



## Front End 101

### Lesson 10: Designing a Front-End for an Existing API

#### Schedule

##### *Part 1 - Using APIs*

1. What is an API?
2. HTTP Request Types
3. RESTful routing
4. Scenario
5. Art Share
6. Getting Started
7. User Login, logout
8. Class Exercise

##### *Part 2 - Advanced Exercise*

#### Homework

##### *Goals*

1. Learn how to create a front end for an API that has already been developed and returns JSON
2. Be able to build a one-page web application

##### *Assignment*

1. Finish up the exercise from class. If you need more features to implement, here are some more "bonus" features:
  - a. Have a page to show a list of other users and a sample of some of the art work that they have created, a way to "explore" other art
  - b. Create a page to list all of the art in the system that, when a piece of art is moused over, shows more information about the user that added it to the system
  - c. Put all functionality on the same page and allow the app to do all functionality without a single page refresh

##### *Recommended Activity*

Read up on why systems are developed this way, with a *Service Oriented Architecture*:

[http://en.wikipedia.org/wiki/Service-oriented\\_architecture](http://en.wikipedia.org/wiki/Service-oriented_architecture)

<http://devblog.songkick.com/2012/08/02/soa-what-our-services-look-like/>

<http://stackoverflow.com/a/16627414>