

## Project 1: News Finder

Due: February 5, 2019 (midnight)

### Objectives

In this project, you will implement a simple Web application `NewsFinder`, coded in Java, which searches for and displays recent news. This project should utilize a RESTful news service, available at <https://newsapi.org/>. This project will allow you to get “hands on” experience with utilizing RESTful web services.

### Requirements

1. Your Web application should have a simple, form-based interface, where the user should be able to type in search terms to be used in finding the recent news articles. If you'd like, you may use JavaScript or one of the JavaScript libraries, such as jQuery, to implement the user interface.
2. After entering the search terms and submitting the form, your Web application should execute a REST call on the newsapi.org service to search for the recent news using the provided search terms. You will have to register with the service to obtain an apiKey.
3. The information about the located news articles (not the actual articles) should then be displayed for the user. Each article should include some basic information, such as the date, title, and perhaps a picture, and it should include a link to the actual article (the link will be included in the search results from newsapi.org).
4. Your Web application must be implemented in Java, with the use of our JBoss WildFly installation on `uml.cs.uga.edu`. It is located in `/opt/jboss` (you must be logged in to `uml`).
5. You must use either RESTeasy (client) or Retrofit library (<https://square.github.io/retrofit/>) to implement your application.
6. The name of your Web application (as deployed on WildFly on `uml`) must be of the form  
`newsfinder_firstname_lastname.war` (with your actual names in it)  
and the form to start the news search must be placed in the (static) `index.html` HTML file included with your Web application.
7. You must include a `README.txt` file detailing how to compile deploy, and use your application, as well. You must **clearly show the exact commands** to compile and deploy your project on `uml`.  
The `README.txt` file must list the exact URL to access your `NewsFinder`, as deployed on `uml`.  
You may provide an `ant` build file(s), if you want.
8. Copy your entire project directory to `nike` (e.g., using the `scp` command) and submit your project (well commented) program, including the whole directory to user `cs8350` on `nike` (it will not work on `uml`) using the `submit` command. For example:

```
$ submit myproj1 cs8350
```