

CS 491 Homework

Web APIs

1 Overview

Your responsibility in this homework is to explore APIs for web services. You will do so by writing an app that sends requests to your favorite web service and incorporates the results into your app's interface.

2 Requirements

To complete this homework, please do the following:

1. Have your app submit requests to some existing web service. The results of your request must be processed and presented in a structured way (for example, a `ListView` to navigate records or an image grid to display a gallery).
2. The web service must either a) provide an Android library for you to add to your project or b) handle HTTP requests (RESTful or HTTP POST/GET) and return results in a structured data transport language, like XML or JSON. Use a real web service; scraping content from HTML is not allowed. Facebook, Google Search, Flickr, and Twitter are common examples of legitimate web services.
3. Send your instructor an web link of your choosing and a title. (For example, "ContextBot - <http://xkcd.com/1085/>".)
4. Add a `ListActivity` to your app that retrieves the contents of <http://www.twodee.org/teaching/cs491-mobile/2012C/homework/links.json> and displays each link as an item. When an item is clicked on, issue an `Intent` to visit the page.
5. Conduct all network transactions outside the UI thread.
6. Export your project to `W:\cs\CJohnson\cs491\webapi.zip`
7. Document your app in a post mortem on the course blog. Describe the app's purpose, include at least two screenshots, and describe what lessons you learned in its development. Categorize your post `fall 2012`, `post mortems`, and `cs491 mobile`. Publish your post. Check that a link appears on the main course page.

3 Submission

Publication of your post mortem finalizes your submission. Revisit the syllabus for the rules on submission and what happens when you don't meet requirements.