ColdBox from Zero To Hero

Description
In this workshop you will be introduced to the latest version of the most popular CFML MVC framework; ColdBox 5. We will go over the basics of installation, templating and configuration to the most advanced features like HMVC development with modules, RESTful APIs, interception points and much more.

Prerequisites
- Latest CommandBox CLI
- A local database server - MySql is recommended

Schedule / Outline

Introductions/checking prerequisites - 15 mins
- Meet others in the class
- Gather each student’s expectations for the class
- Ensure everyone has CommandBox installed and is ready to go

Project Overview - 15 mins
Discuss this project, and how we will learn and use several different concepts and tools as we work through building a real twitter clone, SoapBox. We will use ColdBox conventions, including BDD / TDD testing and leveraging several ForgeBox modules.

Setup Base App - 1 hour

What we will do:
- Scaffold with the Coldbox template
- Test Harness
- Migrations Harness

Concepts & Tools:
- CommandBox scaffolding
- ForgeBox
- TestBox
- Integrated
- commandbox-migrations
A user can sign up for an account 2 hours

What we will do:
- A user can register for an account
  - Password resets?
  - Authentication and Security - cbauth, cbsecurity
- A user can login to their account - cbstorages
- A user receives a welcome email when signing up for a soapbox

Concepts & Tools:
- Handlers
- Views
- Models
- Qb
- Interceptors
- Cbmailservices
- CBAuth
- Unit tests

Lunch - 1 Hour

A User Rants - 2 hours

What we will do:
- A user can post rants
  - A user can see all their posted rants
- A user can bump 👊 a rant
- A user can poop 🍻 a rant
- A user can edit their own rants

Concepts & Tools:
- HMVC - Module Hierachy
- CBGuard
- RenderData
- Ajax requests
- VueJS

A user can search and follow ranters - 1.5 hours

What we will do:
- A user can search for other ranters
○ SoapBoxer Profile
  ○ A user can see a user's rants.
● A user can follow other ranters
  ○ Followed user's rants should appear in a user's timeline.
  ○ A user can unfollow other ranters
● Unfollowed user's rants should not appear in a user's timeline.

Concepts & Tools:
● Service and DAO separation
● Testbox Runners
● Integration Testing
Brain Dump

- **Introductions/checking prerequisites** - 15 mins
  - CommandBox

- **HMVC Structure**

- **Build a Twitter Clone (SoapBox)**
  - Create account
  - Post tweets/rants
  - Edit tweets/rants!!!
  - Reply to tweets/rants
  - Flame a tweet (bad)
  - Search Users
  - Un/follow Users
  - Bootstrap CSS

- **Data Persistence**
  - commandbox-migrations
    - commandbox-dotenv
  - qb

- **Traditional Views**

- **Ajax Routes (renderData)**
  - Vue.js with ColdBox Elixir?

- **Interceptors**
  - Welcome email on sign up
    - cbmailservices
  - Follow email
    - Check user preferences for email

- **User Management**
  - Login and Logout
  - cbsecurity
  - cbauth
  - cbguard

- **Testing**
  - Integrated
  - Unit Test services

- **Interactivity**
  - NGrok for shared API
  - All students can post their tweets to Eric's machine... shared app infrastructure.