

Technical Test

Blog Application

Approx. time for completion: 2 - 3 hours



GETTING STARTED

1. Open Command Prompt (Windows) / Terminal (MacOS), execute the command below to get the application source code.

```
git clone https://github.com/kuantyng/tf-test.git
```

2. In the Command Prompt (Windows) / Terminal (MacOS), change directory to the project root folder, execute the command below to run the application.

Windows:

```
mvnw
```

MacOS:

```
./mvnw
```

3. Open another Command Prompt (Windows) / Terminal (MacOS), change directory to the project root folder, execute the command below to run Webpack. (This step is required to see changes in your TypeScript code and have live reloading of your client-side code.)

```
npm start
```

4. The application will be available on <http://localhost:9000/>.

PART 1 - BACKEND VALIDATIONS

(Approx. time for completion: 30 - 45 minutes)

1. Users are not allowed to post negative emotion emoji in a positive blog, and the other way round. (Refer to the table below.) If violated, show the message “Invalid Emoji”.

Hint: Throw `BadRequestAlertException` to show the error message on the web.

```
throw new BadRequestAlertException("Invalid Emoji", ENTITY_NAME, "invalidEmoji");
```

Emoji	Emotion	Allow to be used in blog
LIKE	Positive	Positive blog only
HAHA	Positive	Positive blog only
WOW	Neutral	Positive and negative blogs
SAD	Negative	Negative blog only
ANGRY	Negative	Negative blog only

2. Users are not allowed to use negative emotion keywords in a positive blog title and content, and the other way round. (Refer to the table below.) If violated, show the message “Invalid Content”.

Hint: Throw `BadRequestAlertException` to show the error message on the web.

```
throw new BadRequestAlertException("Invalid Content", ENTITY_NAME, "invalidContent");
```

Keyword	Emotion	Allow to be used in blog
SAD	Negative	Negative blog only
FEAR	Negative	Negative blog only
LONELY	Negative	Negative blog only
LOVE	Positive	Positive blog only
HAPPY	Positive	Positive blog only
TRUST	Positive	Positive blog only

Notes:

- Validate the keywords without case sensitivity. For example, “SAD”, “Sad”, and “sad” are not allowed to be used in the positive blog title and content.
- Verify the keywords as a whole word. For example, users are not allowed to use “fear” in a positive blog, but they are allowed to use “fearless” in a positive blog; users are not allowed to use “happy” in a negative blog, but they are allowed to use “unhappy” in a negative blog.

PART 2 - API

(Approx. time for completion: 30 - 45 minutes)

1. Create an API to remove blog entries that contain certain keywords from all the blogs.

Request Method: DELETE

Request URL: /api/blogs/clean

Request Parameter: The keywords

Hint: Go to (Top navigation bar) "Administration | API" to test the API.

For example:

- Remove all the blog entries that contain the keywords "rubbish" or "hell" in the title or content.

2. Create an API to remove blog entries that contain certain keywords from a specific blog.

Request Method: DELETE

Request URL: /api/blogs/{id}/clean

({id} in the request URL above is the ID of the blog that need to perform entries cleanup)

Request Parameter: The keywords

Hint: Go to (Top navigation bar) "Administration | API" to test the API.

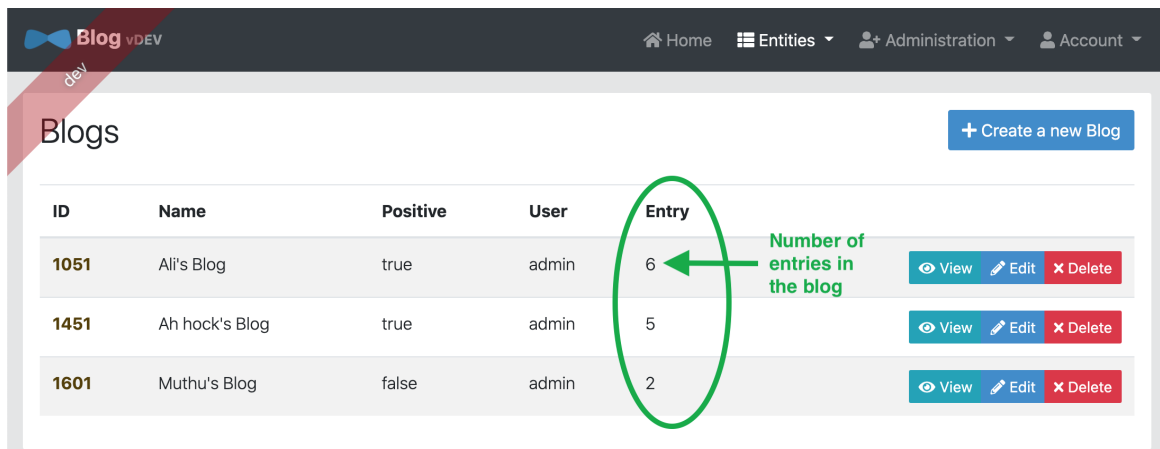
For example:

- Remove entries from blog A(Blog ID=1), if the entries' title or content contain the keywords "rude".
- Remove entries from blog B(Blog ID=2), if the entries' title or content contain the keywords "lol" or "rofl".

PART 3 - UI Enhancement

(Approx. time for completion: 15 - 30 minutes)

1. Add a new column into the blog listing table (<http://localhost:9000/blog>) to display the number of entries in the blogs.



The screenshot shows a web application interface for managing blogs. The header includes a logo, navigation links (Home, Entities, Administration, Account), and a 'dev' environment indicator. The main content area is titled 'Blogs' and features a '+ Create a new Blog' button. Below the title is a table listing three blogs. A new column, 'Entry', has been added to the table, displaying the number of entries for each blog. The values are 6, 5, and 2 respectively. A green circle highlights the 'Entry' column, and a green arrow points to the value '6' in the first row, with a label 'Number of entries in the blog'.

ID	Name	Positive	User	Entry	
1051	Ali's Blog	true	admin	6	View Edit Delete
1451	Ah hock's Blog	true	admin	5	View Edit Delete
1601	Muthu's Blog	false	admin	2	View Edit Delete

SUBMISSION

Commit the codes to your own repository, and provide us the clone command.

If you do not have a repository, you can sign up <https://github.com/>.