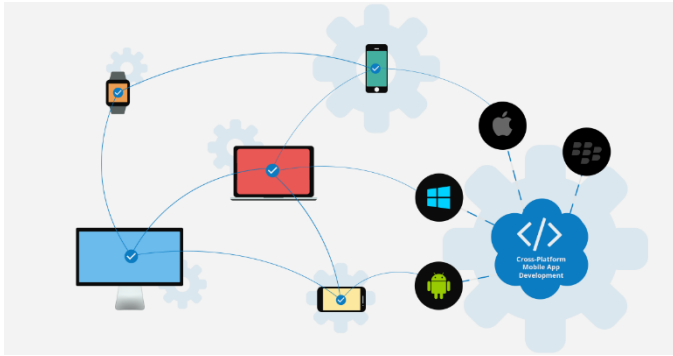


Summer Training Program 2019



Progressive web app dev and cross platform mobile app development

Contents

- Introduction to Mobile Apps
 - Phonegap Introduction
 - History
 - Architecture
- Introduction to HTML & CSS
 - Basics
 - Simple website making
 - Styling using CSS
 - Adding functionalities using jQuery/JavaScript
 - Setting up of environment
 - Downloading and installing PhoneGap
 - Installing PhoneGap in IDE's
 - Making hello world
 - Introduction and usage of Phonegap Build Services
 - User Interface Development with jQuery Mobile
 - Introduction
 - Creating Pages
 - GUI making
 - Navigation bar, buttons, grids and Other Controls
 - Persisting data between jQuery Mobile pages
 - PhoneGap API
 - Movement and Location

- Detecting device movement using the accelerometer
- Obtaining device geolocation sensor information
- Retrieving map data through geolocation coordinates
- File System, Storage, and Local Databases
 - Saving a file to device storage
 - Opening a local file from device storage
 - Displaying the contents of a directory
 - Creating a local SQLite database
 - Working with Audio, Images, and Video
 - Recording audio within your application
- Playing audio files from the local filesystem
 - Capturing video using the devices video recording
- application
 - Loading a photograph from the devices camera
- roll/library
 - Working with Your Contacts
 - Listing all available contacts
 - Displaying contact information for a specific individual
 - Creating and saving a new contact
 - Work with Native Events
 - Pausing your application
 - Resuming your application
 - Displaying the status of the device battery levels
 - Displaying network connection status
- Extending PhoneGap with Plugins
 - Extending your Cordova application with a native plugin
 - Extending your Cordova iOS application with a native plugin
 - The plugin repository
- Deploying and testing
 - Compiling it to APK files
 - Exporting to android device
 - Testing app on Emulator
 - Testing app on Device
- App Store Submission
 - Signing Android applications
 - Submitting the app to Google Play Store



ATS Learning Solutions

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- Introduction to Progressive Web Apps

- Understanding Web App Manifest
- Service Worker
- Cache and Offline Support
- Dynamic Content Cache
- Deployment to Firebase
- Background Sync
- Push Notification
- PWA with SPA

- Angular JS 2

- What is Angular?
- CLI Deep Dive & Troubleshooting
- Project Setup and First App
- Editing the First App
- What is TypeScript?
- A Basic Project Setup using Bootstrap for Styling
- Getting Angular App gets Loaded and Started
- Components are Important!
- Creating a New Component
- Understanding the Role of AppModule and Component Declaration
- Using Custom Components
- Creating Components with the CLI & Nesting Components
- Working with Component Templates
- Working with Component Styles
- Fully Understanding the Component Selector
- Databinding
- **Services**
- Routing
- Pipes

- Working with database

- One module on Cyber and mobile security

This course teaches students to develop Apps not only mobile but progressive web apps using easy to use scripting languages like HTML5, JavaScript, jQuery, Angular JS, and third party App converters like Cordova and PhoneGap.

Project work

Develop a App using the technologies learnt during the Industrial project training along with a group of students.



Training



Assessment



Project work



Post Training support



Online Aptitude prep



Certification



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