11/30/18

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Thinkful: Asynchronous client-side web apps

Project 3: Reading API documentation

**Assignment 3**

*Visit the meetup.com API docs found here:*[*https://www.meetup.com/meetup\_api/*](https://www.meetup.com/meetup_api/)*.*

Answer the following questions:

1. Does this API require authentication?
   * Meetup API supports authentication of third-party applications using the “OAuth protocol” & AI key signatures. Multiple requests require authentication, especially user-specific ones  
     (ex unread-messages, saved-events)
2. Does this API support CORS?
   * Yes!
3. Find the events search endpoint documentation. Describe in detail the response format of the events search endpoint.
   * GET https://api.meetup.com/find/upcoming/events
     + Returns a list of upcoming events
       - Default: events returns will be based on authenticated member’s location. Can be customized with valid lat or lon parameter.
     + Response returns a list of event objects and the resolved city.
       - Request URL (example gave lat, lon & page)  
         https://api.meetup.com/find/upcoming\_events?&sign=  
         true&photohost=public&lon=75.1652&page=2&lat=  
         39.9526
       - Returns a list of event objects and the resolved city:  
         https://api.meetup.com/find/upcoming\_events?photo-host=public&page=2&sig\_id=40490692&lon=75.1652&lat=39.9526+&sig=c5f1a2eb5a70b44247fe40e9fa4764516d8e11b3
         * photo-host (image of event host if exists and is public)
         * page (target minimum number of events to return in a single page of results)
         * sig\_id (could not find, but looks like another lon/lat, so maybe the location of the event result)
         * sig (event’s unique alphanumeric identifier)

1. What are the limitations placed on the number of requests that can be made?
   * “We limit the frequency at which the API will produce successful responses to a single client.” Specifics (actual numbers to go with time frame & response/requests) I could not find. Current rate limit status is checked through three X-RateLimit HTTP headers:
     + X-RateLimit-Limit: max # of requests in a window of time
     + X-RateLimit-Remaining: remaining number of requests in the current rate limit window
     + X-RateLimit-Reset: the # of seconds until current rate limit window resets
2. List the errors that you can expect when making calls to this API.
   * 400 Bad Request
   * 401 Unauthorized
   * 429 Too Many Requests
   * 500 Internal Server Error