

## PhoneGap for Mobile Application

### Course Contents:

#### 1. Phonegap Introduction

- Introduction
- History
- Architecture

#### 2. Introduction to HTML & CSS

- Basics
- Simple website making
- Styling using CSS

#### 3. Adding functionalities using jQuery/JavaScript

#### 4. Setting up of environment

- Downloading and installing PhoneGap
- Installing PhoneGap in eclipse
- Making hello world

#### 5. Introduction and usage of Phonegap Build Services

#### 6. User Interface Development with jQuery Mobile

- Introduction
- Creating Pages
- GUI making
- Navigation bar, buttons, grids and Other Controls
- Persisting data between jQuery Mobile pages

#### 7. 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

## PhoneGap for Mobile Application

- **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

### 8. Extending PhoneGap with Plugins

- Extending your Cordova application with a native plugin
- Extending your Cordova iOS application with a native plugin
- The plugin repository

### 9. Deploying and testing

- Compiling it to APK files
- Exporting to android device
- Testing app on Emulator
- Testing app on Device

### 10. App Store Submission

- Signing Android applications
- Submitting the app to Google Play Store