

BCG Digital Ventures, Interview Challenge: Front End Web

Consider an idea/memo board where you can create an idea, edit existing ideas and delete old ideas.

Each *idea* should have a unique id (read-only), a creation date (read-only), a title (editable), and a body (editable), which can contain a maximum of 140 characters.

Assume that there is a backend REST service with the following endpoints:

- GET ideas/ -> [{"id": ":id", "created_date": ":created_date", "title": ":title", "body": ":body"},
 {}, ...]
- GET ideas/new -> { "id": ":id", "created date": ":created date" }
- POST idea/update { "id": ":id", "title": ":title", "body": ":body" }
- POST idea/delete { "id": ":id" }

Assume that the back-end makes of use of standard HTTP success and error codes.

Required

- 1. Ideas should be displayed as tiles, with a height and width of 150px and a 10px margin, aligned horizontally to fit screen width. You can hard code a few ideas to get you started.
- 2. There should be a button that can be clicked to add a new blank idea, and the title field should be focused to prompt the user to begin typing. A request should be made to a backend REST service to get an id for the new idea, as well as the created date.
- 3. The title and body fields should be editable. These fields should have no border when blurred, but a solid light grey border when they are focused. Blurring any of these fields should trigger an update request to the backend REST service.
- 4. Each tile should have a delete icon which should only be visible when hovering over the tile. Clicking it should remove the idea and make an update request to the backend REST service.

Stretch

- 1. Implement sorting that changes with a dropdown. The sort options should be title and created date.
- Implement a character counter that is displayed when the body field is edited and the remaining character count is <15. Hide the counter when the remaining characters count is >15
- 3. Use localStorage to persist the ideas so that they persist after a page refresh.
- 4. Implement a notification to tell the user that edits have been successfully saved. Ensure the notification isn't intrusive.