



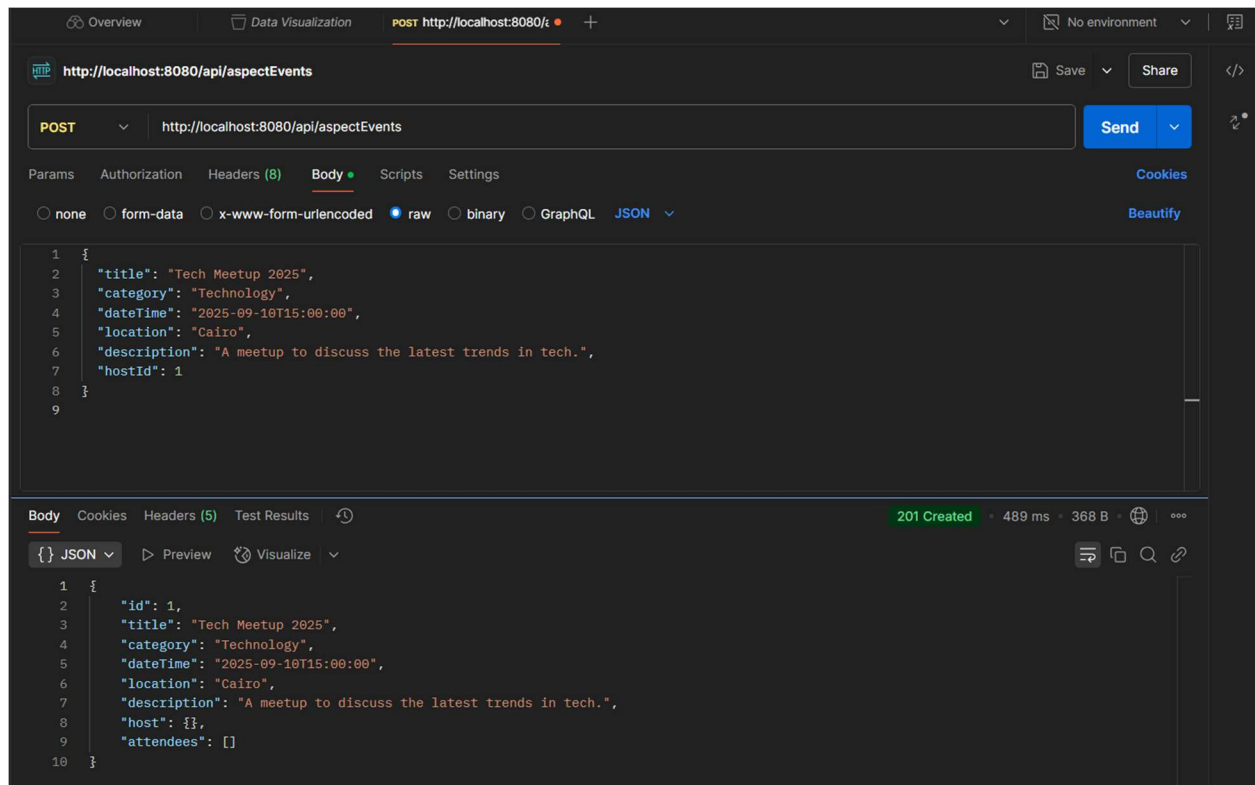
CSE434 - Aspect- and Service-Oriented Software Systems

Lab 3

Name	Judy Khaled Mohamed Abdelmonem
ID	20P6630

1. Postman Screenshots:

- Create event



- Retrieve all Events

http://localhost:8080/api/aspectEvents

GET http://localhost:8080/api/aspectEvents

Params Authorization Headers (6) Body Scripts Settings

none form-data x-www-form-urlencoded raw binary GraphQL JSON

200 OK · 117 ms · 576 B

Body Cookies Headers (5) Test Results

JSON Preview Visualize

```
1 [
2   {
3     "id": 1,
4     "title": "Tech Meetup 2025",
5     "category": "Technology",
6     "dateTime": "2025-09-10T15:00:00",
7     "location": "Cairo",
8     "description": "A meetup to discuss the latest trends in tech.",
9     "host": {},
10    "attendees": []
11  },
12  {
13    "id": 2,
14    "title": "Frontend Bootcamp",
15    "category": "Web Development",
16    "dateTime": "2025-07-22T14:00:00",
17    "location": "ASU",
18    "description": "Learn HTML, CSS, and basic JavaScript in one session.",
19    "host": {},
20    "attendees": []
21  }
22 ]
```

Server: 127.0.0.1 » Database: lab3db » Table: events

Browse Structure SQL Search Insert Export Import Privileges Operations Tracking Triggers

Showing rows 0 - 1 (2 total, Query took 0.0004 seconds.)

SELECT * FROM `events`

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Show all Number of rows: 25 Filter rows: Search this table Sort by key: None

Extra options

		id	category	date_time	description	location	title	host_id
<input type="checkbox"/>	Edit Copy Delete	1	Technology	2025-09-10 12:00:00.000000	A meetup to discuss the latest trends in tech.	Cairo	Tech Meetup 2025	1
<input type="checkbox"/>	Edit Copy Delete	2	Web Development	2025-07-22 11:00:00.000000	Learn HTML, CSS, and basic JavaScript in one sessi...	ASU	Frontend Bootcamp	1

Check all With selected: Edit Copy Delete Export

Show all Number of rows: 25 Filter rows: Search this table Sort by key: None

- Get an event by ID

REST client interface showing a GET request to `http://localhost:8080/api/aspectEvents/2`. The response is a 200 OK status with a JSON body containing event details.

```
1 {
2   "id": 2,
3   "title": "Frontend Bootcamp",
4   "category": "Web Development",
5   "dateTime": "2025-07-22T14:00:00",
6   "location": "ASU",
7   "description": "Learn HTML, CSS, and basic JavaScript in one session.",
8   "host": {},
9   "attendees": []
10 }
```

- Update event

REST client interface showing a PUT request to `http://localhost:8080/api/aspectEvents/1`. The response is a 200 OK status with a JSON body containing updated event details.

```
1 {
2   "title": "Tech TALK",
3   "category": "TECH",
4   "dateTime": "2025-09-10T15:00:00",
5   "location": "Cairo",
6   "description": "A meetup to discuss the latest trends in tech.",
7   "hostId": 1
8 }
9
```

```
1 {
2   "id": 1,
3   "title": "Tech TALK",
4   "category": "TECH",
5   "dateTime": "2025-09-10T15:00:00",
6   "location": "Cairo",
7   "description": "A meetup to discuss the latest trends in tech.",
8   "host": {},
9   "attendees": []
10 }
```

[Browse](#)
[Structure](#)
[SQL](#)
[Search](#)
[Insert](#)
[Export](#)
[Import](#)
[Privileges](#)
[Operations](#)
[Tracking](#)
[Triggers](#)

Showing rows 0 - 1 (2 total, Query took 0.0005 seconds.)

SELECT * FROM `events`

☐ Profiling
 [\[Edit inline \]](#)
[\[Edit \]](#)
[\[Explain SQL \]](#)
[\[Create PHP code \]](#)
[\[Refresh \]](#)

☐ Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

Extra options

		id	category	date_time	description	location	title	host_id		
<input type="checkbox"/>	Edit	Copy	Delete	1	TECH	2025-09-10 12:00:00.000000	A meetup to discuss the latest trends in tech.	Cairo	Tech TALK	1

- Delete event

Before:

[Server: 127.0.0.1](#) > [Database: lab3db](#) > [Table: events](#)

[Browse](#)
[Structure](#)
[SQL](#)
[Search](#)
[Insert](#)
[Export](#)
[Import](#)
[Privileges](#)
[Operations](#)
[Tracking](#)
[Triggers](#)

Showing rows 0 - 1 (2 total, Query took 0.0005 seconds.)

SELECT * FROM `events`

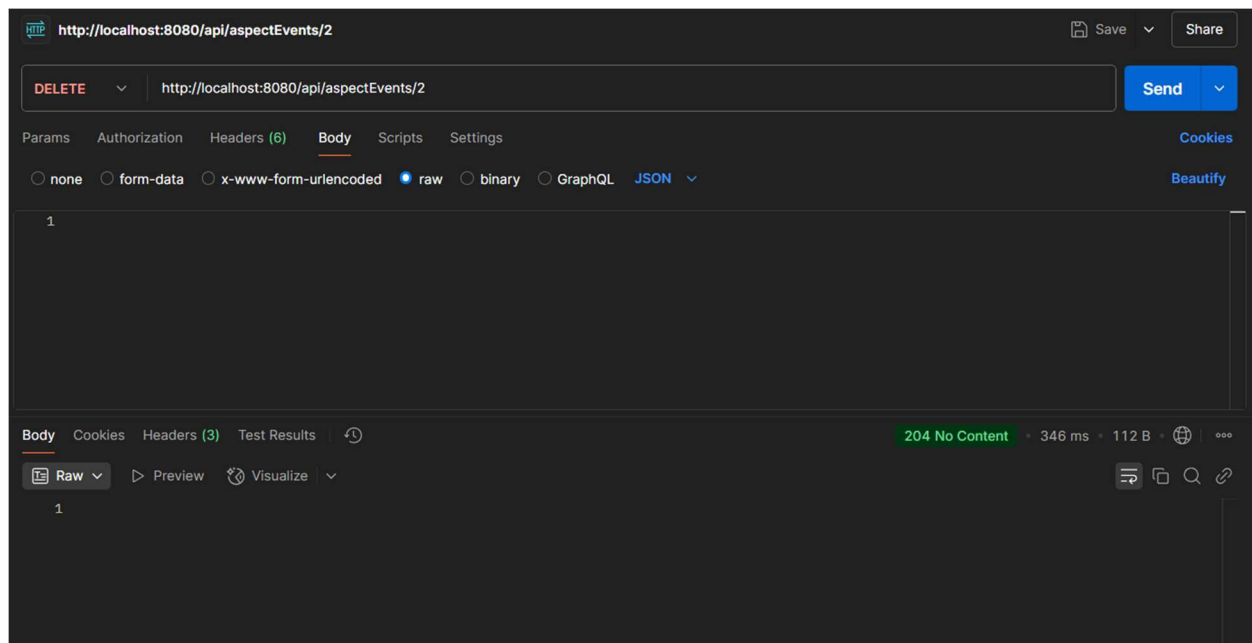
☐ Profiling
 [\[Edit inline \]](#)
[\[Edit \]](#)
[\[Explain SQL \]](#)
[\[Create PHP code \]](#)
[\[Refresh \]](#)

☐ Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

Extra options

		id	category	date_time	description	location	title	host_id		
<input type="checkbox"/>	Edit	Copy	Delete	1	TECH	2025-09-10 12:00:00.000000	A meetup to discuss the latest trends in tech.	Cairo	Tech TALK	1
<input type="checkbox"/>	Edit	Copy	Delete	2	Web Development	2025-07-22 11:00:00.000000	Learn HTML, CSS, and basic JavaScript in one sessi...	ASU	Frontend Bootcamp	1

☐ Check all | With selected: [Edit](#) [Copy](#) [Delete](#) [Export](#)



After:

Showing rows 0 - 0 (1 total, Query took 0.0006 seconds.)

```
SELECT * FROM `events`
```

☐ Profiling [[Edit inline](#)] [[Edit](#)] [[Explain SQL](#)] [[Create PHP code](#)] [[Refresh](#)]

☐ Show all | Number of rows: 25 | Filter rows:

Extra options

	id	category	date_time	description	location	title	host_id
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	1	TECH	2025-09-10 12:00:00.000000	A meetup to discuss the latest trends in tech.	Cairo	Tech TALK	1

☐ Check all | With selected: ☐ Edit ☐ Copy ☐ Delete ☐ Export

☐ Show all | Number of rows: 25 | Filter rows:

- **RSVP to Events** (user id 1 will respond to attend event id 1)

The screenshot shows a REST client interface with the following details:

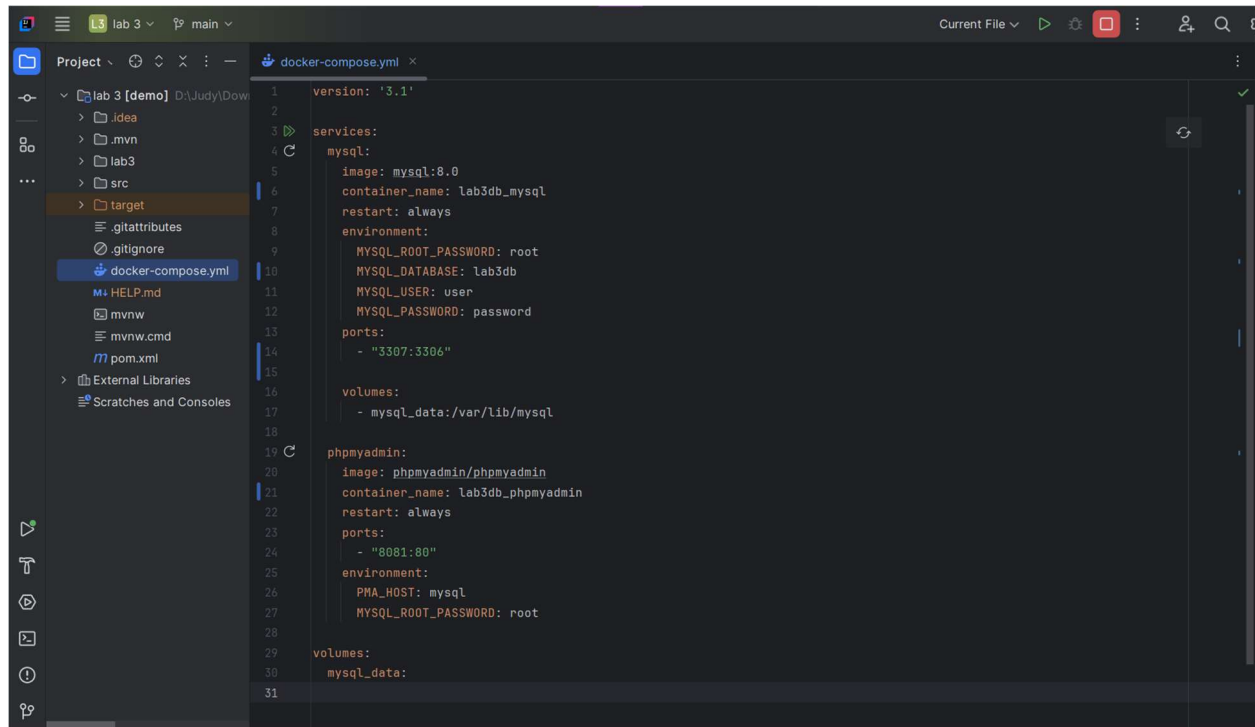
- URL:** `http://localhost:8080/api/aspectEvents/1/rsvp?userId=1`
- Method:** POST
- Body:** `1`
- Response:** 200 OK, 35 ms, 352 B. The response body is a JSON object:

```
{  "id": 1,  "title": "Tech TALK",  "category": "TECH",  "dateTime": "2025-09-10T15:00:00",  "location": "Cairo",  "description": "A meetup to discuss the latest trends in tech.",  "host": {},  "attendees": [    {}  ]}
```

The screenshot shows a database management tool interface with the following details:

- Table:** event_attendees
- Query:** `SELECT * FROM `event_attendees``
- Results:** Showing rows 0 - 0 (1 total, Query took 0.0004 seconds.)
- Table Structure:** event_id, user_id
- Data:** 1 row with values 1 and 1.

2. Use docker-compose.yml to connect to mysql



The screenshot shows an IDE window with a project named 'lab 3' and a file named 'docker-compose.yml' open. The file contains the following configuration:

```
1 version: '3.1'
2
3 services:
4   mysql:
5     image: mysql:8.0
6     container_name: lab3db_mysql
7     restart: always
8     environment:
9       MYSQL_ROOT_PASSWORD: root
10      MYSQL_DATABASE: lab3db
11      MYSQL_USER: user
12      MYSQL_PASSWORD: password
13     ports:
14       - "3307:3306"
15
16     volumes:
17       - mysql_data:/var/lib/mysql
18
19   phpmyadmin:
20     image: phpmyadmin/phpmyadmin
21     container_name: lab3db_phpmyadmin
22     restart: always
23     ports:
24       - "8081:80"
25     environment:
26       PMA_HOST: mysql
27       MYSQL_ROOT_PASSWORD: root
28
29 volumes:
30   mysql_data:
```


3. relations between the two different entities in my database.

Relation 1 — Event hosted by a User (Many-to-One)

```
@ManyToOne 2 usages
@JoinColumn(name = "host_id")
private User host;
```

This means:

- Each event has one host (a user).
- Each user (host) can host multiple events.
- The column in the events table is host_id.

Relation 2 — Event has many attendees (Many-to-Many):

```
@ManyToMany 2 usages
@JoinTable(
    name = "event_attendees",
    joinColumns = @JoinColumn(name = "event_id"),
    inverseJoinColumns = @JoinColumn(name = "user_id")
)
private Set<User> attendees = new HashSet<>();
```

This means:

- Each event can have many users as attendees.
- Each user can attend many events.
- A join table event_attendees connects the two with event_id and user_id.

4. GITHUB REPO LINK

<https://github.com/JudyKhaled/CSE-Aspect-Submissions.git>