



Coding challenge

Our platform deals mostly with text storing and processing with different languages ie: **Arabic**, **English** and **French**.

A text must have one of following states:

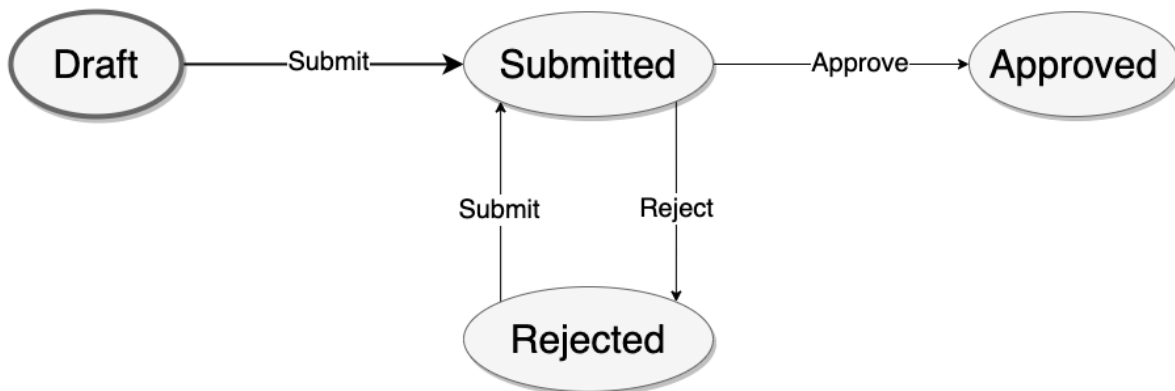


Figure 1

- First, when we create/add a text, it will automatically have a “draft” state (Figure above).
- Then, the text will be submitted for review, in that case, the text will have the state “submitted”.
- A “submitted” text can either be “rejected” or “approved”. (We can do one of the two actions: approve or reject).
- In case the text is rejected (state: “rejected”), It can be submitted again for review (check the figure above).

N.B:

- The state transitions must respect the graph above (i.e: a text can’t go from “draft” state to “approved” state directly without being submitted).

Specifications

In order to be sure that you have a strong understanding of **JavaScript** and **Node.js**, Can you build a rest API that allows:

- *CRUD* operations on texts while each text contains three versions: **French**, **English**, **Arabic**.
 - **POST /text/**
Upload and store text with a unique Id to the database.
 - **GET /text/**
Fetch list of text with the support of pagination.
 - **PUT /text/:textId**
Update text content.
 - **GET /text/:textId/count**
Fetch total word number of given a text
 - **GET /text/:textId/count/:language**
Fetch total word number based on given text for specific languages ex: fr, ar, en
 - **GET /text/mostOccurrent**
Get the most recurrent word in the whole text database
- Implement the endpoints that update the text state as explained above (Figure 1).
- Search functionalities:
 - **POST /text/search?q=johnDoe**
Fetch texts based on fuzzy search using query q.

NB:

- Integration and unit tests are optionals but would be a plus.
- You are free to use any **Node.js** framework.
- You can use a standalone **mongoDB** container or 'MongoDB Atlas' free tier.
- You are free to choose between **JS** or **TS**.
- Front-end side is not required.
- Once you are done, publish your code to a public Github repository then share with us the link.
- The code is expected to be production ready.

You'll be judged on code quality, readability and clean architecture.