Mobile Integration

Bill Keech

Sunbelt Computer Systems

Mobile Integration OVERVIEW

- Why Cordova/Phonegap?
- PL/B Support
- CLIENT Methods
- CLIENT Events
- Mobile Platforms
- Mobile Services
- Future Mobile Web Support
- Sample Programs

Why Cordova/Phonegap?

- Mobile apps with HTML, CSS & JS

- Target multiple platforms with one code base

- Free and open source

- Access native device APIs

Why Cordova/Phonegap?

- **Support for offline scenarios**

- **Visual Studio 2015 Community support**

- **https://cordova.apache.org/**

PL/B Support

- **Prebuilt client will be provided**

- **Customer can use code base to develop a custom mobile app**

- **XDATA can be used to create JSON data**

- **New CLIENT object methods to integrate with native APIs**

- **New CLIENT object events to integrate with native APIs**

CLIENT Methods

- **AppGetInfo method returns general, battery, or network information**

- **AppGetPicture is used to get a picture from a camera or album**

- **AppUpload is used to upload a file to the PL/B Web Server**

- **Security is in place to prevent false upload requests**

CLIENT Methods

- **AppDownLoad is used to download a file to a device**

- **AppVibrate is used to vibrate a device**

- **AppApi is used to provide custom javascript routines**

- **AppCapture is used to obtain pictures, videos, or recordings**

CLIENT Methods

- **AppFindContact will obtain a contact from a device**

- **AppPickContact will bring up a contact selection dialog**

- **AppDialog will display basic dialogs (like ALERT instruction)**

- **AppMedia can be used to play sound media files**

CLIENT Methods

- **AppVersion will return custom version information**

- **AppPushInit will set up an application for push notifications**

- **AppPushAction will allow push notification manipulations**

- **AppAzureLogon will connect to an Azure mobile service**

CLIENT Methods

- **AppAzureRegPush will register device with an Azure push hub**

- **AppExtendedError will return extended error information**

CLIENT Events

- **All Cordova methods will return a result immediately**
- **Actions that take time will be sent as events**

- **Events are:**

ContactPicked   GetPict

DoCapture   DoUpload

DoDownload Api

Dialog   GetContact

Media   PushReg

PushNotify   PushErr

PushAction   AzRegPush

Mobile Platforms

- **Android - Play Store**

–Developer program (Playstore Developers Console)

–http://developer.android.com/index.html

- **iOS - App Store**

–Developer program

–https://developer.apple.com/

- **Windows 8.1/10 - Windows Store**

–Developer program

–https://dev.windows.com/

Mobile Services

- **Provide data storage**

- **Provide user authentication**

- **Provide push notifications**

- **Microsoft Azure**
  – **https://azure.microsoft.com/en-us/documentation/articles/mobile-services-javascript-backend-windows-store-dotnet-get-started/**

Mobile Services

- **Google Cloud Platform**

–**https://cloud.google.com/solutions/mobile/mobile-app-backend-on-cloud-plaform**

–**https://cloudplatform.googleblog.com/2016/02/how-to-build-mobile-apps-on-Google-Cloud-Platform.html**

Future Mobile Web Support

- Uses .plm extension

- Uses JQuery Mobile
– http://jquerymobile.com/

- Load a new bootstrap page plbmobstart.html

Sample Programs

- appmaster.pls