

Project Proposal 3

Global Software Engineering Seminar

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Version 1.0

Project Title

Second screen web application for live events

Project Description

Your task is to create a web application that allows people to comment live events (e.g. football games, music concerts, lecture sessions).

Use cases that have to be implemented:

1) Authentication/registration

Users should be able to sign in using their twitter accounts or created and activated internal account.

2) Event creation

Users must have an opportunity to create own event and allow access only for invited users. However, it is possible to host an open public event. The creator of the event should be able to add tags to the event (at this point the application should provide auto completion with the tags that already exist in twitter), define the location of the event.

3) Adding new comment

Users can add comments to accessible events. Moreover users should have the possibility to share their comment directly to twitter.

4) Event dashboard

An event dashboard page should contain two streams of comments: internal and external. Comments should be ordered by timestamp, and appear continuously on the page without page refresh.

The internal stream shows all incoming comments from participants that joined this event.

The external event stream shows all the tweets being posted with the tags assigned to the event and tweets from locations close to the event location.

There should be an opportunity for each user to filter/customize the external stream for himself or herself (e.g. remove existing tags, add new tags, exclude/include tweets from other locations).

Users have the possibility to drag and drop tweets from external to the internal stream. In this case, there should be an opportunity for the user to republish a tweet not only in the internal stream but also to retweet in his/her twitter account.

5) Small screen responsiveness

The web application has to be responsive for using different screen sizes such as mobile devices.

6) Event statistics

Develop visualizations which describe the event using collected data. Make sure that the creator of the event as well as participants will be interested to get the generated output. For example, use semantic analysis of the tweets to show the sentiment (positive or negative comments) towards the event. The result of such analysis should be shown in an adequate visualization.

7) Map integration

Users can see all accessible events on a map. By clicking on one event, the user can join the event (in other words: be redirected to the event dashboard).

8) Monetization

Work out some possible monetization for your web application.

Project Sponsor

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