

Assignment

Build a Presence service, similar to that of google docs, which shows people that are currently viewing a particular doc.



Requirements

This application can be built on any framework which you are comfortable with and feel is best suited for this.

1. You would need to create both backend & frontend for this application.
2. Create a basic user registration and authentication system.
3. Create a page that contains the UI element/component (*similar to the one shown towards the left in the image above*) to show the people who are currently viewing the page. This page should only be accessed by registered users.
4. UI element/component should have the following features
 1. We should be able to see their registered name, avatar, etc on hovering over the avatar.
 2. We should also be able to see who all have visited the page in the past and the last timestamp they visited the page
5. Show error page when an unauthenticated user is trying to access the page

Bonus Points

- Allow only certain registered users to access the page.
- Unit tests

Assignment Submission

- Deploy this application on any cloud provider Heroku, Zeit, etc and send us the link to test the application

- Upload the source code on Github for us to review. Make sure you follow all the best practices while using git as you would do on any production application. Git history is also important here.

Focus on getting the entire flow working - edge cases/bonus items are less important.

We are mainly trying to understand how you would architect it, the best practices you follow, and any foresight you display while making design decisions. So please keep a note of these as you proceed with this exercise.