

Simple “Twitter” application

The task consists of two steps. The first one is the implementation step and in the second one, you are supposed to describe the work needed to finish the task.

Step 1)

Your task is to create a simple application which should work similar to Twitter. You shouldn't spend more than a couple of evenings to implement it. If you are taking shortcuts just make sure to describe how you will proceed with real implementation.

The requirements for the application are:

- A user should be able to send a message with a tag to the server, using API calls
- A user should be able to lookup all the messages containing a specific tag

Your task is to design the JSON API to send the messages and query for messages containing a specific tag.

In addition, there should be a management API to allow grouping tweets by timeframe (e.g. per year from 2005 to 2010). It's most likely not helpful to return thousands of tweets, but rather return a count of tweets per timeframe or a count of tweets for a specific tag per timeframe to see trends.

Implement the server backend in any technology. Present your work in a way that is easy for verification and testing.

You are in charge of this project. When in doubt use your best judgment and pick up the technologies you want providing an explanation of why given technology was chosen.

Step 2)

After the application is implemented, you are supposed to deploy it into production, possibly scaling it up so that a great number of users can use it simultaneously.

Describe what steps you would take to make sure that deployment is successful, the application is easy to maintain, easy to extend in the future and how to ensure its high quality.

Good luck!