

What and how the application works?

The application has three html pages named newsPaper.html , liveEvent.html, and login.html. Readers can read news and live events if there is latest not seen live events posted by the journalist, otherwise, readers see “There is nothing new” message on the reserved portion of the newspaper page for live event message. The second page, liveEvent.html is only accessible for journalists to post live events. This page has one text field and one button. When the button post clicked, then the method doPost of the EventServlet will trigger and store the event in the list. If the journalist is not logged in, he/she will redirect to login.html and prompts to enter his/her password. The initiation of this application is to fetch not seen live events periodically from the list I created to store events that are published by journalists.

The dedicated portion of the page to display live events in newspaper.html will be updated periodically using ajax. There is also an external javascript file named ajax.js. This's a script where ajax makes a get request to the doGet method of EventPostServlet and this method returns JSON data and then the intended portion of the page will be updated. The javascript file, ajax.js is included in newsPaper.html. The class EventPost has an attribute id and event. The list that is going to store the event is of type EventPost. There is a hidden input field that is intended to take the id of the event returned from the doGet method of the EventPostServlet and later to pass the value of this hidden field as a parameter in an ajax GET request. By doing so, we can protect previously displayed events not to be displayed on the newspaper page. If the token passed by ajax GET request to the servlet is equal to maxId(There a function inside EventPostServlet to find the maximum id from the list that stores events) of in the list, then the application returns a “ There is nothing new” message, and the returned String data will be parsed to JSON and placed accordingly. Initially, the token is 0.