CS4220
ALBERT F. CERVANTES
CYDNEY AUMAN

# CURRENT TRENDS IN WEB DESIGN AND DEVELOPMENT

## **AGENDA**

- Command-Line Interface (CLI)
- Scaffolding a Vue Application
- Single-Page Components
- Simple State Management

## CLI

- Vue provides an official CLI for quickly scaffolding Single Page Applications.
  - ▶ Batteries-included build setups for a modern frontend workflow.
  - ▶ Hot-reload, lint-on-save, and production-ready builds.
- npm install -g @vue/cli
  - https://github.com/vuejs/vue-cli
- npm install -g @vue/cli-init
  - https://github.com/vuejs-templates/webpack-simple

# **SCAFFOLDING AN APP**

- vue init webpack-simple my-project
- cd my-project
- npm install
- npm run dev

# SINGLE FILE COMPONENTS

- https://vuejs.org/v2/guide/single-file-components.html
- Single-file components in Vue are made possible due to build tools like Webpack and Browserify.
  - These tools work alongside the vue-loader or vueify packages respectively to compile .vue components to plain JavaScript modules that can be understood in browsers.
- With the single-responsibility principle, we'll be able to componentize our application with the help of single-file components.

# SIMPLE STATE MANAGEMENT

- State means data.
  - State management often refers to the management of application level data.
- Simple state management can be performed by creating a store pattern that involves sharing a data store between components.
- The store manages this state with its actions/mutations/etc... and simply passes the same data to multiple components.

## **EXAMPLE**

- Create a SPA that allows Users to add Todo items to each of the courses they are enrolled in.
- A User should be able to add new Todos, and mark Todos as done
- Lab
  - Allow a User to Delete any Todo
  - Allow a User to Edit any Todo
  - Allow a User to Archive all completed Todos
    - Archive simply means remove all Todos that are completed so they do not crowd the screen.