Software Engineer Intern Hiring Assignment

Problem statement

- Create a simple website for sharing text posts (simplified version of Reddit or HackerNews).
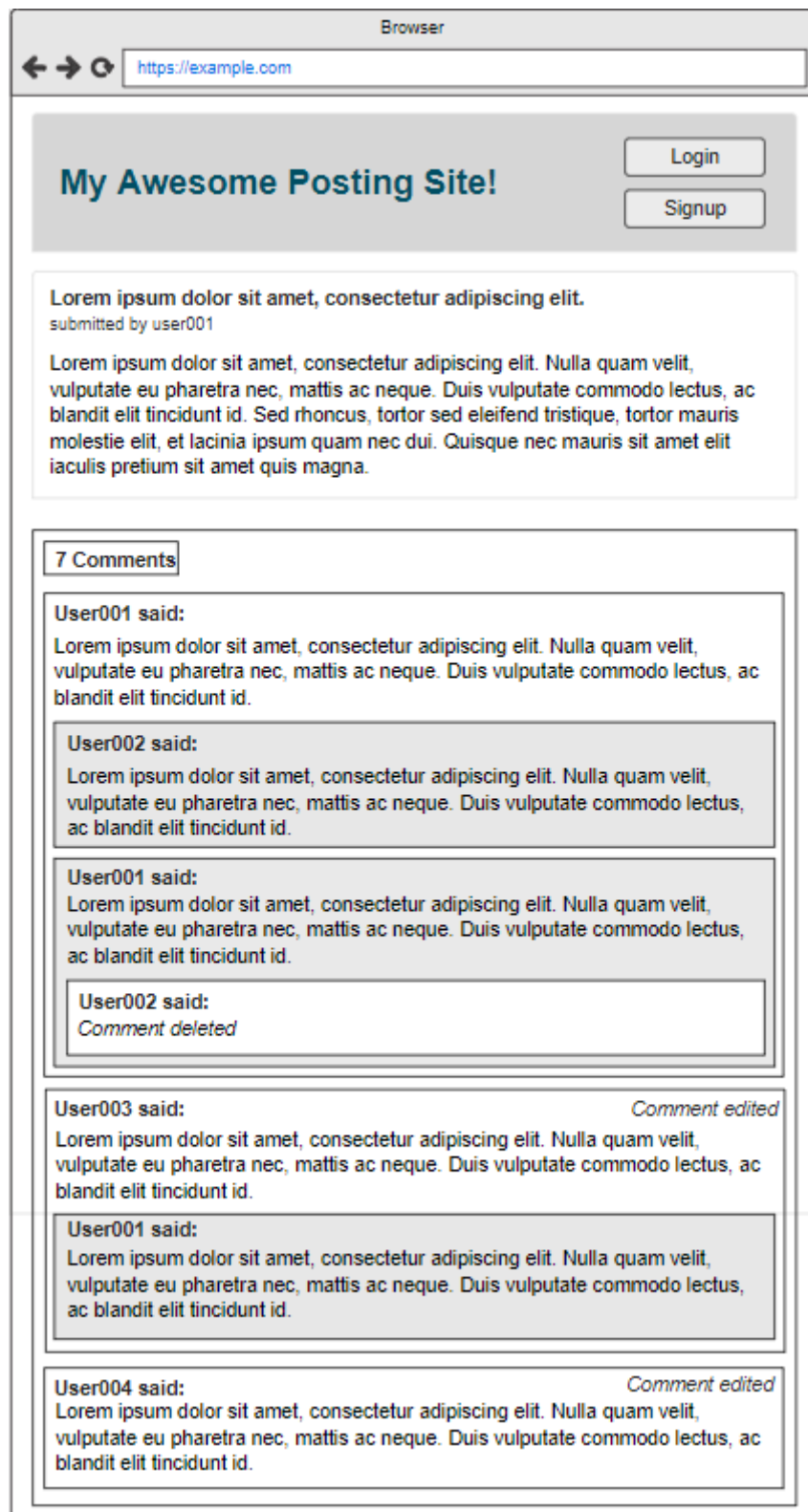- Users should be able to comment on the posts.

Expected functionality

- Users can signup and create an account
- Users can login and add new posts
- Users should be able to comment on a post
- Comments can be edited or deleted. Posts cannot be deleted.
- Comments should support nesting (with collapse/expand functionality)

You can check Reddit (https://reddit.com) and HackerNews (https://news.ycombinator.com/) to see the kind of functionality we are expecting.

NOTE: *There are no design constraints with the look and feel. Evaluation will not consider the UI/UX as long as it has minimal consistency.*

Mockup

Browser

https://example.com

My Awesome Posting Site!

Login

Signup

Lorem ipsum dolor sit amet, consectetur adipiscing elit.
submitted by user001

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Nulla quam velit, vulputate eu pharetra nec, mattis ac neque. Duis vulputate commodo lectus, ac blandit elit tincidunt id. Sed rhoncus, tortor sed eleifend tristique, tortor mauris molestie elit, et lacinia ipsum quam nec dui. Quisque nec mauris sit amet elit iaculis pretium sit amet quis magna.

7 Comments

User001 said:
Lorem ipsum dolor sit amet, consectetur adipiscing elit. Nulla quam velit, vulputate eu pharetra nec, mattis ac neque. Duis vulputate commodo lectus, ac blandit elit tincidunt id.

User002 said:
Lorem ipsum dolor sit amet, consectetur adipiscing elit. Nulla quam velit, vulputate eu pharetra nec, mattis ac neque. Duis vulputate commodo lectus, ac blandit elit tincidunt id.

User001 said:
Lorem ipsum dolor sit amet, consectetur adipiscing elit. Nulla quam velit, vulputate eu pharetra nec, mattis ac neque. Duis vulputate commodo lectus, ac blandit elit tincidunt id.

User002 said:
Comment deleted

User003 said: *Comment edited*
Lorem ipsum dolor sit amet, consectetur adipiscing elit. Nulla quam velit, vulputate eu pharetra nec, mattis ac neque. Duis vulputate commodo lectus, ac blandit elit tincidunt id.

User001 said:
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User004 said: *Comment edited*
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NOTE:

- The above mockups are only meant to serve as a reference, strict adherence to these UI/UX guides is not mandatory.
- Please use your intuition to add more UI elements as you see fit.

The workflow will be like this:

- User opens website and is greeted with the homepage consisting of all posts
- Clicking on a post should open the post with all comments.
- Users should NOT be able to comment without being signed in.
- Users may login/signup and be able comment on posts.
- Existing posts may be updated or deleted WHILE the user is logged in. A user can only edit or delete their own posts

Tech

- The website needs to be developed using **React/Angular** and **TypeScript**, with **Node/Python** acting as the backend.
- Feel free to use any database engine.

Extra

It is good, but not mandatory, to have the following:

- Containerize the website, server and the database using Docker.
- Proper project setup, README describing project, and the commands to run the application.

Deliverables

To make it easy for both you to submit your assignment, and for us to evaluate it quickly, we urge you keep these in mind when turning in your submission:

- The main deliverables are the source code (following proper hierarchy), a nice README file describing how to run your application, and brief documentation (docx/pdf) describing the technical aspects of your app.
- Your up to date resume, named as Firstname_Lastname.pdf
- This assignment document.
- Put all these in a folder, upload this folder to Google Drive, and share the link (choose the option of view access to anyone who has the link) to this folder with us in your submission email.
- In your email, please ensure that the subject follows this convention: "LPU November: Firstname Lastname".
- In the body, please include the link to the Google Drive folder including all deliverables.
- Please DO NOT send any deliverables as attachments, or send ZIP/RAR/7z archive files.

Help

While attempting the assignment, should you have any questions, please drop a mail to help-me-help-you@datagrokr.com with a clear description of the issue/question. Please remember to Google the issue/question before asking us!