Greens Technologys

Ionic training course syllabus

1. Ionic – Powered by AngularJS

- Understanding the separation of concerns
  - AngularJS components
  - AngularJS directives
  - AngularJS services
  - AngularJS resources

2. Welcome to Ionic

- Mobile Hybrid Architecture
- What is Apache Cordova?
- What is Ionic?
- Software setup
  - Install Node.js
  - Install Git
  - Install Bower
  - Install Gulp
  - Install Sublime Text
  - Install Cordova and Ionic CLI
- The platform guide
- Hello Ionic
- The browser developer tools setup
  - Google Chrome
  - Mozilla Firefox
- The Ionic project structure
  - The config.xml file
  - The www folder
- Scaffolding the tabs template
- Scaffolding the side menu template
- generator-ionic
  - Installing generator-ionic

3. Ionic CSS Components and Navigation

- Ionic CSS components
  - The Ionic grid system
  - The page structure
  - Buttons
  - Lists
  - Cards
  - Ionicons
  - Form elements
  - Integrating Ionic CSS components with AngularJS
  - The Ionic router
  - A simple two-page app

4. Ionic and SCSS

- What is Sass?
- Setting up SCSS in our Ionic project
  - The manual setup
  - The Ionic CLI task
- Working with Ionic SCSS
  - Basic swatch
- Understanding the Ionic SCSS setup
  - Using variables and mixins
- The SCSS workflow
- Building a swatch

5. Ionic Directives and Services

- Ionic directives and services
- The Ionic Platform service
  - registerBackButtonAction
  - The on method
  - Headers and footers
- Content
  - ion-content
  - ion-scroll
  - ion-refresher
  - ion-infinite-scroll
  - $ionicScrollDelegate
  - Navigation

- o ion-view
- o Ionic view events
- o ion-nav-bar
- o ion-nav-buttons
- o $ionicNavBarDelegate
- o $ionicHistory
- o Tabs and side menu
- Ionic loading
- o The Action Sheet service
- o Popover and Popup services
- o $ionicPopup
- The ion-list and ion-item directives
- Gesture directives and services
- o Utilities

6. Building a sample App

- An introduction to the sample application
- The architecture of the app
- o The server architecture
- o The server-side API documentation
- o The client architecture
- o Code on GitHub
- o A demo of the sample app
- ▪ The development flow
- Setting up the server
- Building the application
- o Step 1 – Scaffolding the side menu template
- o Step 2 – Refactoring the template
- ▪ Refactoring the menu
- ▪ Refactoring the module name
- ▪ Adding a run method and modifying routes
- ▪ Refactoring templates
- o Step 3 – Building authentication, localStorage, and the REST API factory
- ▪ The Ionic loading factory
- ▪ The localStorage factory
- ▪ The Authentication factory
- ▪ The REST API factory
- o Step 4 – Creating controllers for each route and integrating with the factory

- The application controller
- The browse controller
- The book controller
- The cart controller
- The purchase controller
- Step 5 – Creating templates and integrating with the controller data
  - The Login template
  - The Browse template
  - The Product item template
  - The Shopping Cart template
  - The Purchase template

7. Cordova and ngCordova

- Setting up a platform-specific SDK
  - The Android setup
  - The iOS setup
- Testing the setup
  - Testing for Android
  - Testing for iOS
- Getting started with Cordova plugins
- The Ionic plugin API
  - Add a plugin
  - Remove a plugin
  - List added plugins
  - Search plugins
- The Cordova whitelist plugin
- ngCordova
  - Setting up ngCordova
  - Legend
  - $cordovaToast
  - $cordovaDialogs
  - $cordovaFlashlight
  - $cordovaLocalNotification
  - $cordovaGeolocation

8. Building a Messaging App

- The Ionic Chat app

- o Firebase
- ▪ Setting up a Firebase account
- ▪ AngularFire
- • The application architecture
- o Authentication
- o The application flow
- o Previewing the app
- o Data structure
- o Cordova plugins
- o Code on GitHub
- • Developing the application
- o Scaffolding and setting up the app
- o Installing the required Cordova plugins
- o Getting the Google API key
- o Setting up routes and route authentication
- o Setting up services/factories
- o Setting up a map directive
- o Setting up controllers
- o Setting up templates
- o Setting up SCSS
- • Testing the application

9. Releasing the Ionic App

- • Preparing the app for distribution
- o Setting up icons and splash screens
- o Updating the config.xml file
- • The PhoneGap service
- • Generating installers using the Cordova CLI
- o Android installer
- o iOS installer
- • The Ionic package
- • Uploading the project to Ionic cloud
- • Generating the required keys

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