

JAVASCRIPT DEVELOPMENT

Sasha Vodnik, Instructor

HELLO!

1. Pull changes from the `svodnik/JS-SF-8-resources` repo to your computer
2. Open the `starter-code` folder in your code editor

LEARNING OBJECTIVES

At the end of this class, you will be able to

- ▶ Generate API specific events and request data from a web service.
- ▶ Implement a geolocation API to request a location.
- ▶ Process a third-party API response and share location data on your website.
- ▶ Make a request and ask another program or script to do something.
- ▶ Search documentation needed to make and customize third-party API requests.

AGENDA

- **Configure 500px account and tools**
- **Implement authorization**
- **Implement geolocation**
- **Create and send API call**
- **Handle API response**

INTRO TO CRUD AND FIREBASE

WEEKLY OVERVIEW

WEEK 7

Asynchronous JavaScript & Callbacks / Advanced APIs

WEEK 8

Project 2 Lab / Context and this

WEEK 9

CRUD & Firebase / Deploying your app

EXIT TICKET QUESTIONS

1. I'm still having trouble updating the DOM (i.e. HW 5, survey questions) in a dynamic way - does this come with practice, or are there other courses that focus more on this?
2. when would you use traditional callbacks vs. callbacks with promises
3. A few questions around whether the convention for (err, callback) in the 3rd parameter, its a node.js convention, or generally just a preference in any callback function
4. How get, fetch, ajax, and HTTP concepts relate to each other and when to use each

EXIT TICKET QUESTIONS

5. If using `$.get()` instead of `fetch`, how do we get the result into a working JavaScript object that we can drill into to find the data we want (outside of the `$.get()`)?
6. very unsure of what callbacks were doing and wouldn't be able to do it on my own. still need more practice with jQuery.
7. Why are we learning `fetch` if `$.get()` and other ajax functions seem superior in every way?
8. I'm still having trouble from the last homework reaching weather unlocked. I'm getting 'No 'Access-Control-Allow-Origin' header is present on the requested resource.'

JQUERY \$.GET()

```
$.get(url).done(function(data) {  
    console.log(data.responseJSON);  
}).done(function(data) {  
    // manipulate the DOM  
})  
.fail(function(data) {  
    // handle lack of data in UI  
});
```


EXIT TICKET QUESTIONS

9. Still unclear on why all buttons were removed in the homework file, and why the original two items didn't work - the solution code seems to use a lot of extra stuff like the "remove" class. Were we supposed to also write the functionality for removal?

JAVASCRIPT DEVELOPMENT

ADVANCED APIS

ACTIVITY



TYPE OF EXERCISE

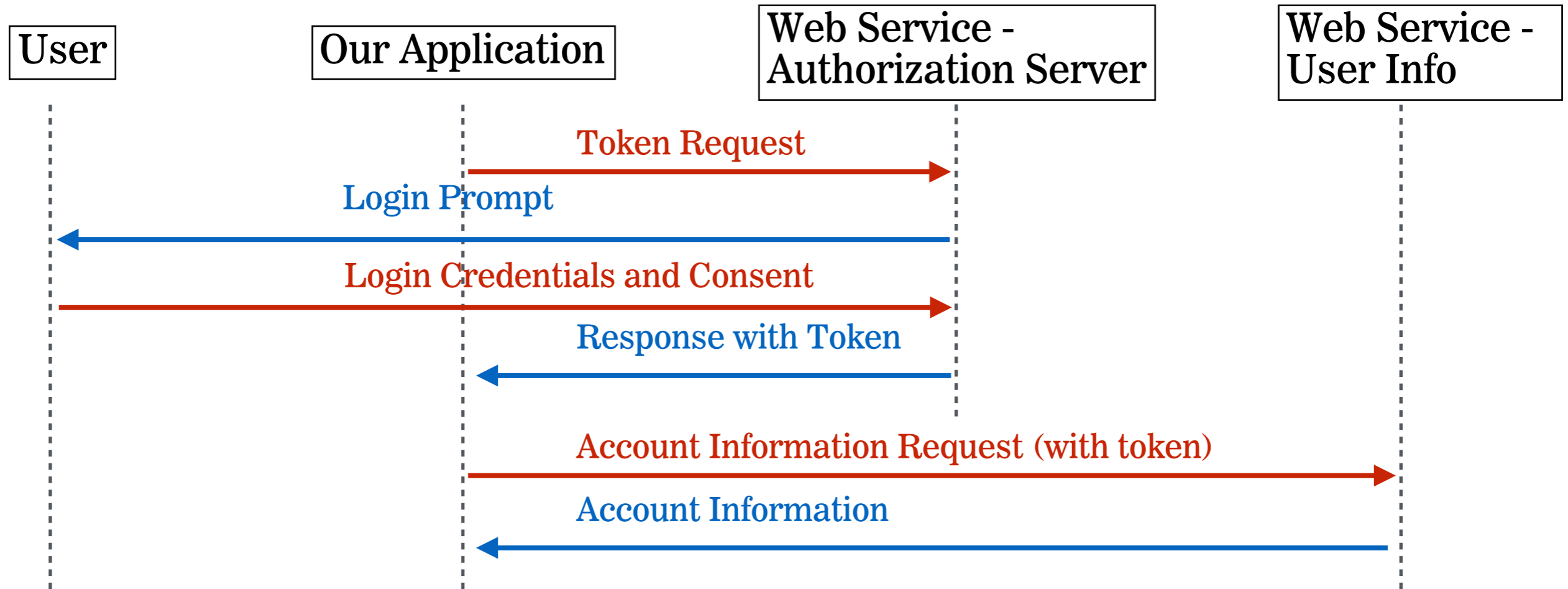
▶ Turn & Talk

TIMING

2 min

1. Think about a time you've granted an app access to your information from a different web service.
2. Find a partner or two, share your answers, and discuss.

OAuth Flow



BUILDING OUR APP

1. Configure our systems for development and testing, and review 500px developer configuration
2. Create our initial view
3. Get user's location
4. Create request to 500px with user's location info
5. Parse API response and add returned images to view

BUILDING OUR APP

Our app



2 & 3

- Configure initial app view
- Get user's location

4

▸ Create request containing user's location info



- Parse API response
- Add returned images to view

5

500px.com server



ENDPOINTS

- **Examples from openweathermap.org**

By geographic coordinates

API call:

```
api.openweathermap.org/data/2.5/weather?lat={lat}&lon={lon}
```

Parameters:

lat, lon coordinates of the location of your interest

By city name

API call:

```
api.openweathermap.org/data/2.5/weather?q={city name}
```

```
api.openweathermap.org/data/2.5/weather?q={city name},{country code}
```

By ZIP code

Description:

Please note if country is not specified then the search works for USA as a default.

API call:

```
api.openweathermap.org/data/2.5/weather?zip={zip code},{country code}
```

Exit Tickets!

(Class #12)

LEARNING OBJECTIVES – REVIEW

- Generate API specific events and request data from a web service.
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NEXT CLASS PREVIEW

In-class lab: Feedr

- › Familiarize yourself with the API documentation for news sources.
- › Fork and clone your starter code.
- › Strategize ways to hide the loader and replace the content of the `#main` container with that of the API.
- › Look up other news sources that might be useful for the project.
- › Build content programmatically using ES6 template literals

Q&A