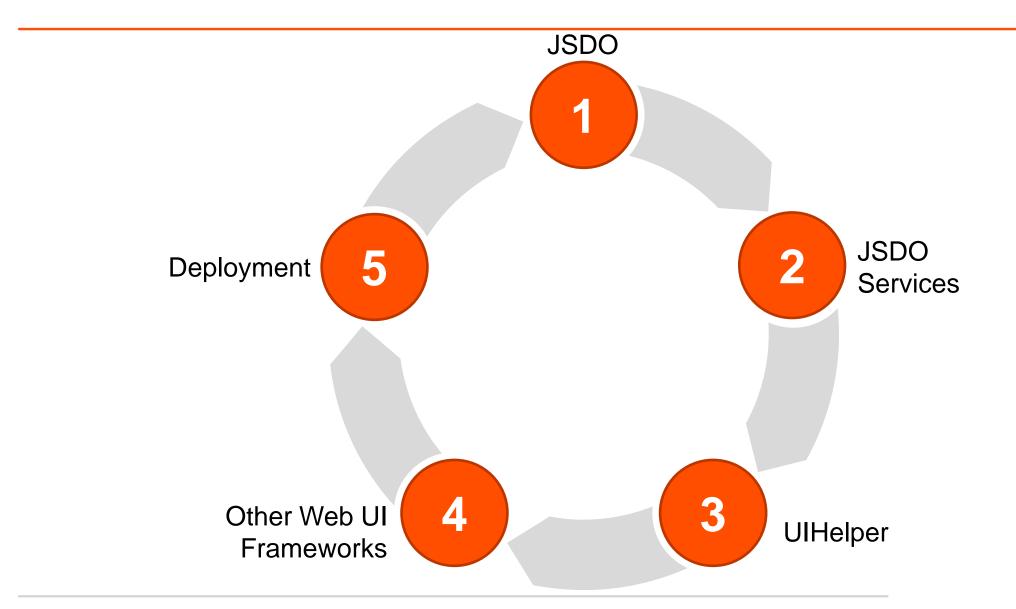
Inside Progress OpenEdge Mobile!

Edsel Garcia OpenEdge Development



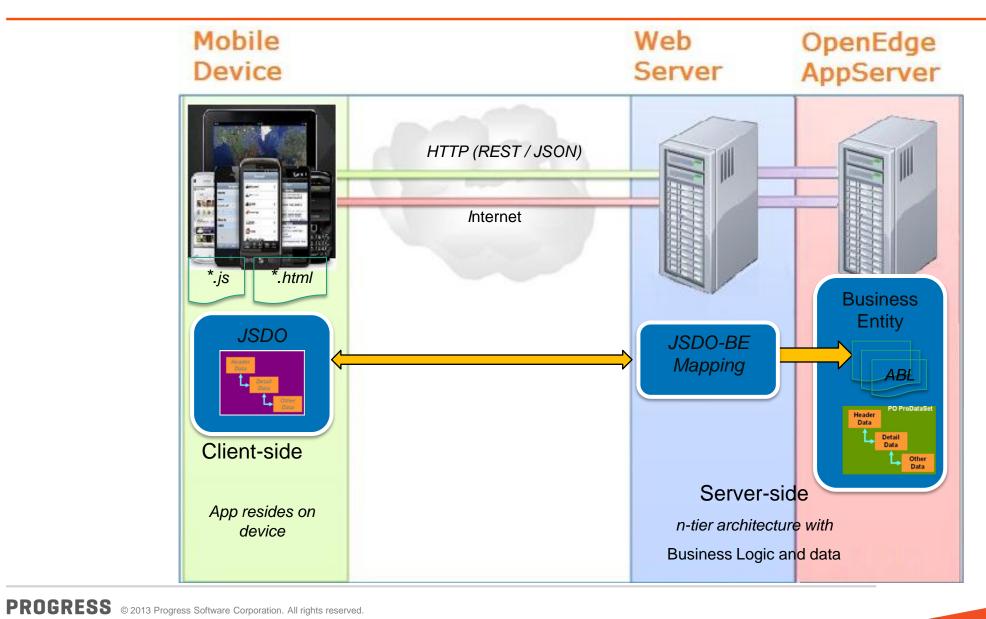


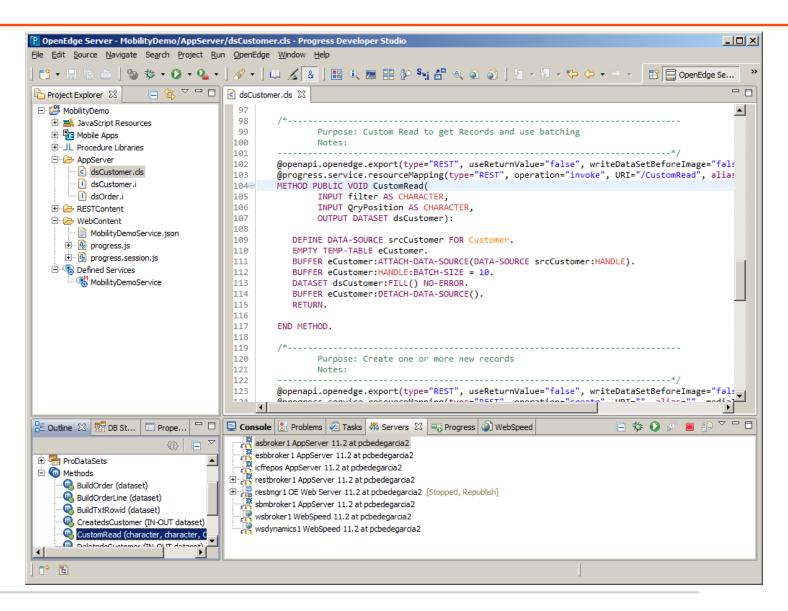


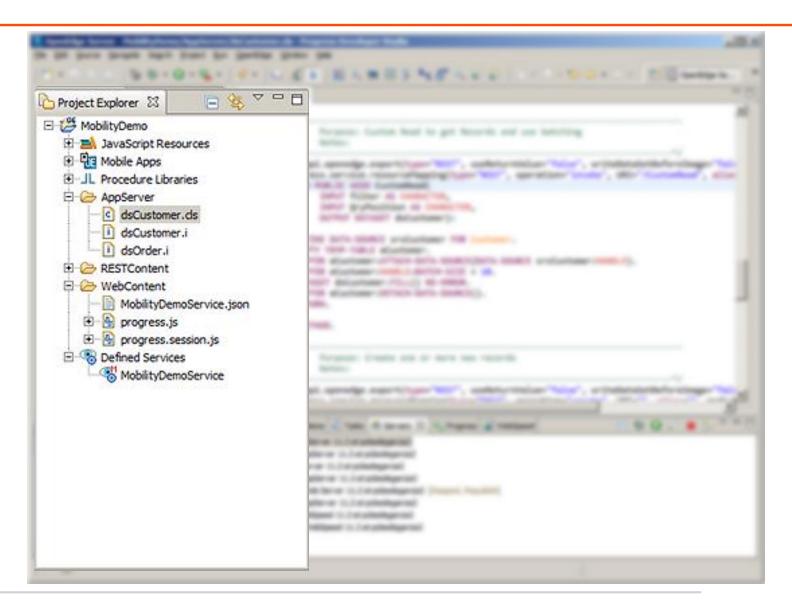
JSDO – Progress JavaScript Data Object

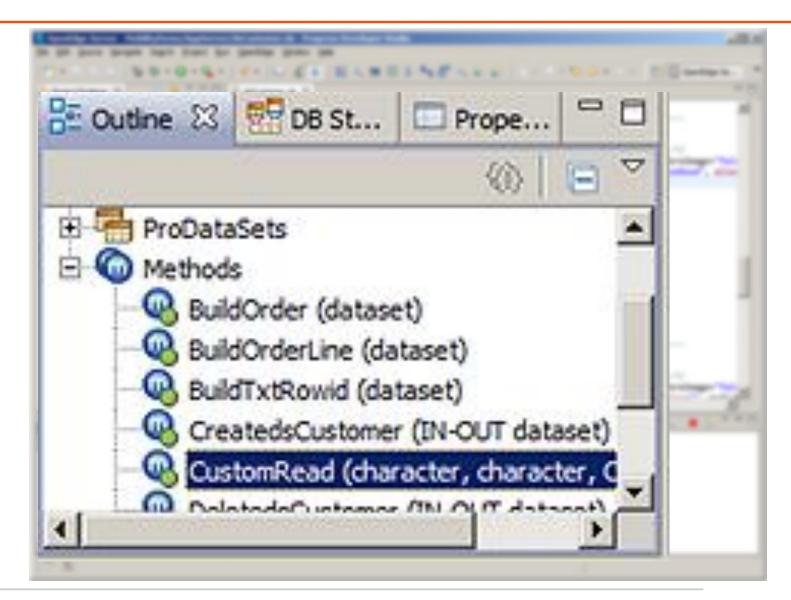
- Access to OpenEdge Database
- Access to the OpenEdge AppServer
- XMLHttpRequest
- ProDataSet
- CRUD + Invoke

Runtime Architecture for OpenEdge Mobile

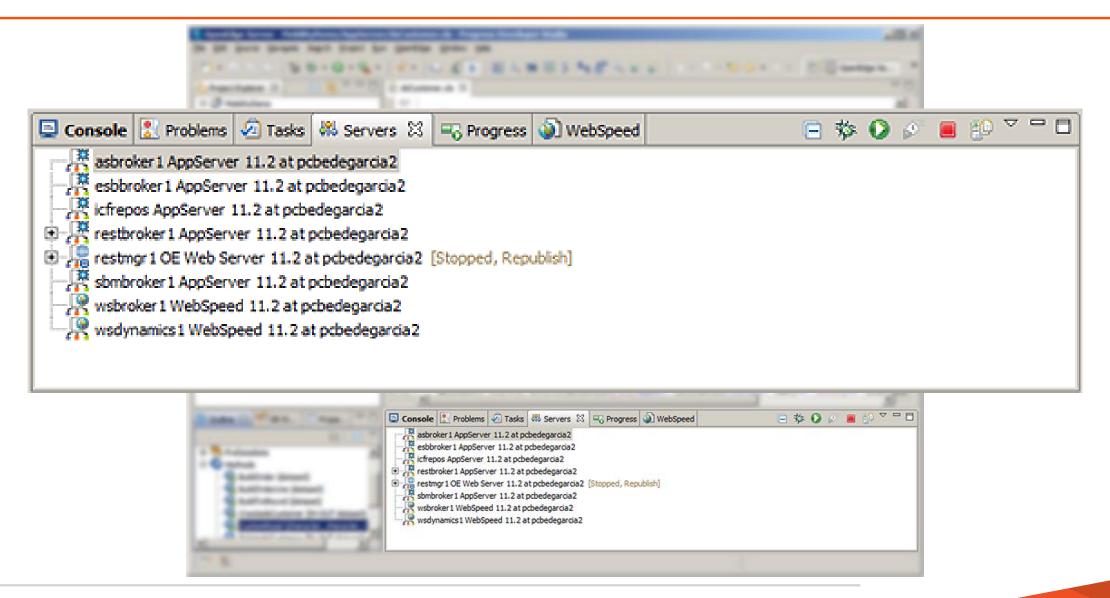








```
SOLO-GO TO LES ELMESINELES LOS SOLO ESCADO
dsCustomer.ds 🔀
 97
  98
               Purpose: Custom Read to get Records and use batching
  99
 100
               Notes:
 101
        gopenapi.openedge.export(type="REST", useReturnValue="false", writeDataSetBeforeImage="false")
 102
        @progress.service.resourceMapping(type="REST", operation="invoke", URI="/CustomRead", alias
 103
        METHOD PUBLIC VOID CustomRead(
 104⊖
 105
               INPUT filter AS CHARACTER,
               INPUT OryPosition AS CHARACTER,
 106
               OUTPUT DATASET dsCustomer):
 107
 108
 109
           DEFINE DATA-SOURCE srcCustomer FOR Customer.
 110
           EMPTY TEMP-TABLE eCustomer.
 111
           BUFFER eCustomer:ATTACH-DATA-SOURCE(DATA-SOURCE srcCustomer:HANDLE).
 112
           BUFFER eCustomer: HANDLE: BATCH-SIZE = 10.
 113
           DATASET dsCustomer:FILL() NO-ERROR.
           BUFFER eCustomer:DETACH-DATA-SOURCE().
 114
 115
           RETURN.
 116
 117
        END METHOD.
 118
 119
 120
               Purpose: Create one or more new records
121
               Notes:
 122
        123
 124
```



JSDO Catalog

```
00
               dsCustomer.ds
      "version": "1.0",
      "lastModified": "Tue Mar 05 16:01:57 EST 2013",
      "services": [{
          "name": "MobilityDemoService",
          "address": "\/rest\/MobilityDemoService",
          "useRequest": true,
          "resources": [{
              "name": "dsCustomer",
              "path": "\/dsCustomer",
10
              "schema": {
11
12
                   "type": "object",
                  "additionalProperties": false,
14
                  "properties": {"dsCustomer": {
15
                       "type": "object",
                       "additionalProperties": false,
17
                       "properties": {"eCustomer": {
                           "type": "array",
18
19
                           "items": {
28
                               "additionalProperties": false,
21
                               "properties": {
22
                                    id": {"type": "string"},
23
                                   "CustNum": {
24
                                       "type": "integer",
25
                                       "default": 0,
26
                                       "title": ""
27
                                   "Mamo" . f
20
                                   R adicates: Half-based 11, 2 strather/agental
```

JSDO – Progress Java Script Data Object

- CRUD + Invoke
 - (CREATE) add()
 - fill() (READ)
 - (UPDATE) assign()
 - remove() (DELETE)
 - method() (INVOKE)
- **Properties**
 - autoSort (11.3)
 - caseSensitive (11.3)
 - name
 - record
 - useRelationships

- Methods
 - addRecords()
 - find()
 - findByld()
 - Foreach()
 - getData()
 - getId()
 - getSchema()
 - saveChanges()
 - sort() (11.3)
 - subscribe()
 - unsubscribe()

JSDO – Progress JavaScript Data Object

- JSDO progress.js
- Session progress.session.js
- DLC/mobile/client/js
- Included in Mobile App Builder projects

JSDO – Using the JSDO

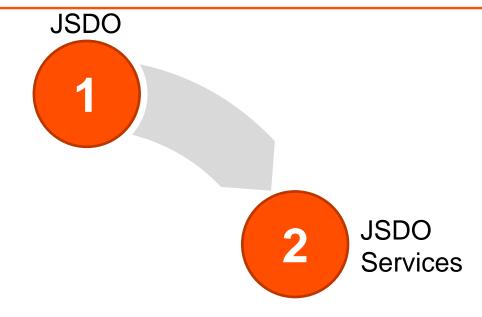
```
session = new progress.data.Session();
session.login(<url-to-service>, "", "");
session.addCatalog(<url-to-jsdo-catalog>);
jsdo = new progress.data.JSDO({ name: 'dsCustomer' });
jsdo.subscribe('AfterFill', onAfterFillCustomers, this);
jsdo.fill();
```

JSDO





Leverage Existing **Business Logic**



JSDO Services

- Access to the JSDO from the Mobile App Builder
- **JSDO Catalog**
- CRUD:
 - Create
 - Read
 - Update
 - Delete
- Row
- Invoke

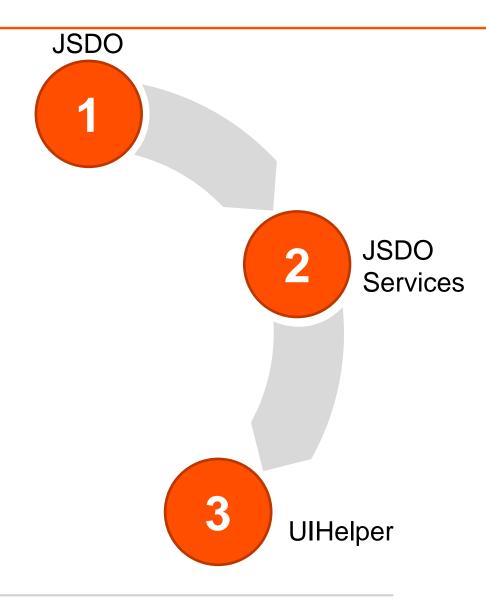
JSDO Services





- Leverage Existing **Business Logic**
- Increase Productivity, Quicker Time to Market

JSDO Services



UIHelper

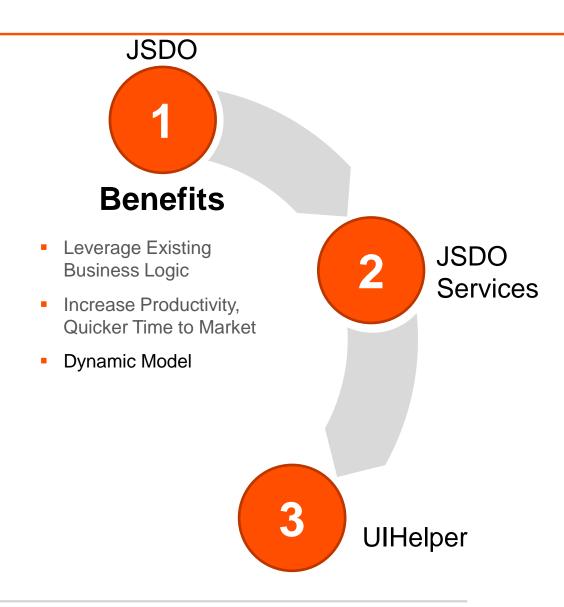
- UI based on HTML (listviews built using +)
- jQuery Mobile
- jQuery Mobile using the Mobile App Builder
- JavaScript + HTML

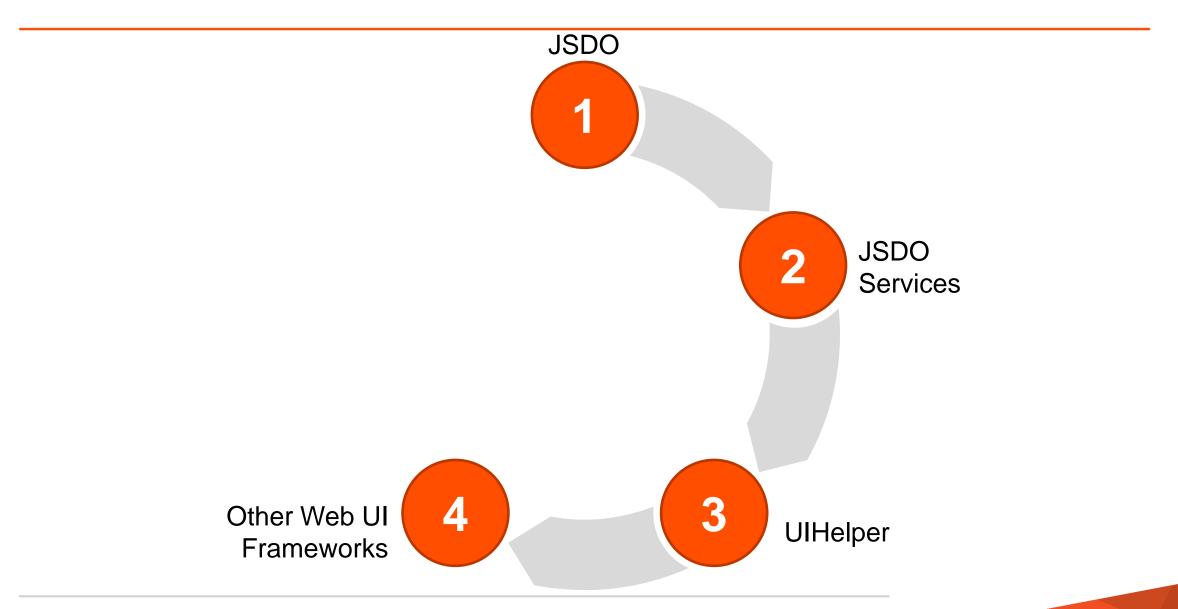
UIHelper – Using the UIHelper

```
session = new progress.data.Session();
session.login(<url-to-service>, "", "");
session.addCatalog(<url-to-jsdo-catalog>);
jsdo = new progress.data.JSDO({ name: 'dsCustomer' });
jsdo.subscribe('AfterFill', onAfterFillCustomers, this);
uihelper = new progress.ui.UIHelper({ jsdo: jsdo });
uihelper.setDetailPage({ name: "custdetail" });
uihelper.setListView({ name: 'listview',
     format: '{CustNum}<br>{Name}<br>{State}<br>{Country}',
     autoLink: true
isdo.fill();
```

UIHelper

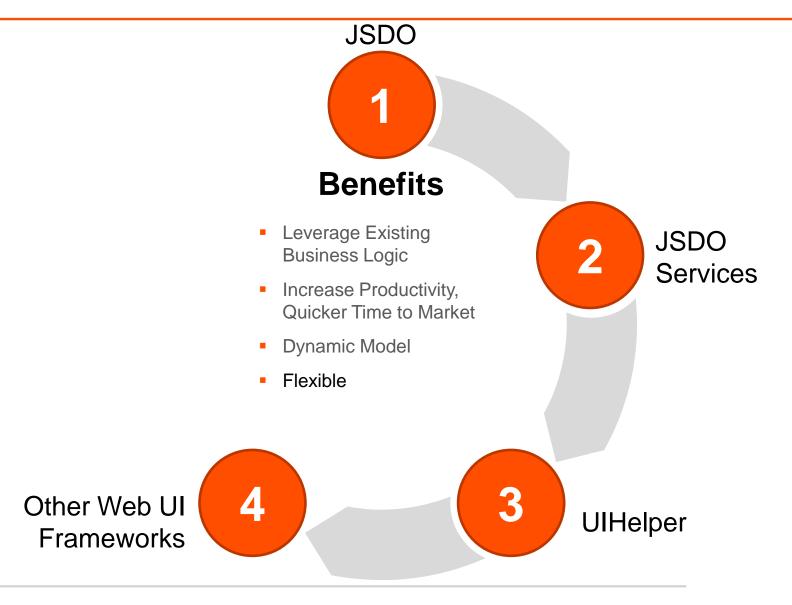


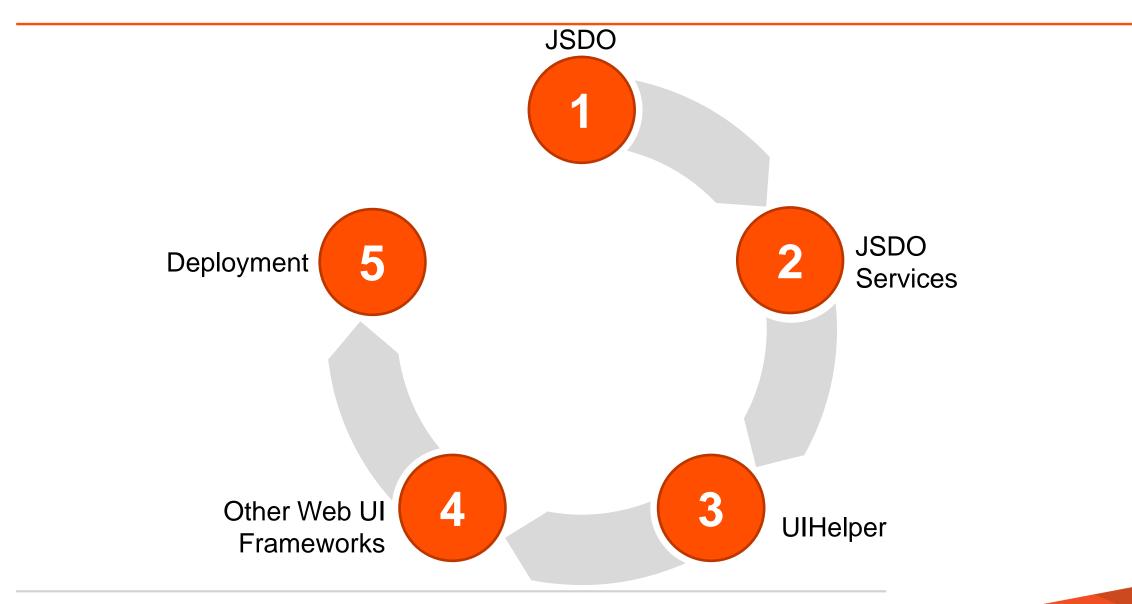




Other Mobile Web UI Frameworks

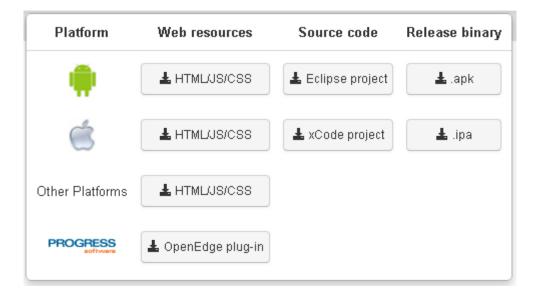
- Web
- Sencha Touch
- Knockout.js
- Qooxdoo
- Dojo Toolkit





- Build native app for iOS and Android using PhoneGap
- Cloud based build
- Distribution certificate and provisioning profile needed for iOS
- Auto-generated key/certificate for Android
 - Install from Unknown Sources allows install on device
- Install options:
 - Over the Air Install (iOS)
 - iTunes sync (iOS)
 - Download from web site (Android)





We are working as fast as we can to build your IPA file...

This page will refresh in **8 seconds** automatically.

Refresh manually

We are done!

Your application file was built successfully.

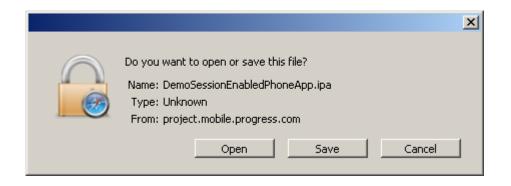
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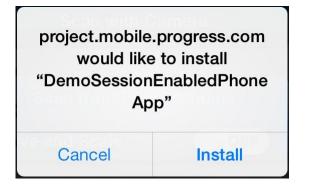


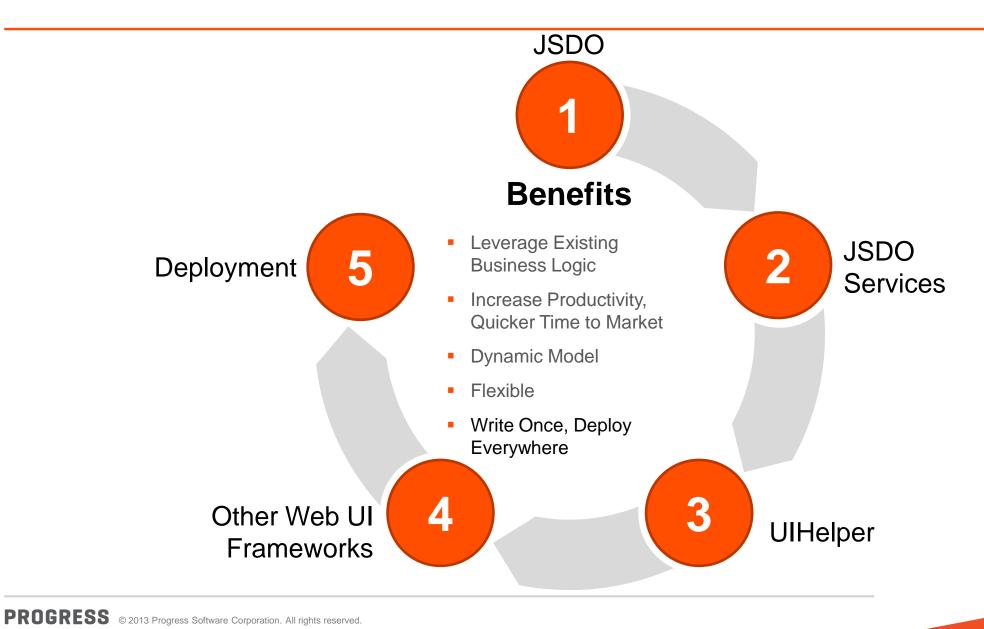
We are done!

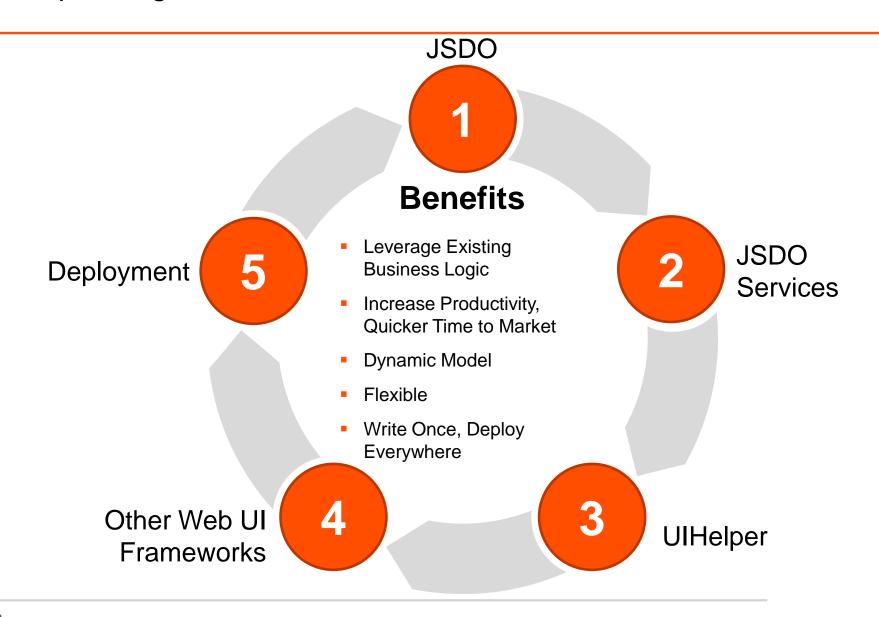
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Write Once, Run Anywhere Portability with the Benefits of Native Applications

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PROGRESS