

JAVASCRIPT DEVELOPMENT

Sasha Vodnik, Instructor

HELLO!

1. Pull changes from the `svodnik/JS-SF-9-resources` repo to your computer
2. Open the `12-advanced-apis > 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

ADVANCED APIS

WEEKLY OVERVIEW

WEEK 7

Asynchronous JavaScript & Callbacks / Advanced APIs

HOLIDAY WEEK — NO CLASS!

WEEK 8

Project 2 Lab / Closures & the module pattern

WEEK 9

CRUD & Firebase / Deploying your app

EXIT TICKET QUESTIONS

1. Is data the response from the api call? So when we do `function(data)` and `console.log(data)` do we have to use the word data?
2. Does having more apis make your website slower?

JAVASCRIPT DEVELOPMENT

ADVANCED APIS

ACTIVITY



EXERCISE

TYPE OF EXERCISE

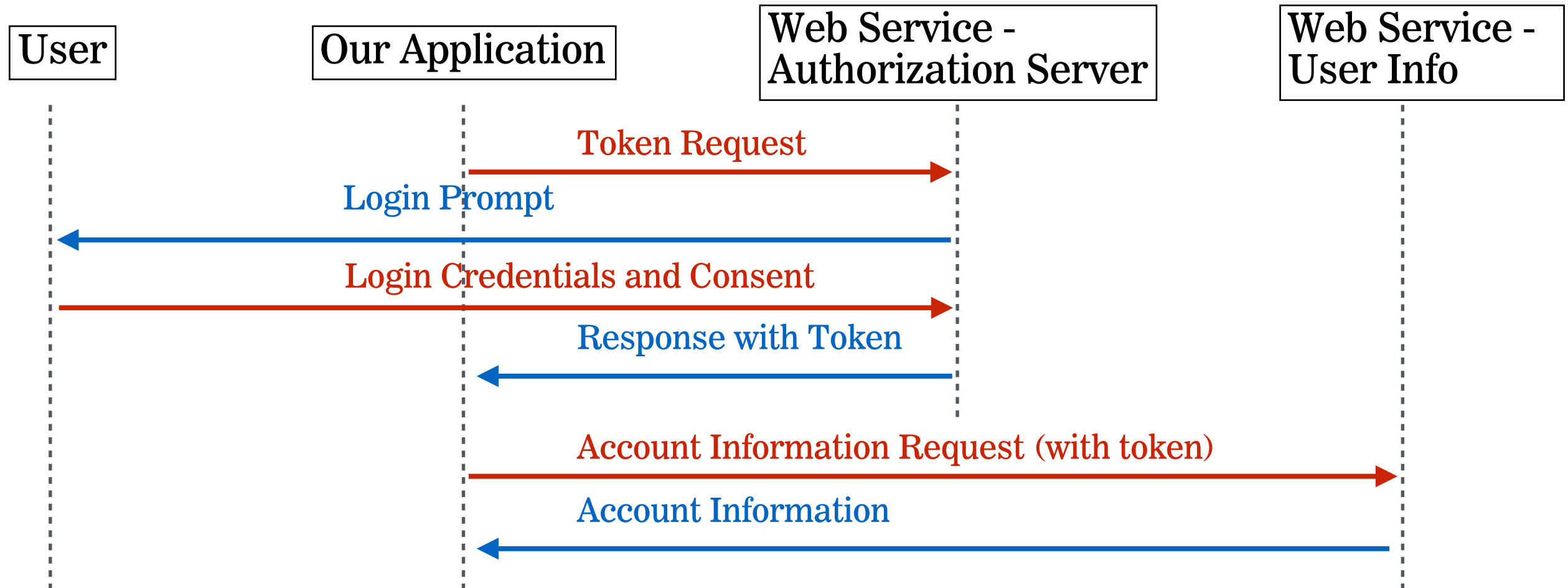
► Turn & Talk

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}
```

EXERCISE



EXERCISE

OBJECTIVE

- ▶ Search documentation needed to make and customize third-party API requests.

TIMING

4 min

1. Read the documentation for at least 2 endpoints from the list at <https://github.com/500px/api-documentation#endpoints>
2. Identify an endpoint that will let us find photos based on a user's location.

Create Conditional Views

EXERCISE



EXERCISE

OBJECTIVE

- ▶ Write code to change the view of your single page app after user login

TIMING

5 min

1. Add code to your application within the section that runs after the user logs in.
2. This code should hide the login prompt and instead show the section of the page that will display the results of our API request.
HINT: This involves DOM manipulation. Think about how you could use the jQuery `hide()` and `show()` methods.

Get User's Location

Call the 500px endpoint

Handle the Response

EXERCISE



EXERCISE

OBJECTIVE

- Process a third-party API response and share location data on your website.

TIMING

15 min

1. Create a `handleResponseSuccess` callback function to do the following:
 - Iterate through your response data, creating an `img` element each time with the given image URL from the API.
 - Add the class `image` to the `img` element
 - Append the new `img` element to the element with the class `images`, which already exists in the HTML.

Customize Search Results

EXERCISE

OBJECTIVE

- Search documentation needed to make and customize third-party API requests.

TIMING

until 9:20

1. Search the API documentation as necessary to modify your API request to do the following:
 - Sort photos results by highest rated first
 - Return 28 photos instead of the default 20
2. BONUS: Display the current user's information on the site after a successful login. You'll need to look into the Users API or JavaScript SDK documentation to accomplish this.

If your bonus code isn't working, try 1) disabling extensions, or 2) allowing third-party cookies (In Chrome, Preferences (scroll to bottom) > Advanced > Privacy & Security > Content Settings > Cookies > turn off "Block third party cookies")



EXERCISE

Exit Tickets!

(Class #12)

LEARNING OBJECTIVES – REVIEW

- 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.

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