

NativeScript Training

Course Options

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Course: NativeScript with Angular Workshop

Course Number: NSNGW-100

Duration: 1 days

Overview

NativeScript with Angular one day workshop introduces developers with no NativeScript experience to the framework as it is used with Angular. Some Angular experience is recommended.

Training Prerequisites

All attendees must have prior JavaScript and TypeScript experience and experience with prior Angular experience highly recommended.

Training Materials

All attendees receive courseware and exercise code.

Software Needed on Each Student Machine

- Google Chrome
- Visual Studio Code
- Node.js installed
- Android tools set up and working
- If developing for iOS, a Mac is required with XCode installed and configured
- All installation steps must have been completed as described in the installation section of www.nativescript.org (<https://docs.nativescript.org/start/quick-setup>)
- Other free software and lab files that Nuvius will specify

Training Objectives

- Create, build, and package a NativeScript with Angular application
- Learn the basics of building a mobile user interface with NativeScript
- Adopt existing Angular and web knowledge to the mobile world

Outline

Getting started

- Prerequisites
- NativeScript Introduction

Project Setup

- CLI
- Debugging

User Interface

- Data and Event Binding
- Theme
- Animations
- NativeScript UI

Navigation

- Routing
- Template Navigation
- Programmatic Navigation
- Passing Data
- Transitions

Components and Services

- Components
- Services
- HttpClient
- Custom events

Plugins

- Camera
- Social Share
- Pull to Refresh

Bonus Challenge 1: List

- Building a List
- Requirements
- Tips

Bonus Challenge 2: Master-Details

- Building the Pages
- Requirements
- Tips

Bonus Challenge 3: Form

- Building a Form
- Requirements
- Tips

Next Steps

- Where to go from here?
- Resources

Course: Introduction to NativeScript with Angular

Course Number: NSNG-111

Duration: 3 days

Overview

NativeScript Training Introduction to NativeScript with Angular course teaches developers with zero NativeScript and Angular experience how to start from scratch and develop an application that will run on iOS and Android.

Training Prerequisites

All attendees must have strong prior JavaScript and TypeScript experience. No prior NativeScript experience is necessary, but Angular experience is recommended.

Training Materials

All attendees receive courseware and the latest/best NativeScript textbook as of the date of training.

Software Needed on Each Student Machine

- Google Chrome
- Visual Studio Code
- Node.js installed
- Android tools set up and working
- If developing for iOS, a Mac is required with XCode installed and configured
- Other free software and lab files that Nuvious will specify

Training Objectives

- Use industry best practices to architect an Angular mobile application with NativeScript
- Configure the development environment and set up the CLI
- Use industry standard tools for NativeScript development, including TypeScript
- Learning the Core NativeScript concepts
- Create, debug, and build a NativeScript with Angular application using the CLI approach

Outline

Getting started

- What is NativeScript?
- How NativeScript works
- Resources
- Documentation
- API
- App folder structure

Configuration

- Setting up the environment
- Knowing your tools
- Using TypeScript

NativeScript CLI

- What is the CLI

- How to use the CLI
- Commands
- Solving common problems

Core Concepts

- Bootstrapping
- Application configuration
- App skeleton
- Components
- Component life cycle
- Error handling
- Application Life Cycle
- iOS UIApplicationDelegate
- Android Activity Events
- Project Status Bar utils

UI Basics

- UI Hierarchy
- Pages vs Components
- Layouts
- Data-binding
- NgModel
- Event handling
- Gestures
- CSS Styling

Working with Data

- Forms
- File system
- Remote server
- Local storage

Routing and Navigation

- Declarative routing Approach
- Programmatic Routing Approach
- RouterExtensions
- Routing parameters

Animations

- CSS Animations
- The animate method
- AnimationDefinition

- Curves
- Chaining with Promises

Course: Advanced NativeScript with Angular

Course Number: NSNG-142

Duration: 2 days

Overview

NativeScript Training Advanced NativeScript with Angular course teaches developers with some NativeScript and Angular experience how to take advantage of the framework's more sophisticated features.

Training Prerequisites

All attendees must have strong prior JavaScript and TypeScript experience and experience with NativeScript and Angular equivalent to NativeScript Training Introduction to NativeScript with Angular class.

Training Materials

All attendees receive courseware and the latest/best NativeScript textbook as of the date of training.

Software Needed on Each Student Machine

- Google Chrome
- Visual Studio Code
- Node.js installed
- Android tools set up and working
- If developing for iOS, a Mac is required with XCode installed and configured
- All installation steps must have been completed as described in the installation section of www.nativescript.org (<https://docs.nativescript.org/start/quick-setup>)

- Other free software and lab files that Nuvius will specify

Training Objectives

- Use industry best practices to architect an Angular mobile application with NativeScript
- Manage the state of a modern mobile application using the latest technologies such as @ngrx
- Unit test all the parts of an Angular application including Modules, Components, Services, and Pipes
- Create, build, and package a NativeScript with Angular application using the CLI approach
- Develop dynamic Model-driven forms that are easier to unit test

Outline

Getting started

- tns-platform-declarations
- project dependencies
- high level app folder structure
- API Server
- Consuming the API
- Code Style and Tools

Application Management

- Bootstrapping options
- Application configuration
- Application Logging
- Error handling
- Application Life Cycle
- iOS UIApplicationDelegate
- Android Activity Events

Application State

- Methodology
- Reactive Store and State
- Smart and Presentation Components
- Persisting State
- NgRx intro

Advanced Routing

- Combining Routing outlet options
- Lazy loading
- Navigation Directive

Debugging

- Debugging with Visual Studio Code
- Debugging with Chrome
- Http Debugging

Testing

- Configuring your project
- Creating tests
- Running tests
- Configuring the Karma server
- Continuous Integration

Webpack Bundling

- AOT
- Configuring WebPack
- Bundling with WebPack
- Bundling Extra Assets

Course: Comprehensive NativeScript with Angular

Course Number: NSNG-144

Duration: 5 days

Overview

NativeScript Training Comprehensive NativeScript with Angular bootcamp teaches students the basic and advanced skills they need to design, build, and test sophisticated native mobile applications that function well on iOS and Android operating systems.

Training Prerequisites

All attendees must have substantial prior experience developing with JavaScript and TypeScript. If attendees will not have prior TypeScript experience, we would be delighted to precede this class with a one- or two-day intensive TypeScript primer.

Training Materials

All attendees receive courseware and the latest/best NativeScript textbook as of the date of training.

Software Needed on Each Student Machine

- Google Chrome
- Visual Studio Code
- Node.js installed
- Android tools set up and working
- If developing for iOS, a Mac is required with XCode installed and configured
- All installation steps must have been completed as described in the installation section of www.nativescript.org (<https://docs.nativescript.org/start/quick-setup>)
- Other free software and lab files that Nuvious will specify

Training Objectives

- Use industry best practices to architect an Angular mobile application with NativeScript
- Manage the state of a modern mobile application using the latest technologies such as @ngrx
- Understand how Angular is different than traditional web development frameworks
- Code using new ES6 and TypeScript language features
- Develop an application from scratch using NativeScript with Angular
- Explore Angular coding and architecture best practices
- Understand and use Angular Forms, Observables, Dependency Injection, and Routing
- Retrieve, update, and delete data using Angular's Http service
- Unit test all the parts of an Angular application including Modules, Components, Services, and Pipes
- Create, build, and deploy an Angular application using the CLI approach
- Develop dynamic Model-driven forms that are easier to unit test

Outline

Getting Started

- tns-platform-declarations
- Project Dependencies
- High Level App Folder Structure
- API Server
- Consuming the API
- Code Style and Tools

Application Management

- Bootstrapping Options
- Application Configuration
- Auto Injection
- Application Internationalization
- Console Visualization
- Application Logging
- Error Handling
- Application Life Cycle
- iOS UIApplicationDelegate
- Android Activity Events
- Project Status Bar Utils

Application State

- Methodology
- Reactive Store and State
- Smart and Presentation Components
- Persisting State
- NgRx Intro

Routing and Navigation

- Declarative Routing Approach
- Programmatic Routing Approach
- RouterExtensions
- Navigation Service
- NavigationOptions
- Route Guards
- Combining Routing Outlet Options
- Routing Parameters
- Lazy Loading

- Navigation Directive

Deeper UI

- Frames
- Using the Page
- View Life Cycle
- Dialogs
- Modals
- Multiple ListView Templates
- FormattedString
- ActionBar
- Local Notifications
- Controlling the Keyboard
- Using Icon Fonts
- Lower Cased and Dashed Components
- Programmatic Components
- Platform Specific Declarations
- Screen Size Qualifiers
- Platform Qualifiers
- Orientation Qualifiers

Hardware Access

- Using Location
- Accessing the Camera

Tracing and Debugging

- Setting up Tracing
- Using Tracing
- Debugging Options
- Debugging Commands
- Debugging with Visual Studio Code
- Debugging with Chrome
- Http Debugging

Testing

- Configuring Your Project
- Creating Tests
- Running Tests
- Configuring the Karma Server
- Continuous Integration

Preparing for Deployment

- AOT
- Configuring WebPack
- Bundling with WebPack
- Bundling Extra Assets
- Advanced WebPack
- iOS Launch Screen
- iOS App Icons
- iOS Publishing
- Android Launch Screen
- Android App Icons
- Android Publishing

Custom Training Services

NativeScript Training flagship service is custom learning solutions. We have led the way in offering clients outside the box learning programs to help enterprise clients keep up with the demands of business and the speed of technology.

- Designed for teams of all sizes - Built with a deep-dive approach with a focus on immersive learning
- Adaptable to suit organizations with common challenges such as remote teams, limited resources, highly specialized requirements, etc.
- Tailored to specific business drivers with measurable objectives

Nearly 50% of the training courses offered by NativeScript Training are tailored from traditional classroom content and learning modalities.

NativeScript Training works with your organization to ensure we design a custom learning plan, regardless of the topic. With a network of Subject Matter Experts in all domains of IT you are guaranteed a high-quality learning experience matched with skilled facilitators who possess real-world expertise.