

Assignment 2 Part A

100 pts

This assignment is the first part of a three-part assignment which will teach you about Web service abuse. For this assignment, you will post spam to a bulletin board Web site we operate, and which we give you official permission to spam.

1 Target Web Service

Bord is a Web site that allows anyone to post comments on a publicly-visible bulletin board. Each of you will be attacking your own instance of the Bord site at:

`http://bord.ece498kl-fa2018.org/netid/version/`

where *netid* is your Net ID, and *version* is “v1” for problem 1, “v2” for problem 2, and “v3” for problem 3. Note that each of these is a separate partition of the Bord site.

2 Problem 1: Naive Spamming

Post 1,000 messages promoting your Web site from Assignment 1 to your instance of Bord at `http://bord.ece498kl-fa2018.org/netid/v1/` (where *netid* is your netid). For example, you could post if you were trying to advertise <http://student1.sigpwny.org/>:

Get your trimpuny at <http://student1.sigpwny.org/> !

Note that Bord automatically makes anything that looks like a URL into a clickable link. Specifically, any sequence of characters separated by whitespace that starts with “http” or “https” is considered a URL. You should confirm that clicking on the link on Bord does indeed take you to your site. You will only get credit for messages with valid (browser-clickable) links to your site. Version 1 of Bord has a simple anti-spam defense: it won’t let a user post the *same message* over and over. You will need to get around this to post 1,000 messages linking to your site. *This problem is worth 30 points.*

3 Problem 2: URL Filtering

Posting the same URL repeatedly is very easy to identify as spamming, so the second version of Bord at `http://bord.ece498kl-fa2018.org/netid/v2/` will reject attempts to post the *same URL* more than 5 times, or a URL with the *same domain* more than 50 times. Post 1,000 messages promoting your Web site from Assignment 1 to your instance of Bord at `http://bord.illinois.edu/netid/v2/`. *This problem is worth 30 points.*

4 Problem 3: User Rate Limits

Version 3 of Bord at limits each user to 10 posts per day containing a URL. There are no limits on the number of messages not containing a URL. Post 1,000 messages promoting your Web site from Assignment 1 to your instance of Bord at <http://bord.ece498k1-fa2018.org/netid/v3/>. *This problem is worth 40 points.*

5 Submitting Solutions

You do not need to submit anything for this assignment. You will be graded on the contents of your Bord site instances. If you would like to use one or more of your three 24-hour extensions, *you must email the instructor and the TA*; we will then check your site at the end of the extension. You may *not* discuss your solution with other students until three days after the assignment deadline.