SE 344 Web Engineering

Schedule   Lecture Slides   Project

Individual Information Aggregation Assignment

For this individual project, you will be pulling in information from a variety of information sources. Your information should include US News, World News, Sports, Weather, and Technology. You will chose the precise sources that you use. The only requirements for these feeds are that they are reasonably well known and current news feeds (don't choose a small home-grown feed or anything like that – think CNN, BBC etc....). You may share the names of these sources and helpful links with your classmates.

Requirements

Functional

- All information should be shown in a single aggregate news list
- The user should be able to decide to show only certain news feeds. This should be done in real time.
- The user should be able to 'favorite' stories. They should be able to see a list of their favorite stories and remove them from the list.
- The single page application should be aesthetically pleasing, clean and easy to use.
- Data storage should be done in a local XML/JSon file. Relational SQL and MongoDB are not allowed. You also may not use .csv, or flatfiles.
- You must ensure that your application has proper responsive design. I will be using several recent browsers and mobile devices to test your site.
- User's should be able to create new accounts. This means that someone should be able to visit the page, and select that they want to create a new user. They should create a new username and password. Security is not an issue here, so don't worry about storing user names/passwords in XML/JSON. You do not need any forgot password reminders.
- Use cookies/HTML5 to remember the last time a user visited the page. This information should be shown on the main page ("Your last visit was on mm-dd-yyyy HH:mm:ss")
- Optimally, the site should use AJAX to eliminate the need for refreshing the page. All information should be shown in real time.
- The most current items should be shown at the top of the page. As you scroll down the page, the items should get older (think how Twitter shows tweets.)

Non-Functional

- You must use RSS to collect your data.
- You must host your page on your RIT SE public_html personal directory.
  - Instructions for using this resource are provided [here](#).
  - You cannot use your team's project VM or any other hosting resource. You are limited in what you can install in our accounts, but you should have the ability to create the necessary project components.
  - It is very important that you get your deliverable working on your account. You will lose a substantial amount of points if you get the application working in another location, but it will not work on your account. You are highly encouraged to test your submission in this location early and often.

Submit this document as a .pdf with the rest of your submission in the appropriate dropbox.

Notes

- This is an individual project, you may not work with anyone else. Sharing of source code is not OK. However, you may share basic ideas and external links with your classmates.
- When in doubt about a requirement, ask.
- A large portion of this project is external research. You will need to spend some time researching the area.
- Feel free to explore, learn and try different technologies (as long as your project meets the desired expectations). Your most significant technological limitation is what you can run on your personal SE space.
- The more robust your make your application, the better the grade you will get. Do more than the minimum.

Evaluation Methods

Your project will be evaluated in a variety of areas. The following rubric will be used: (the instructor reserves the right to deviate from this scoring system at any time)

Functional Requirements

Aspect	Rating (0-5)
Aesthetics	
Ability to login	
Users can create new accounts	
No need to refresh page (proper use of ajax)	
Cookies/HTML5 (save and display date)	
Shows all feeds properly (US News, World News, Sports, Weather, and Technology)	

Can favorite articles	
Can customize news list	
Proper implementation of responsive design.	

Non-Functional Requirements

Aspect	Rating (0-5)
Application is located on server	

Helpful Links

These are just some possible links. Feel free to use any others from the web that you find useful.

- Adding RSS Information
- Ajax
- Saving Information Using XML
- Cookies
- HTML5 Local Storage

Submission Instructions

This is intended to be an individual activity. although you may collaborate with other classmates and are obviously expected to use external resources. Your submission in the appropriate Mycourses dropbox should include:

1. A URL with a path to your application. (Should be http://www.se.rit.edu/~XXXXX/) link.
2. A zip file containing your project source code.
3. A ReadME file (if applicable. It is NOT required, but is recommended if you have functionality you feel you need to explain.)
4. A link to your version control repo (my GitHub name is dan7800 if it is a private repo)
5. Be sure to submit your concluding document in the appropriate dropbox.