



- CYU – Check Your Understanding
- LOTW – Learning On The Walls
- PPR – Participant Progress Report
- PTS – Post Training Support (Web)

BACKBONE JS

Duration: 3 Days

INTRODUCTION AND WORKING WITH MODEL

- ❖ Introduction to Backbone js
- ❖ Backbone vs Angular vs Ext js
- ❖ What is SPA?
- ❖ Quick overview of Adv. Javascript
- ❖ What is Model-View-Controller (MVC / MVVM / MVW)?
- ❖ How does Backbone.js fit into this model?
- ❖ Backbone Architecture (How it works)?
- ❖ Setup folder structure
- ❖ Working with Backbone model
- ❖ Retrieving model
- ❖ Saving model
- ❖ Event handling
- ❖ Capturing events
- ❖ Abandoning events
- ❖ Triggering events
- ❖ The model in depth
- ❖ Building a Model with extend()
- ❖ Getters and setters
- ❖ Constructors and defaults
- ❖ Managing changes (Two way Data binding)
- ❖ Validation

WORKING WITH COLLECTIONS

- ❖ Collections: Multiple models
- ❖ Overview of the collections API
- ❖ Creating your own Collection
- ❖ Adding and removing elements
- ❖ Comparing and sorting elements
- ❖ Filtering collections
- ❖ Data manipulation as a batch operation
- ❖ Manipulating collections with Underscore.js
- ❖ Iteration functions (forEach, map, filter)
- ❖ Accessors: last, first
- ❖ Aggregation functions: max, min, etc.
- ❖ Display information with Views



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- ❖ Display a Model
- ❖ Display a Collection
- ❖ Display Aggregated (Reduced) Data
- ❖ Integrating Backend REST services
- ❖ The RESTful model of CRUD interaction
- ❖ Standard syncing over REST

WORKING WITH BACKBONE VIEW , TESTING AND BUILD WITH GRUNT/GULP

- ❖ Understanding Handlebar
- ❖ Understanding Backbone View
- ❖ Understanding Template with view
- ❖ Working with Forms
- ❖ Perform client-side form validation
- ❖ Submit a form to update an object
- ❖ Routing with Backbone
- ❖ Change views with a router and Route parameters
- ❖ Create links to display different views
- ❖ Improve Performance
- ❖ Unit Testing with Jasmine (TDD)
- ❖ Automated Unit testing with Karma on Node
- ❖ Build with Grunt/Gulp
- ❖ Deployment
- ❖ Best Practices