



Ember 2

Section 3 – Ember CLI

Setup An Ember Application
Ember CLI Commands
Build and Deploy the Ember App
Testing the Ember Application



Section Objectives

- Be able to generate Ember templates, routes, controllers, components and models using Ember CLI
- Be able to create a new Ember application using Ember CLI
- Be able to build and deploy an Ember application using Ember CLI
- Be able to test an Ember application using Ember CLI



Ember CLI

Setup An Ember Application

Setup An Ember Application

Ember CLI Commands

Build and Deploy the Ember App

Testing the Ember Application



Getting Started

- node / npm
- Bower, PhantomJS and Watchman are installed upon creating your Ember application
- All Ember CLI commands will start with '**ember**'
- ***ember new {{ app-name }}***
 - Creates a directory, {{ app-name }}
 - Initializes the directory with default application structure
- ***ember init***
 - Generates default application structure in current directory



Ember CLI

Ember CLI Commands

Setup An Ember Application

Ember CLI Commands

Build and Deploy the Ember App

Testing the Ember Application



Ember CLI Command

| Command | Purpose |
|---|--|
| ember | Prints a list of ember commands |
| ember new <app-name> | Creates a directory, <app-name>, and generates the default application structure |
| ember init | Generates the default application structure |
| ember build | Builds the Ember application into the /dist folder. If it doesn't exist, it will create it. Use the –output-path to customize build folder location and –environment to specify build environment. ‘Development’ is default. |
| ember server serve s | Starts up server to host Ember application at http://localhost:4200/ . Use the –proxy flag to specify server to handle all AJAX requests. |
| ember generate g <generator-name> <options> | Generates specified ‘generator’. Use ember help generate to view all possible generators. |
| ember destroy d <generator-name> <options> | Destroys generated component. |
| ember test t | Runs tests with Testem in CI mode. |
| ember install <addon-name> | Installs the specified add-on and places it in your package.json. |



Generated Application Structure

| Directory | Purpose |
|--------------------------|--|
| app/ | Compiled version of the JS files transpiled from ES6 into a single file called <app-name.js>. |
| dist/ | Contains the distributable version of your optimized and self-contained application. Deploy this to your server. |
| public/ | Use this directory for files not in your build steps such as images and fonts. |
| tests/ | Contains all of your integration, unit tests and helpers to help with loading and running the tests. |
| tmp/ | Temporary build-step and debug output. |
| bower_components/ | Bower dependencies |
| node_modules/ | npm dependencies |
| vendor/ | External dependencies not installed through npm or Bower |
| .jshintrc | JSHint configuration |
| .gitignore | Files that Git will ignore when committing. |
| ember-cli-build.js | Contains the build specification for Broccoli. |
| bower.json, package.json | Bower and npm configuration and dependencies. |



App Directory

| Directory | Purpose |
|--|--|
| app/app.js | Your applications entry point. The first module to get executed. |
| app/index.html | The only page of your single page app. Includes dependencies and kickstarts your app. |
| app/router.js | Specifies all of your routes and their configuration. |
| app/styles | Contains your stylesheets whether LESS, SASS, Stylus or Compass. (only one) They are all compiled into <app-name>.css |
| app/templates | All of your Handlebars templates. They are compiled to <app-name>.js They are names by their filenames minus the .hbs extension. (ex. templates/foo/bar.hbs -> foo/bar) |
| app/controllers routes components models | Modules resolved by the Ember Cli Resolver. |



Ember CLI

Build and Deploy the Ember App

Setup An Ember Application

Ember CLI Commands

Build and Deploy the Ember App

Testing the Ember Application



Build and Deploy with Ember CLI

- ***ember build –environment=(production | development) or
ember build --prod***
 - Development is default so only need ***ember build*** if in the development environment

- ***ember serve***
 - This will run the build and run the application in the ***dist/*** directory.



Ember CLI

Testing the Ember Application

Setup An Ember Application
Ember CLI Commands
Build and Deploy the Ember App
Testing the Ember Application



Testing with Ember CLI

- ***ember test (ember t)*** – will run all of your tests once
- ***ember test -server (ember t -s)*** – will run your tests on every change
- ***ember t -s 'Utility | Unit | name'*** – will run only the unit test for a utility by name on every change
- ***ember t -f 'match phrase in test description'*** – will run only the tests that matches the description defined in the test
- ***http://localhost:4200/tests***



Section Review

- Be able to generate Ember templates, routes, controllers, components and models using Ember CLI
- Be able to create a new Ember application using Ember CLI
- Be able to build and deploy an Ember application using Ember CLI
- Be able to test an Ember application using Ember CLI



End of Section

- This slide is purposely devoid of any information