": 7, "description": "e.g. Distributed Computing 1", "date": "01/01/2021", "time": "120", "location": "P ort:5000Host:http://127.0.0.1"}]
sydrex@kali:~/universidad/dist_comp/prac2_final/Choise_exam_REST$ curl -X DELETE http://127.0.0.1:5000/exams/7
"1 record(s) deleted"
```

Search an exam by its partial description

```
sydrex@keli:~/universidad/dist_comp/prac2_final/Choise_exam_REST$ curl http://127.0.0.1:5000/examsdesc/amT
[{"id_exam": 9, "description": "examTest", "date": "01/01/2021", "time": "120", "location": "Port:5000Host:http://
127.0.0.1"}]
sydrex@keli:~/universidad/dist_comp/prac2_final/Choise_exam_REST$
```

Show grades

```
sydrex@kali:~/universidad/dist_comp/prac2_final/Choise_exam_REST$ curl http://127.0.0.1:5000/grades/9
[{"id_student": "ggq2", "id_exam": 9, "nota": "3/3"}]
sydrex@kali:~/universidad/dist_comp/prac2_final/Choise_exam_REST$
```

Check some ID from an existent student

```
sydrex@kali:~/universidad/dist_comp/prac2_final/Choise_exam_REST$ curl http://127.0.0.1:5000/students/ggq2
[{"id_student": "ggq2"}]
sydrex@kali:~/universidad/dist_comp/prac2_final/Choise_exam_REST$
```

Dedication time

The estimated dedication time to this project are around 50 hours.

Github

https://github.com/Gengigq96/Choise_exam_REST