Erato CommentR

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Application URL

https://erato-frontend.s3.amazonaws.com/index.html
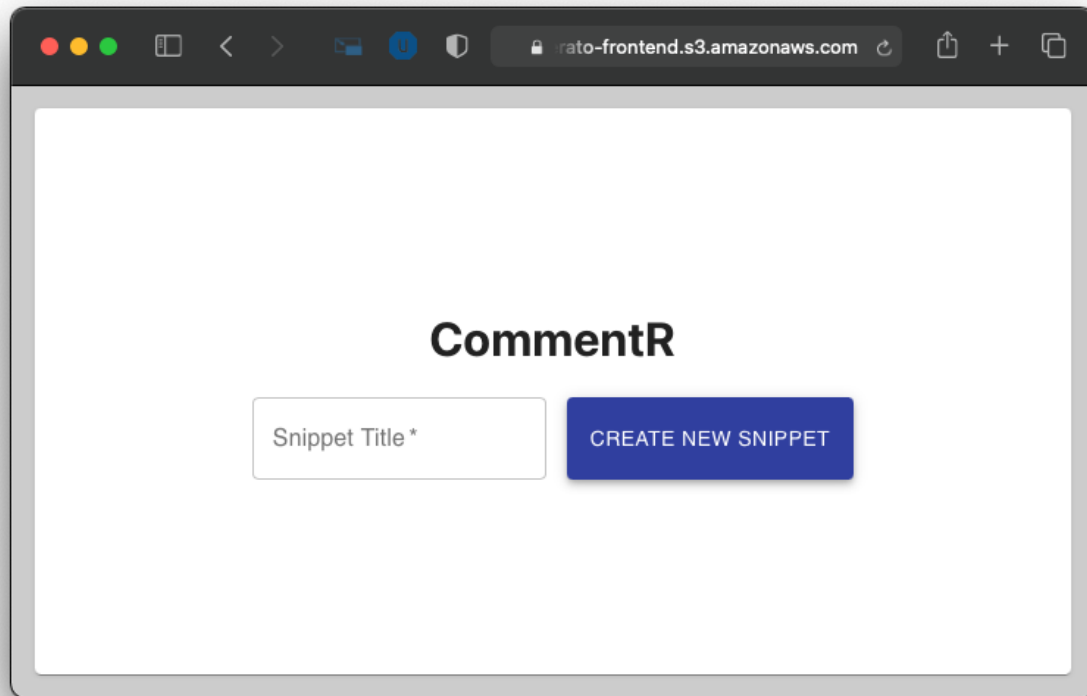
A Note on AWS Lag when your first open the site
The application uses WebSockets and DynamoDB. Sometimes AWS takes an extended period of time loading everything when you create a snippet - since it has to start up at least four lambda functions and a database system. This may take **over a minute**. If you see any error messages the first time you spin up the application or the first time you execute a use case, try refreshing your web browser. If something takes over 2 minutes to respond, odds are that AWS gobbled up the request and you should probably refresh the page and try again.
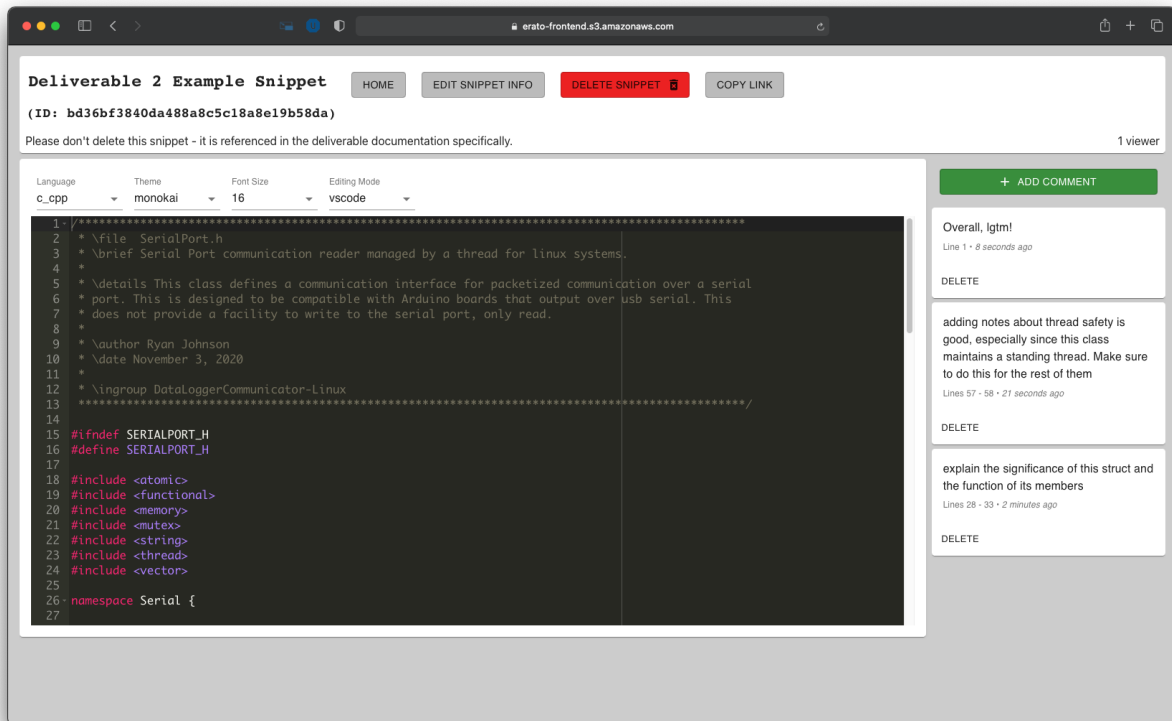
Application Notes

Homepage

Use Cases:
1) Create a new snippet by typing in a name for your snippet and then pressing "create new snippet"
2) Use the Konami code (↑↑↓↓←→←→ba↵) when your cursor is not in the text box to access the administrator's panel

Snippet Editor

The snippet shown in the screenshot above can be accessed via the following link if you would like to check it out:
https://erato-frontend.s3.amazonaws.com/index.html#/snippet/bd36bf3840da488a8c5c18a8e19b58da
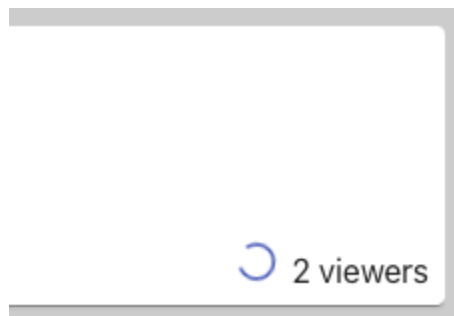
Use Cases:
- Edit snippet metadata (title, description, language)
    - Only available if you are the snippet creator. See "Miscellaneous Notes" below for details on tracking who is the snippet creator
    - Click the "edit snippet info" button on the top of the page. You should see a modal appear where you can adjust the description and title of the snippet.
    - Use the language drop-down menu above the editor window. This will allow you to change the language for all participants.
    - Any metadata changes are immediately broadcast to all viewers over websockets, which should give the editor the appearance of updating live
- Update snippet text
    - Simply type into the text editor to update text. As you type, the edits will be saved to the database. Things can get messy if multiple people are typing simultaneously, though.
- Delete snippet

- ○ Only available/visible if you are the snippet creator.
  - ○ Click the big red delete button at the top of the page. The snippet will be deleted from the database, and all viewers will be kicked off
- Copy shareable link
  - ○ Anyone can press "COPY LINK" to copy the snippet URL to their clipboard so that they can easily share it with other people
- Create comment
  - ○ If you have selected a region of text, or your cursor in the editor window has a defined position (i.e. you've clicked into the editor once), you can make a comment. Pressing the new comment button will make a modal editor appear where you can type comment text if you have a region selected.
  - ○ Once you save your comment, it should appear to you and all snippet viewers simultaneously.
- Delete comment
  - ○ Any user can delete a comment by pressing the delete button on a comment in the comment sidebar
- View snippet text
  - ○ We hold this use case to be self-evident
- View comments
  - ○ Note: The associated comment region is shown in the comment as a line range or a single line. *Line numbers describing the comment region do not stay up-to-date as the text is changed.*
- Show viewer count
  - ○ In the top right-hand corner of of the screen, there should be a counter that will tell you how many web browsers (yourself included) are viewing the snippet
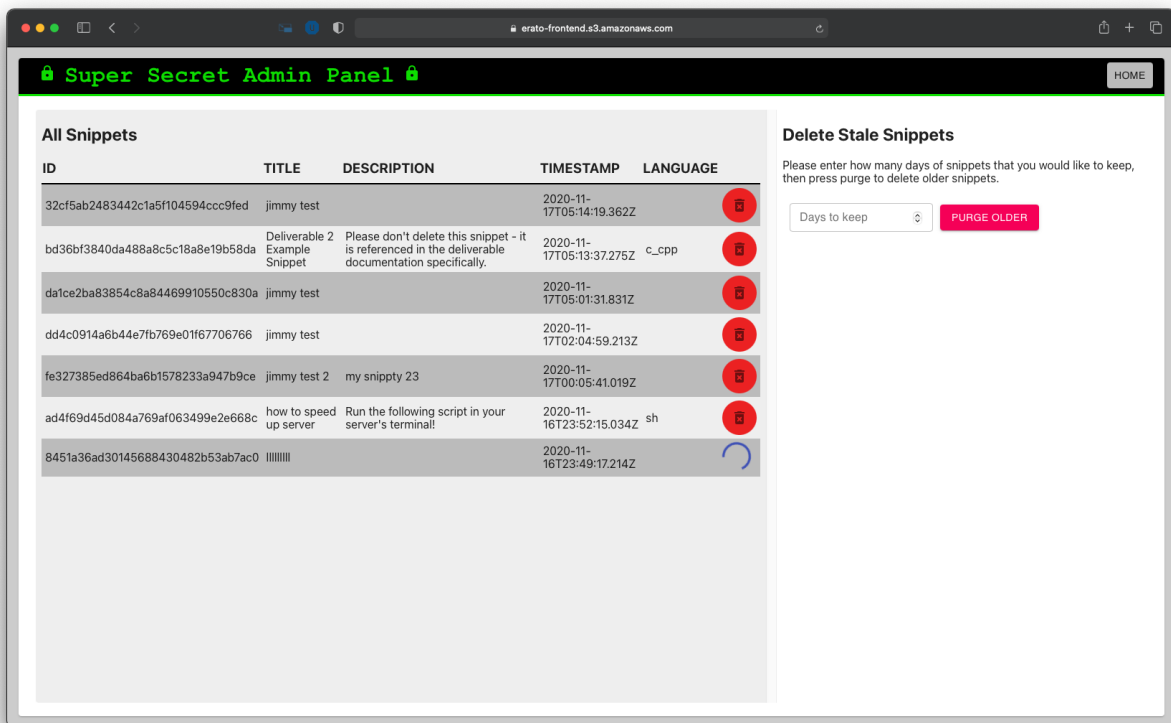
Miscellaneous Notes:
- Activity indicator

  - ○ When making requests from the frontend, sometimes there is a large delay in getting the lambda function running. To show the user that their request is being processed, there is an activity indicator that will appear next to the viewer count for various actions.
- Tracking snippet creator

- ○ CommentR tracks the snippet creator by storing a cookie on the browser of the person who created the snippet. This cookie contains a secret key used to validate all subsequent creator requests; the key is also stored in the database and is only exposed to the client application at the time of snippet creation.

Admin Page

Note: If you can't get the Konami Code working for whatever reason, the URL for the admin page is: https://erato-frontend.s3.amazonaws.com/index.html#/admin

Admin page showing the bottom snippet being deleted

Use Cases:
- List all snippets (show ID, title, description, creation date, and language)
- Delete an individual snippet from the list (click the trash can icon)
  - ○ Click the trash button. The snippet that corresponds to that button will be deleted, and the button itself will be replaced by a progress indicator. Once the snippet is confirmed to have been deleted, the table row will disappear altogether.
- Purge stale snippets
  - ○ Enter a non-negative number and click "Purge Older". All snippets created outside of that number of days will be deleted.

Code Coverage

Overall Coverage Summary

Package	Class, %	Method, %	Line, %
all classes	100% (45/ 45)	84.8% (239/ 282)	83.2% (789/ 948)

Coverage Breakdown

Package	Class, %	Method, %	Line, %
com.erato.api	100% (1/ 1)	100% (7/ 7)	92.3% (36/ 39)
com.erato.db	100% (4/ 4)	100% (26/ 26)	79.2% (118/ 149)
com.erato.handler	100% (22/ 22)	86.2% (50/ 58)	90.7% (294/ 324)
com.erato.messages	100% (1/ 1)	75% (6/ 8)	55.6% (10/ 18)
com.erato.messages.websockets	100% (6/ 6)	69% (29/ 42)	69.7% (53/ 76)
com.erato.model	100% (11/ 11)	85.8% (121/ 141)	81.3% (278/ 342)