Assignment 9 (HF)

Due: Mon 12.01.2014; 16:00h (4 Weeks)

Task 1: AJAX Mashup

Create a multimedia mashup using the technologies that you have learned in this course so far. That includes HTML, JavaScript (jQuery, NodeJS, Express, MongoDB) or PHP. Show the users a collection of multimedia content as a Single-Page-Application (SPA). All they need to do is provide a search term and your app fetches the content. Possible contents are videos, images, text, tweets – be creative!

Your submission should have the following features:

a) **Query-Box**. The user can enter a search term in a text box. As the user types, the app already queries content asynchronously (e.g. images).
b) **Services**. Use at least three of the following services:
   a. Twitter
   b. YouTube
   c. Spotify
   d. Flickr
   e. LastFM

   Some of the APIs are not accessible without authentication. Create a server-side back end that handles the API requests and passes the responses back to the clients. An example of how to do this with twitter is shown in the slides for tutorial 9. If you have questions, please come to the tutorials on Monday 22nd December.
c) **Loading indicators**. Provide visual feedback for content that is being fetched asynchronously. Use gifs or other established loading indicators.
d) **Styling**. Show off your CSS Skills and create a modern layout. If you need some inspiration for the look and feel of great SPA design, go to http://onepagelove.com/ If you use services that require authentication, you might want to upload your web app to a webserver.
a) NodeJS apps can be deployed to, e.g., Heroku: https://www.heroku.com/
b) Upload PHP apps to your personal space at php.cip.ifi.lmu.de (see tutorials 1 & 2).

Please tell us in your submission where you've uploaded your mashup.

Further notes:

- Please make sure to comment your code sufficiently to facilitate correction of your submission.
- Incomplete submissions are welcome. However, please make sure to include a "README" text file to tell us how far you have come.

The media informatics and human-computer interaction groups wish you happy holidays!