

Workshop Outline

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1 Introduction

- overview on the web architecture
- overview on the technologies you'll be using

2 HTML & CSS

- basic web structuring with HTML
- styling the web page with css

3 Javascript & JQuery

- Introduction to the Javascript syntax
- Javascript Libraries
- JQuery
- Manipulating the DOM with JQuery
- debugging your application with the browser console

4 Bootstrap

- Bootstrap overview
- linking bootstrap
- using bootstrap grids & classes
- using bootstrap javascript components
- using the bootstrap documentation.
- other frameworks

5 Interacting with an existing API

- introduction to RESTful requests
- implementing a request with JQuery
- viewing and presenting request data

6 Introduction to Automation tools

- bower
- SASS & Coffeescript
- Grunt
- yeoman
- generating a backbone app with yeoman

7 Backbone I

- Introduction to SPA Architecture
- Backbone application Architecture
- Other SPA frameworks
- Backbone Views
- Routing

8 Backbone II

- Backbone Models & Collections
- Binding Views to Models and Collections
- Underscore Templates

9 Backbone III

- Integrating the Backbone Application with an existing API
- create a simple backbone application

10 Unit Testing

- introduction to Unit Testing
- Chai, Mocha and Sinon.JS
- writing general tests
- writing tests for the backbone application
- running Unit tests