

LogViewer

Description

Implement a Web server + UI with the following requirements:

There will be a login page. Users are not able to access the home page unless they are logged in.

`http://0.0.0.0:5555/login`



The image shows a login form within a rectangular border. It contains two input fields: the first is labeled 'Username' and has a placeholder text 'Username'; the second is labeled 'Password' and has a placeholder text 'Password'. Below these fields is a blue button with the text 'Sign in' in white.

2 users are predefined in the backend:

- User 1:
 - username: **user1**
 - password: **user1**
- User 2:
 - username: **user2**
 - password: **user2**

Upon a successful login the user will be redirected to the home page. If the login is not successful an appropriate error message should be displayed.

You need to implement RESTful APIs in the backend server for user authentication and management.

On the home page, the user have an option to select a service from a dropdown list:

1. Service1
2. Service2

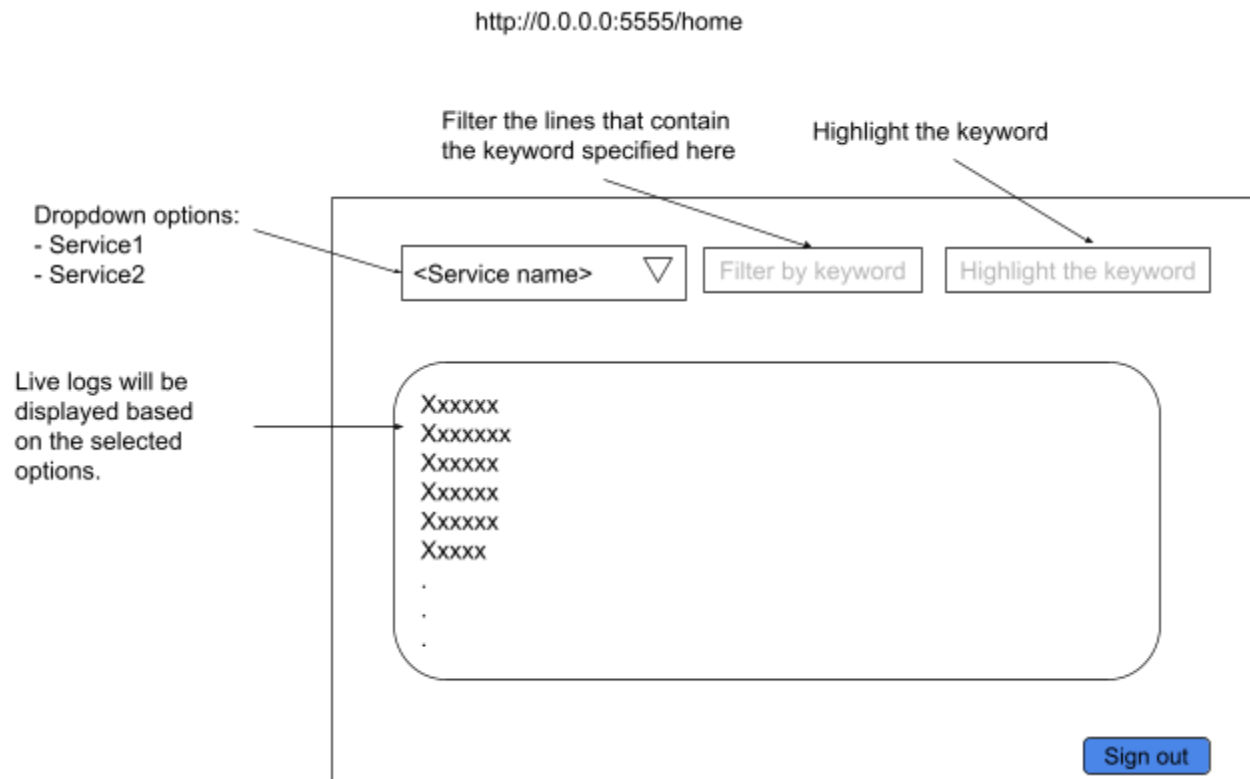
Once the service is selected the logs for that service will be displayed in the designated box.

The logs within the box should be updated live while the user has an option to scroll through them.

The user can specify a keyword so that only the lines that contain that keyword are displayed in the box.

The user can specify a keyword so that keyword is highlighted in the box while all the logs are displayed in the box.

You need to implement RESTful APIs to get the logs from the backend server.



The user should be redirected to the login page after they sign out.

Optional feature

There will be two roles and users can have different privileges based on their roles.

2 roles are predefined:

- **normal** - has access to Service1 only.
- **admin** - has access to Service1 and Service2.

user1 is defined with a **normal** privilege. **user2** is defined with **admin** privilege. Therefore, **user1** can only view the logs from Service1, while user2 can view the logs from both Service1 and Service2

How to emulate Service1 and Service2?

To emulate Service1 and Service2, make sure the included python files `service1.py` and `service2.py` are being run.

Which programming languages/frameworks Can I use?

Python, Angular, HTML, Bootstrap, CSS/SASS/SCSS, REST, Nginx