PlbWebCli Development

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PlbWebCli OVERVIEW

- **Why Cordova/Phonegap?**
- **Features**
- **Limitations**
- **CLIENT Methods**
- **CLIENT Events**
- **JQuery Mobile Support**
- **Offline 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

- Customers can use code base to develop a custom app

- https://cordova.apache.org/

Features

- Available on Android, iOS, and Windows 10

- Android has PlbWebCliLite with no GPS support

- Supports iBeacon protocol

- Supports Honeywell Scanners

- Allows access to device resource such as camera, address book, …

Features

- All support files bundled with app

- QR code support for program configuration

- Configuration information loaded from plbwebaddr.txt

- Can run in an offline mode

- Windows 10 can use WinJS and UWP APIs

Limitations

- Submenus on touch screens require hover event

- Cross scripting is a security issue for iframe

- Windows 10 html onxxxx= eventcode not allowed

CLIENT Methods

- **GetState with a StateMask of 2 indicates Corodva Support**

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

- **AppStatusBar controls a mobile device OS statusbar**

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

- **AppScanBarCode provides an API for scanning barcodes**

CLIENT Methods

- **AppDirAdd, AppDirDel, AppDirGet for path operations**

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

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

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

- **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**

- **AppGeoLocation is used to find a mobile device's location**

- **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**

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

- **AppBeaconStatus retrieves the status of beacon capabilities**

- **AppBeacon starts or stops specific beacon actions**

- **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**

- **All events return JSON data**

- **$ClientEventOrient, and $ClientEventPostMessage events available**

Jquery Mobile Support

- **Uses .plm extension**

- **Uses JQuery Mobile (http://jquerymobile.com/)**

- **Loads a new bootstrap page plbmobstart.html**

- **WINDOW objects are treated as JQuery Mobile pages**

- **No MAIN WINDOW**

Jquery Mobile Support

- JqmOptions method sets global JQuery Mobile options

- Runtime contains new page stack

- ACTIVATE transitions to new page

- DEACTIVATE returns to previous page

- JqmPage method manipulates the page stack

Jquery Mobile Support

- New events accessed using EnableJqEvent

- Events are: swipeleft, swiperight, swipe, tap, and taphold

- No TOOLBAR support

- No standard MENU support.

Offline Support

- Html, Javascript, and CSS can be used to create an offline program

- Full Cordova support, JQuery, and JQuery mobile available

- AppInstallOffLine adds or removes program configuration entries

- AppSetOffLine sets the configuration when client goes offline

- AppDownLoad used to transfer files

Sample Programs

- appmaster.pls

- jqmsamp.pls

- Appoffline.pls

Questions?