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SQL Query to create Database

```
CREATE TABLE courses(  
    id int(10) UNSIGNED NOT NULL,  
    course_title varchar(100) NOT NULL UNIQUE,  
    course_description text NOT NULL,  
    course_deadline DATE NOT NULL,  
  
    CONSTRAINT pk_courses PRIMARY KEY courses(id)  
);
```

For basicPHP project

Description

- Validations have not been implemented here.
- OOP concepts are implemented
- Adding and updating courses done

Adding Courses

1. Scenario 01 – Adding a valid course

POST Request: <http://localhost:40/Sample/api/addCourse.php>

Request body:

```
{  
    "course_title": "Software Engineering",  
    "course_description": "Software engineering is the discipline of designing, creating and maintaining  
software by applying technologies and practices from computer science, project management,  
engineering, application domains, interface design, digital assets management and other fields. ",  
    "course_deadline": "2022-01-01"  
}
```

Response:

```
{  
    "message": "Course added!"  
}
```

+ Options

	id	course_title	course_description	course_deadline
<input type="checkbox"/> Edit <input type="button" value="Copy"/> <input type="button" value="Delete"/>	8	Software Engineering	Software engineering is the discipline of designin...	2022-01-01

Editing Courses

2. Scenario 01 – Updating a course

PUT Request: <http://localhost:40/Sample/api/editCourse.php>




Request body:

```
{
  "id":8,
  "course_title": "Software Engineering",
  "course_description": "Software engineering is the discipline of designing, creating and maintaining
software by applying technologies and practices from computer science, project management,
engineering, application domains, interface design, digital assets management and other fields. ",
  "course_deadline": "1999-10-10"
}
```

Response:

```
{
  "message": "Course updated!"
}
```

*changed the date

	id	course_title	course_description	course_deadline
<input type="checkbox"/>  Edit  Copy  Delete	8	Software Engineering	Software engineering is the discipline of designin...	1999-10-10

For myapp project (Laravel)

Description

- OOP concepts have not been implemented.
- All validations are done
- Updating and Adding Courses done.

Constraints

- Title - required and minimum length can be 4
- Description – required, minimum length is 20, maximum length is 250
- Date – required and format check (yyyy-mm-dd)
- Duplicate entries not allowed for title

Adding Courses

1. Scenario 01 – Adding a course - successfully

POST Request: <http://127.0.0.1:8000/api/course>

Request body:

```
{
  "course_title": "Business Management",
  "course_description": "business management. The activities associated with running a company,
such as controlling, leading, monitoring, organizing, and planning.",
  "course_deadline": "2020-10-09"
}
```

Response:

```
{
  "course_title": "Business Management",
  "course_description": "business management. The activities associated with running a company,
such as controlling, leading, monitoring, organizing, and planning.",
  "course_deadline": "2020-10-09",
  "id": 11
}
```

		id	course_title	course_description	course_deadline
<input type="checkbox"/>	Edit Copy Delete	8	Software Engineering	Software engineering is the discipline of designin...	1999-10-10
<input type="checkbox"/>	Edit Copy Delete	11	Business Management	business management. The activities associated wit...	2020-10-09

2. Scenario 02 – Adding a course – empty title

POST Request: <http://127.0.0.1:8000/api/course>

Request body:

```
{
  "course_title": " ",
  "course_description": "business management. The activities associated with running a company,
such as controlling, leading, monitoring, organizing, and planning.",
  "course_deadline": "2020-10-09"
}
```

Response:

```
{
  "course_title": [
    "The course title field is required."
  ]
}
```

3. Scenario 03 – Adding a course – empty description

POST Request: <http://127.0.0.1:8000/api/course>

Request body:

```
{
  "course_title": "Business",
  "course_description": "",
  "course_deadline": "2020-10-09"
}
```

Response:

```
{
  "course_description": [
    "The course description field is required."
  ]
}
```

4. Scenario 04– Adding a course – empty deadline

POST Request: <http://127.0.0.1:8000/api/course>

Request body:

```
{
```

```
"course_title": "Business",
"course_description": "business management. The activities associated with running a company,
such as controlling, leading, monitoring, organizing, and planning.",
"course_deadline": " "
}
```

Response:

```
{
  "course_deadline": [
    "The course deadline field is required."
  ]
}
```

5. Scenario 05 – Adding a course – all invalid values

POST Request: <http://127.0.0.1:8000/api/course>

Request body:

```
{
  "course_title": "Ah",
  "course_description": "business management. The activities associated with running a company,
such as controlling, leading, monitoring, organizing, and planning.business management. The
activities associated with running a company, such as controlling, leading, monitoring, organizing,
and planning.business management. The activities associated with running a company, such as
controlling, leading, monitoring, organizing, and planning.",
  "course_deadline": "2020-10asdads9"
}
```

Response:

```
{
  "course_title": [
    "The course title must be at least 4 characters."
  ],
  "course_description": [
    "The course description may not be greater than 250 characters."
  ],
  "course_deadline": [
    "The course deadline is not a valid date."
  ]
}
```

6. Scenario 06 – Adding a course – all empty

POST Request: <http://127.0.0.1:8000/api/course>

Request body:

```
{
  "course_title": "",
  "course_description": "",
  "course_deadline": ""
}
```

Response:

```
{
  "course_title": [
    "The course title field is required."
  ],
  "course_description": [
    "The course description field is required."
  ],
  "course_deadline": [
    "The course deadline field is required."
  ]
}
```

7. Scenario 07 – Adding a course – check duplications

POST Request: <http://127.0.0.1:8000/api/course>

Request Body:

```
{
  "course_title": "Business Management",
  "course_description": "business management. The activities associated with running a company, such as controlling, leading, monitoring, organizing, and planning.",
  "course_deadline": "2020-10-09"
}
```

Response:

```
{
  "course_title": [
    "The course title has already been taken."
  ]
}
```

```
}
```

Editing Courses

1. Scenario 01: updating an existing record







PUT Request: <http://127.0.0.1:8000/api/course/11>

Request Body:

```
{
  "course_description": "This Course is no longer available ",
  "course_deadline": "1111-11-11"
}
```

Response:

```
{
  "id": 11,
  "course_title": "Business Management",
  "course_description": "This Course is no longer available",
  "course_deadline": "1111-11-11"
}
```

+ Options						id	course_title	course_description	course_deadline
<input type="checkbox"/>				8	Software Engineering	Software engineering is the discipline of designin...	1999-10-10		
<input type="checkbox"/>				11	Business Management	This Course is no longer available	1111-11-11		

2. Scenario 02 – updating a non-existing course

PUT Request: <http://127.0.0.1:8000/api/course/100>

Request Body:

```
{
  "course_description": "This Course is no longer available ",
  "course_deadline": "1111-11-11"
}
```

Response:

```
{
  "message": "Record Not found!"
}
```