

Assignment 4 – jQuery

due at 23:59 on Tue Mar 31 (100 points)

For this assignment, you will use jQuery to interact with my CS120 server's "guest book" API. Your Webstorm project should be called `assn4-mesg`. You can access the simple user interface I demonstrated in class: <http://cs120.liucs.net/assn4>.

The available API includes these four services:

- **GET** `http://cs120.liucs.net/assn4/messages.json` fetches all the messages in JSON format, in reverse chronological order. Each message is stored as an object like this:

```
{ "text":      "Hello class this is a test!"
  , "sender":   "Chris",
  , "timestamp": "2015-03-16T19:27:04.987Z"
  , "mood":     "Tired"
}
```

- **POST** `http://cs120.liucs.net/assn4/messages.json` saves a new message. You must send the data in JSON format, but without the "timestamp" (which is added automatically). The "mood" is optional. Here is a working example, using `curl`:

```
curl -H 'Content-Type: application/json' \
      -d '{"sender": "CL", "text": "Hi!"}' \
      http://cs120.liucs.net/assn4/messages.json
```

- **GET** `http://cs120.liucs.net/assn4/moods.json` returns an alphabetical list of all the moods currently being used in messages on the server. The result, for example, could be:

```
["Curious", "Hacking", "Hungry", "Jittery"]
```

- **GET** `http://cs120.liucs.net/assn4/complete/TEXT` — replace "TEXT" with any word fragment, and this returns an alphabetical list of up to ten words that have the fragment as a prefix. For example:

```
curl http://cs120.liucs.net/assn4/complete/kar
["karachi", "karamazov", "karate", "karen", "karl", "karma", "karol", "karp", "karyatid"]
```

You should incorporate these services into a single page that uses jQuery to:

1. Refresh the displayed messages every 10 seconds, so new messages appear automatically.
2. Offer completions for moods currently being used (using `<datalist>`), but also allow free-form input of new moods.

3. Post a new message to the server, and then refresh the message list.

[Demonstration video](#) [9:32]