Objective

The objective of this workshop is to write a simple CRUD application. You will map the HTTP methods to SQL verbs

Setup

a. Create a Git repository for this project
b. Generate a SpringBoot application and include the following dependencies:
    i. SpringBoot Dev Tools
    ii. Spring Web
    iii. Thymeleaf
    iv. JDBC API
    v. MySQL Connector Java
    vi. JSOP-P

Workshop

Task 1

Create a schema for your RSVP database. The database should have 1 table called rsvp with the following fields

Field name	Field type
Name	String
Email	String
Phone	String
Confirmation date	Date
Comments	Text

Determine which field to use for primary key. It can be one of the above or a complete new field. What is the advantage to a new field?

Task 2

Write REST controller(s) to process the following HTTP requests

- Get all RSVPs - get all the RSVPs from the database

```
GET /api/rsvps
Accept: application/json
```

- Search for a RSVP - search a RSVP by name (or parts of)

  ```
  GET /api/rsvp?q=fred
  Accept: application/json
  ```

  Return a 404 and an appropriate error object if you cannot find the RSVP. This method should return all matching RSVP records.

- Add a new RSVP - add a new RSVP into the table. If it is an existing RSVP, overwrite the RSVP in the table with this new RSVP

  ```
  POST /api/rsvp
  Content-Type: application/x-www-form-urlencoded
  Accept: application/json
  ```

  Return a 201 if the operation is successful.

- Update an existing RSVP

  ```
  PUT /api/rsvp/fred@gmail.com
  Content-Type: application/x-www-form-urlencoded
  Accept: application/json
  ```

  Return a 201 if the update operation is successful; a 404 if the email is not found

- Get the number of RSVPs - get the number of people who have RSVPs

  ```
  GET /api/rsvps/count
  Accept: application/json
  ```

  Return a 201 if the operation is successful.

Submission

Push your code to your repository when you have completed your work