Lecture notes:

* Technologies Used
* Python
  + Virtualenv
  + Flask
  + Flask-Login
  + Flask-SQLAlchemy
  + Flask-Cors
* JavaScript
  + es6 syntax
  + Vue.js
    - Components, data-binding, EventBus/Events
  + Vue-Router
  + Mapbox-GL, Mapbox-GL-Vue
  + Axios
  + Vue-typeahead
  + fontawesome
  + @vue-cli
  + Webpack (this is abstracted by @vue-cli)
    - Babel, uglify, etc
* Database
  + SQLite
  + REST API – (Python Flask)
  + Brewery API
    - Breweries, Beers, Categories, Styles
      * Query and CRUD operations
  + Security API
    - Create User, Login/Logout
      * Logged in users can add/edit data
      * Verification email activation
* Application Functionality
  + View Breweries in Map
    - Sidebar Menu:
      * Show Brewery Summary
        + Show Featured Beers for breweries
      * Allow Search for Breweries in TypeAhead
  + Support user logins for additional Functionality
    - Sign In
    - Sign Up
      * Activate Account
  + Advanced Functionality (for signed in users)
  + Export Data Tables
    - CSV Format for all, Shapefile option for Breweries
  + Bonus Material (time probably won’t allow, but include in samples)
    - Editing Capabilities for signed in Users
    - Add/Update/Delete Brewery
    - Add/Update/Delete Featured Beers for Brewery
* API Testing Tools
  + Postman
  + Fiddler

Sections of Code

1. Create databases
   1. Python
   2. Models for Brewery, Beer, Styles, Categories, Users

Checklist

1. Sign up (create user)
2. Export shapefile