

Progress OpenEdge Mobile 11.3

Workshop

Wouter Dupré
Systems Engineer, Sr.
October 9, 2013

TONIGHT
10c/11p

ALL NEW
AMERICA
UNEARTHED

H2



Welcome



- Fire exits
- No formal breaks
- Strict time schedule
- Questions during workshop

- Mobile App Showcase and Discussion *Shelley B. Chase and Ankur Goyal*
- Developing a State-of-the-Art, Self-Scanning Mobile App for Retail Stores with Progress® OpenEdge® Mobile *Brian Preece*
- How Simple Is It to Develop a Mobile App? *Uma Sudhan*
- Progress OpenEdge Mobile: Zero to Hero in Two Weeks *Chris Easton and Bob Brennan*
- The Age of Mobility – the Next Decade *Dr. Sheldon Borkin*
- Inside Progress OpenEdge Mobile: The JSDO, the Business Entity and Other Components *Edsel Garcia*
- Security and Session Management with Mobile Devices *Mike Jacobs and Wayne Henshaw*
- Progress OpenEdge Mobile and the Bits Involved *Anil Kumar*

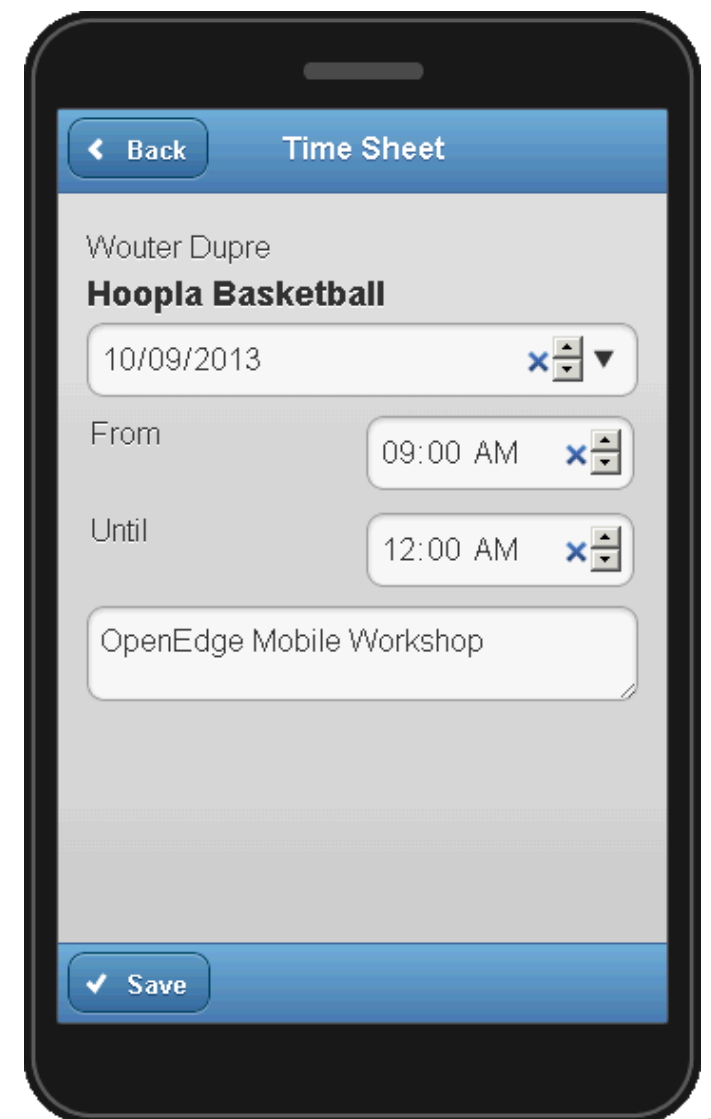
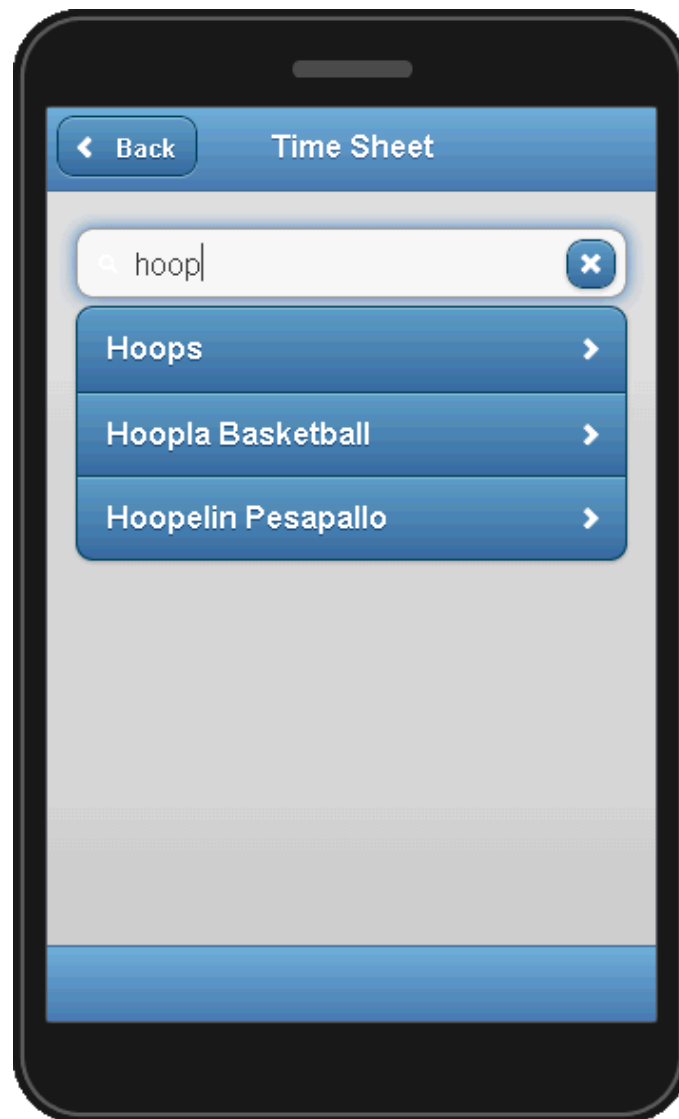
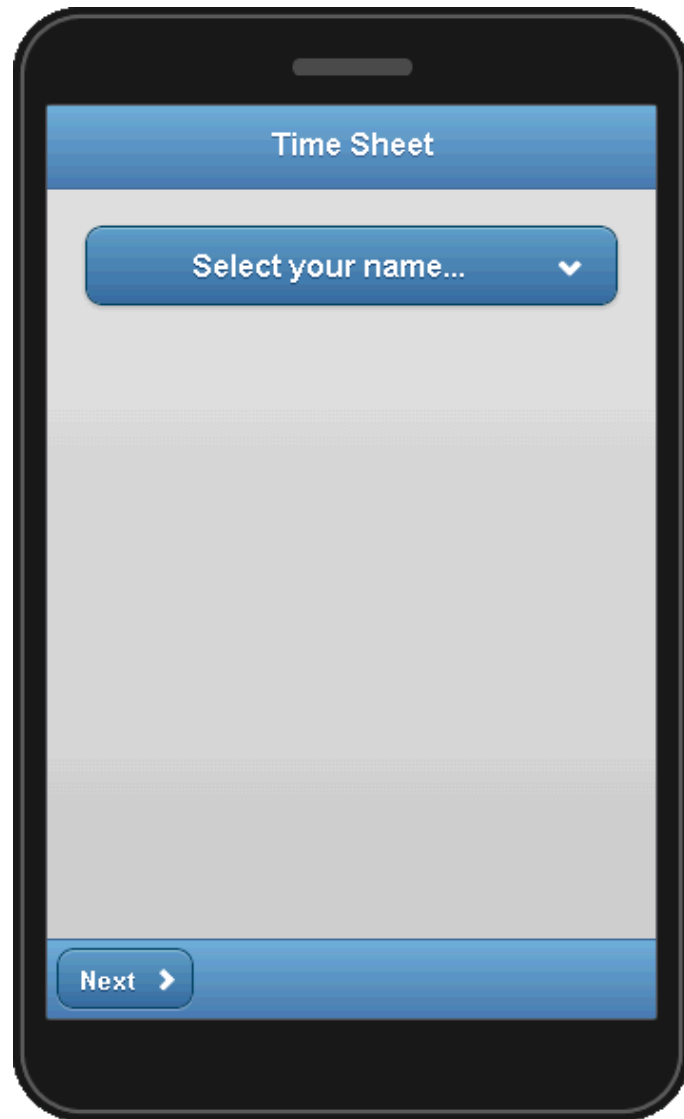
The Support Team

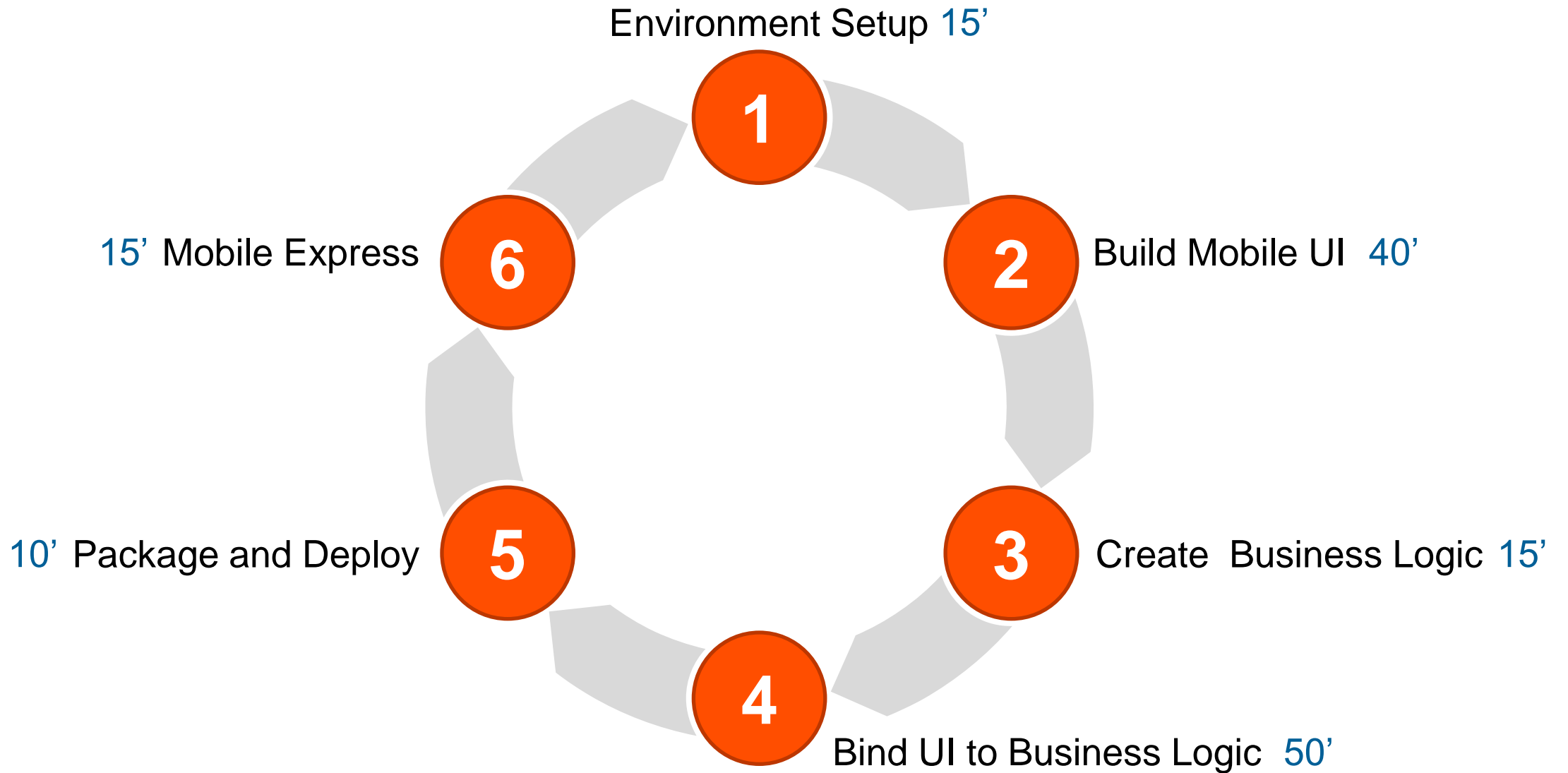
- From Progress Software
 - Edsel Garcia, Pr. Software Engineer
 - James De Vries, Sr. Systems Engineer
 - Jarmo Nieminen, Sr. Systems Engineer
 - Miguel Saez, Sr. Systems Engineer
 - Ricardo Perdigao, Sr. Systems Engineer
 - Sandra P. Caiado, Sr. Systems Engineer
 - Shelley B. Chase, Sr. Software Architect
 - Wouter Dupré, Sr. Systems Engineer
- Special guest from Exadel
 - Max Katz, Developer Relations

- Who has employees or colleagues that need to visit customers and need to log these visits?
- Who files these reports manually?
- Who does this in a desktop or browser application?

Why don't we create a Mobile App for this?

The Time Sheet Application





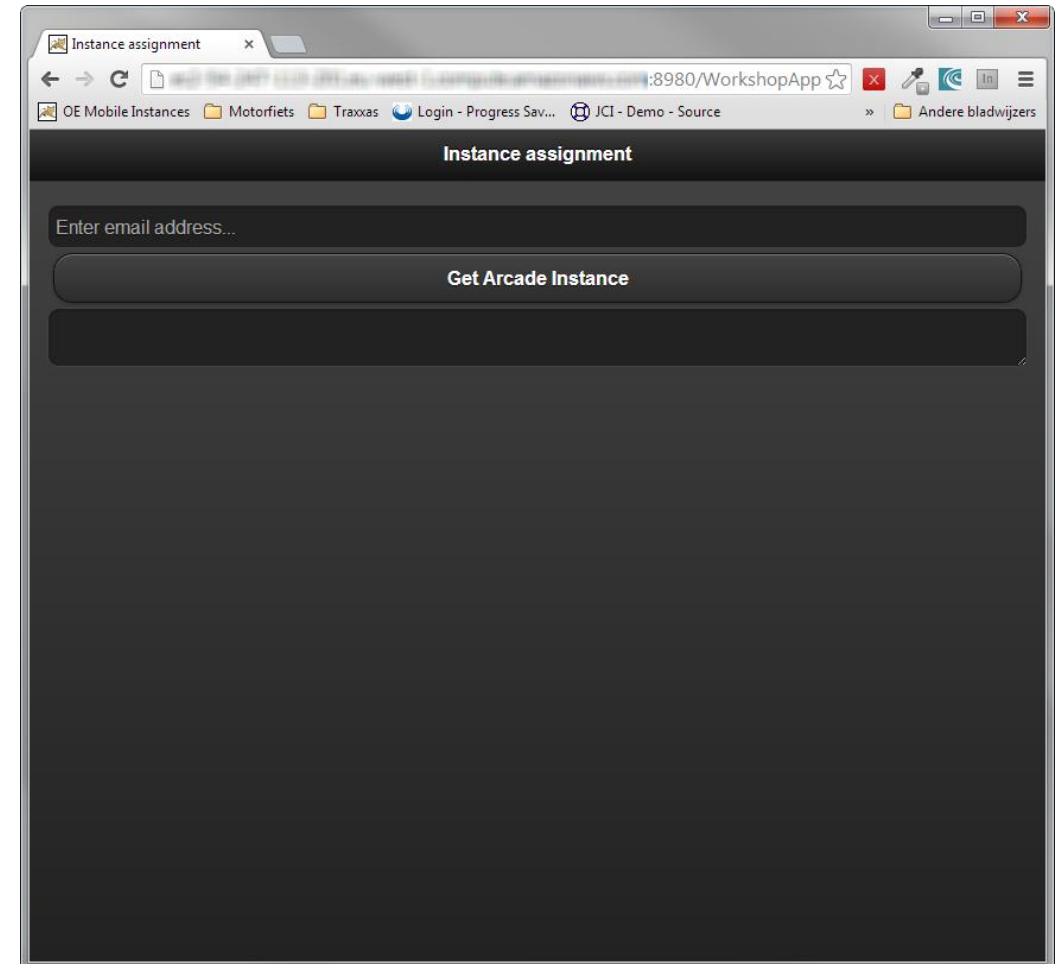
Environment Setup



Get Your Arcade Instance

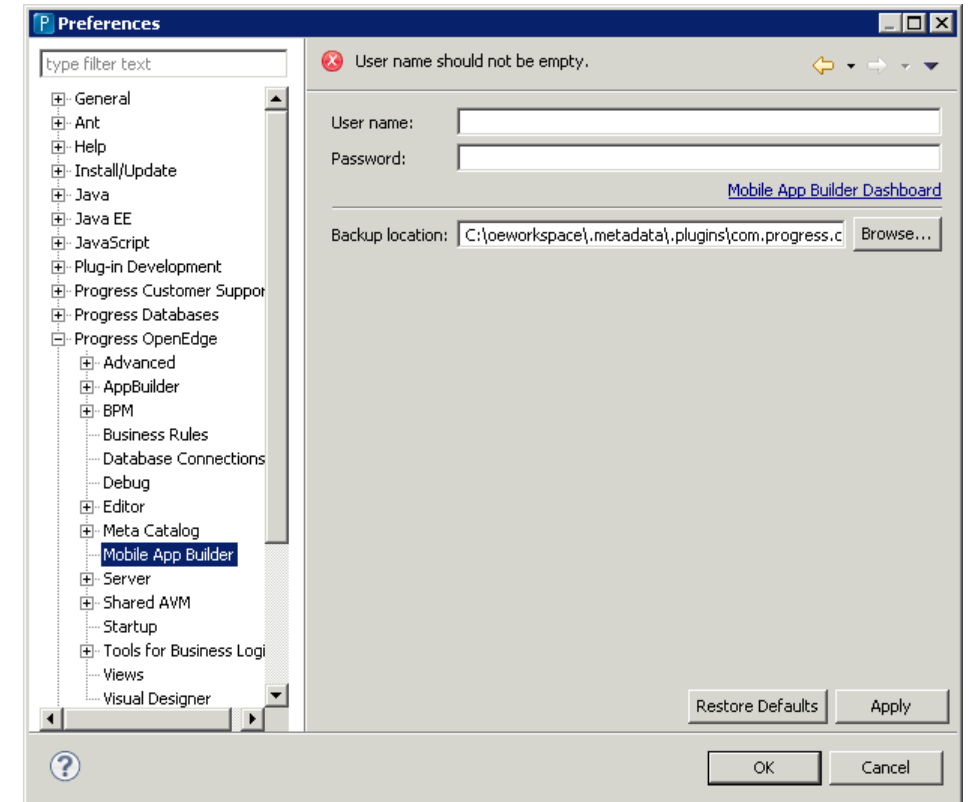
- Open a browser (Google Chrome, Mozilla Firefox or Apple Safari)
- Go to <http://23.23.210.136:8980/WorkshopApp>
- Enter your email address
- Press the button: Get Arcade Instance

This will give you a DNS for a running Arcade instance, which you can use to connect an RDP session.



Environment Setup (15')

- Connect to your Arcade instance
- Configure your development environment
 - Configure Developer Studio
 - Set up web browsers
 - Set up database connection
 - Set up Run Configuration
 - Start Servers
 - Create OpenEdge Mobile project

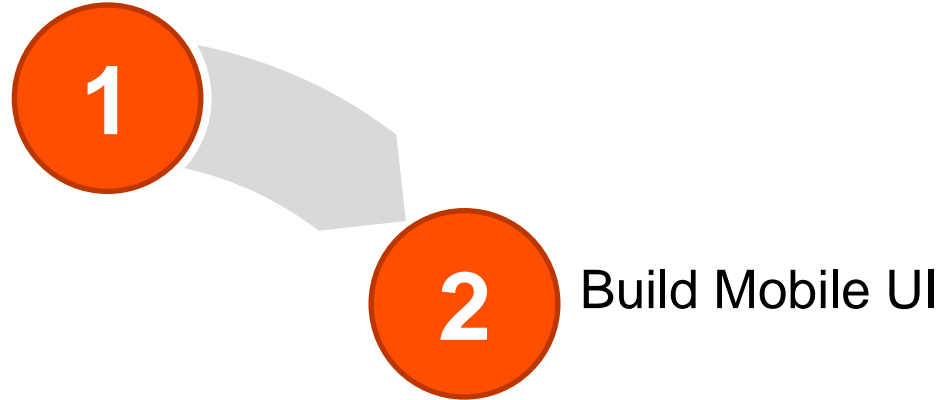


Environment Setup



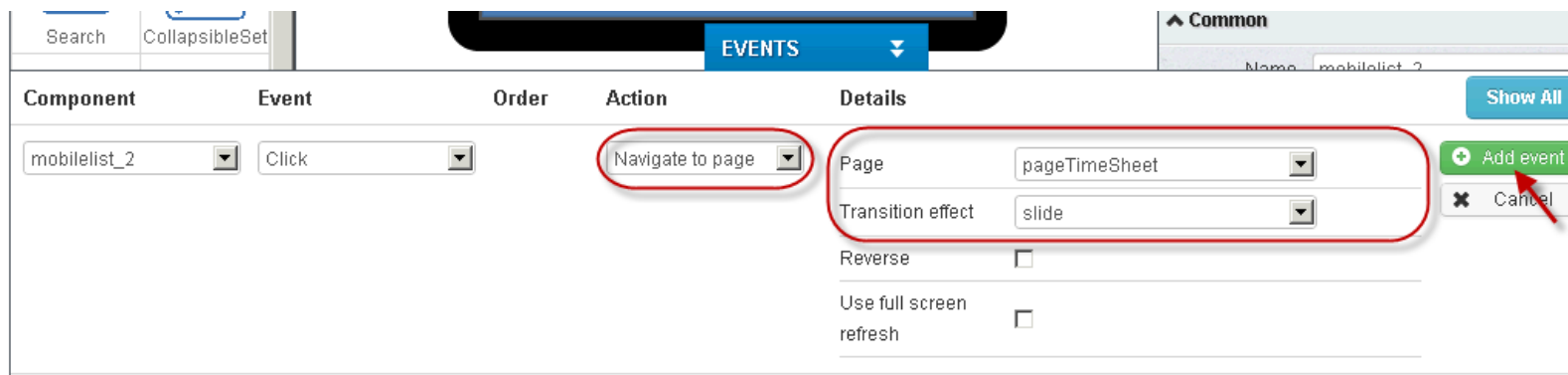
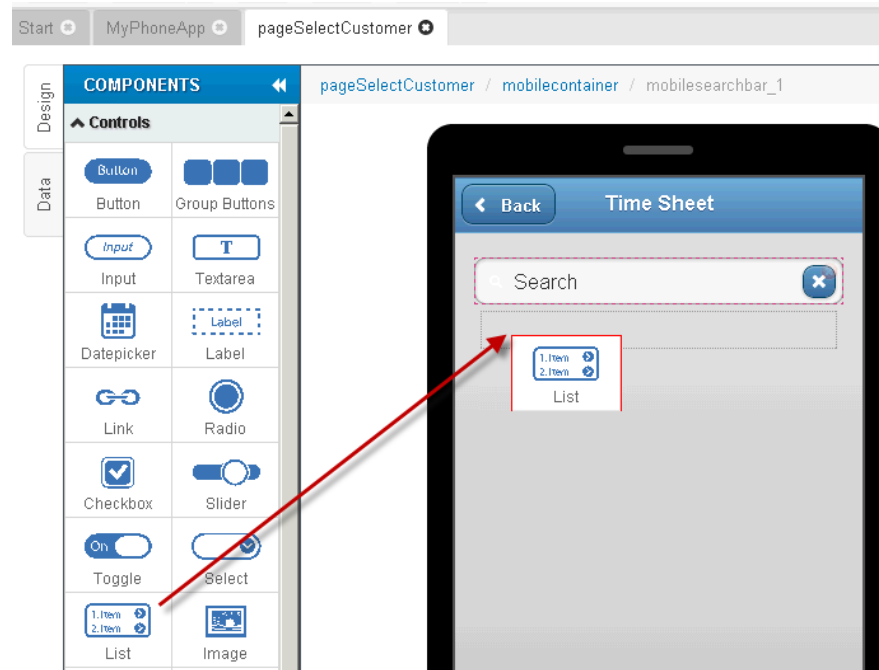
- Easy configuration

Environment Setup

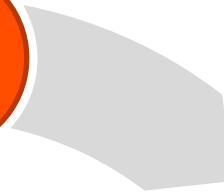


Build Mobile UI (40')

- Create 3 pages
 - Employee Selection
 - Customer Selection
 - Time sheet details
- Add events for navigation



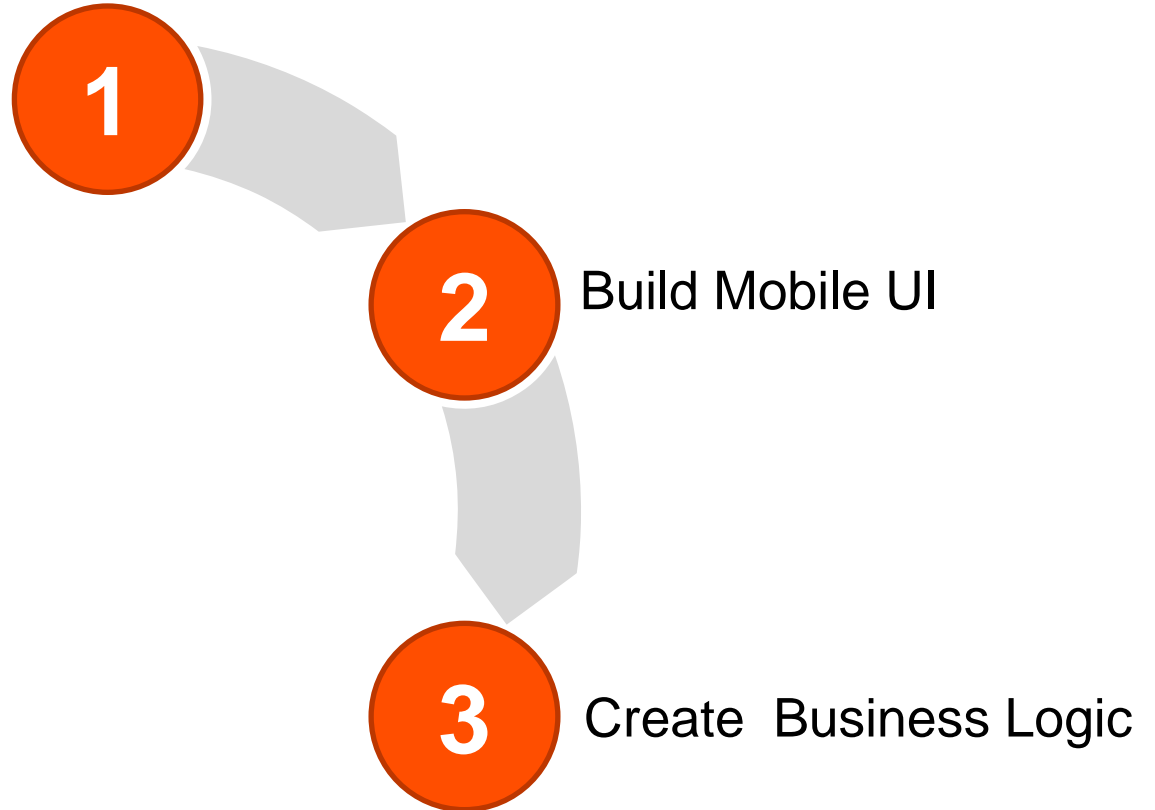
Environment Setup



Build Mobile UI

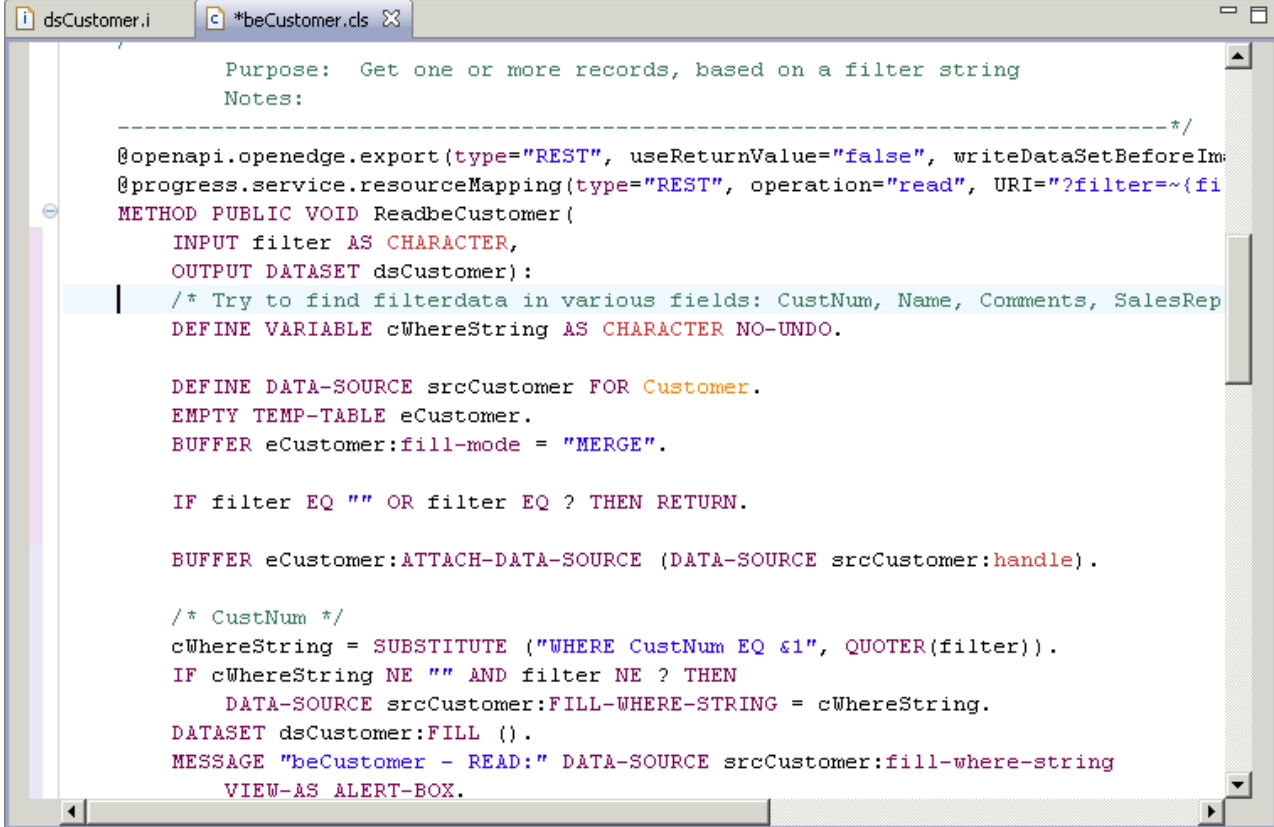
- Easy configuration
- Fast prototyping, no coding

Environment Setup



Create Business Logic (15')

- Create new Business Entity class
 - Add logic for Read operation
- Create Persistent Procedure
 - Add Internal Procedure
 - Define Service Interface
- Add to Mobile Service
- Build and publish to server



```
dsCustomer.i  *beCustomer.cls  X
```

```
      Purpose:  Get one or more records, based on a filter string
      Notes:
      -----*/
@openapi.openedge.export(type="REST", useReturnValue="false", writeDataSetBeforeIm
@progress.service.resourceMapping(type="REST", operation="read", URI="?filter=~(fi
METHOD PUBLIC VOID ReadbeCustomer(
    INPUT filter AS CHARACTER,
    OUTPUT DATASET dsCustomer):
/* Try to find filterdata in various fields: CustNum, Name, Comments, SalesRep
DEFINE VARIABLE cWhereString AS CHARACTER NO-UNDO.

DEFINE DATA-SOURCE srcCustomer FOR Customer.
EMPTY TEMP-TABLE eCustomer.
BUFFER eCustomer:fill-mode = "MERGE".

IF filter EQ "" OR filter EQ ? THEN RETURN.

BUFFER eCustomer:ATTACH-DATA-SOURCE (DATA-SOURCE srcCustomer:handle).

/* CustNum */
cWhereString = SUBSTITUTE ("WHERE CustNum EQ &1", QUOTER(filter)).
IF cWhereString NE "" AND filter NE ? THEN
    DATA-SOURCE srcCustomer:FILL-WHERE-STRING = cWhereString.
DATASET dsCustomer:FILL ().
MESSAGE "beCustomer - READ:" DATA-SOURCE srcCustomer:fill-where-string
VIEW-AS ALERT-BOX.
```

Environment Setup

1

2

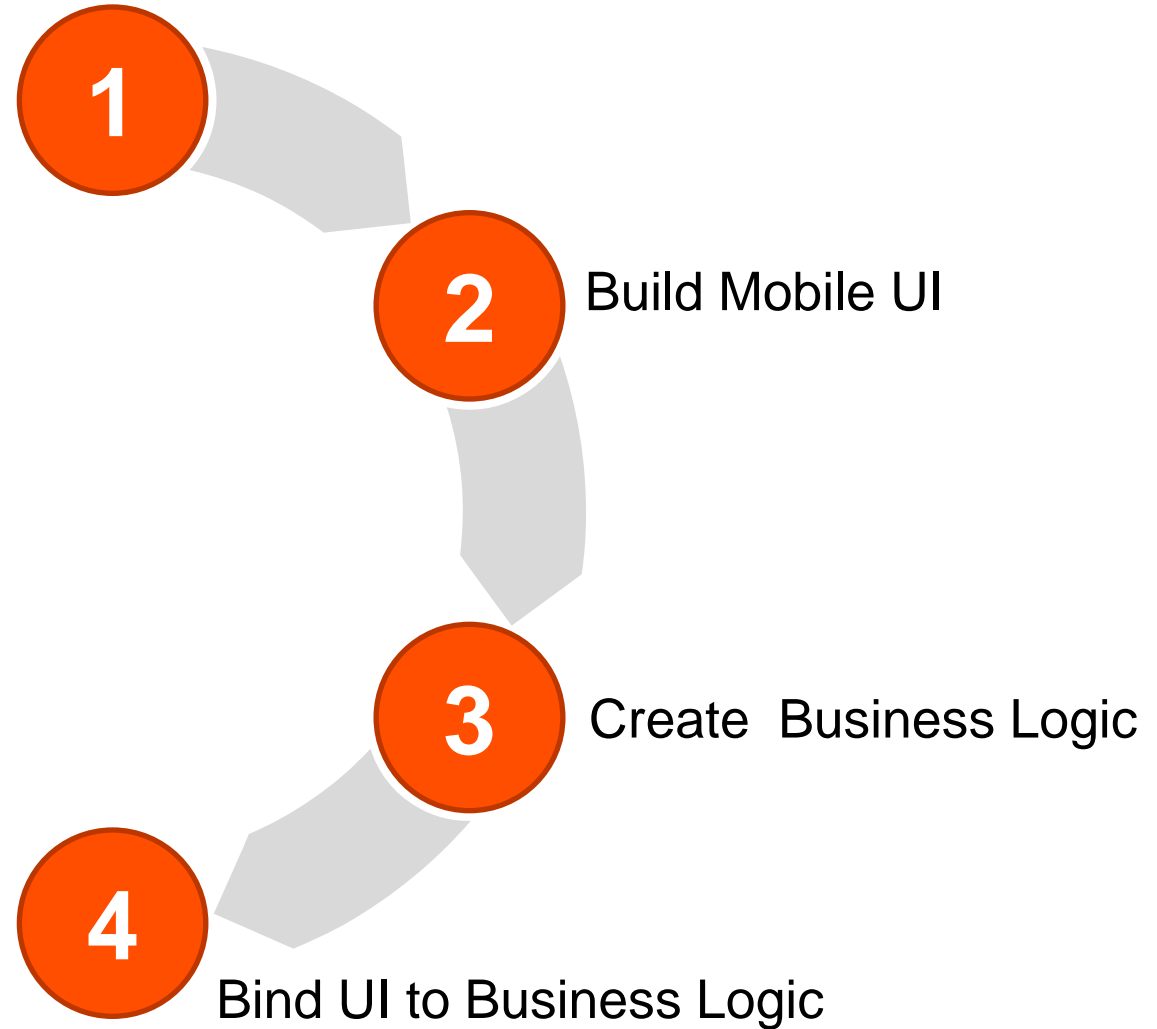
Build Mobile UI

- Easy configuration
- Fast prototyping, no coding
- REST to classes or procedural code

3

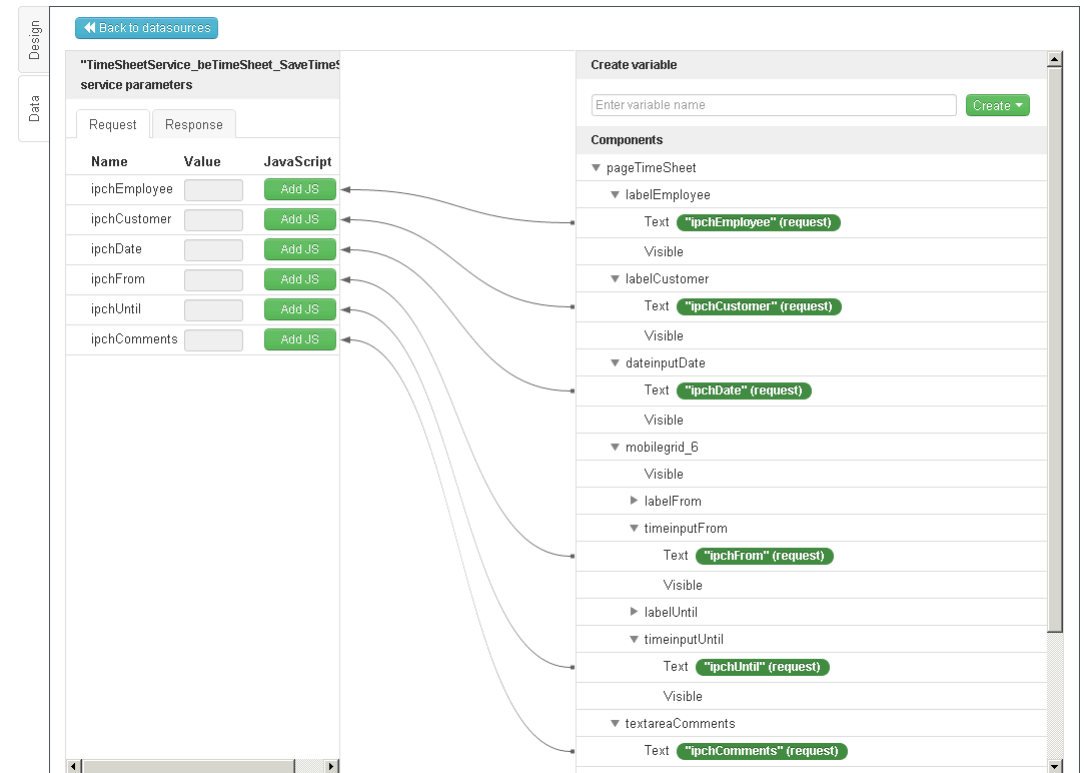
Create Business Logic

Environment Setup



Bind UI to Business Logic (50')

- Add JSDO Service to Mobile UI
- Complete the JSDO Settings
- Add Catalog to Load event on home page
- Add JSDO service to Customer Selection page
- Add Read service to Customer Selection page
- Edit Mapping between Read service and UI components
- Add Events to invoke Services



Environment Setup

1

2

Build Mobile UI

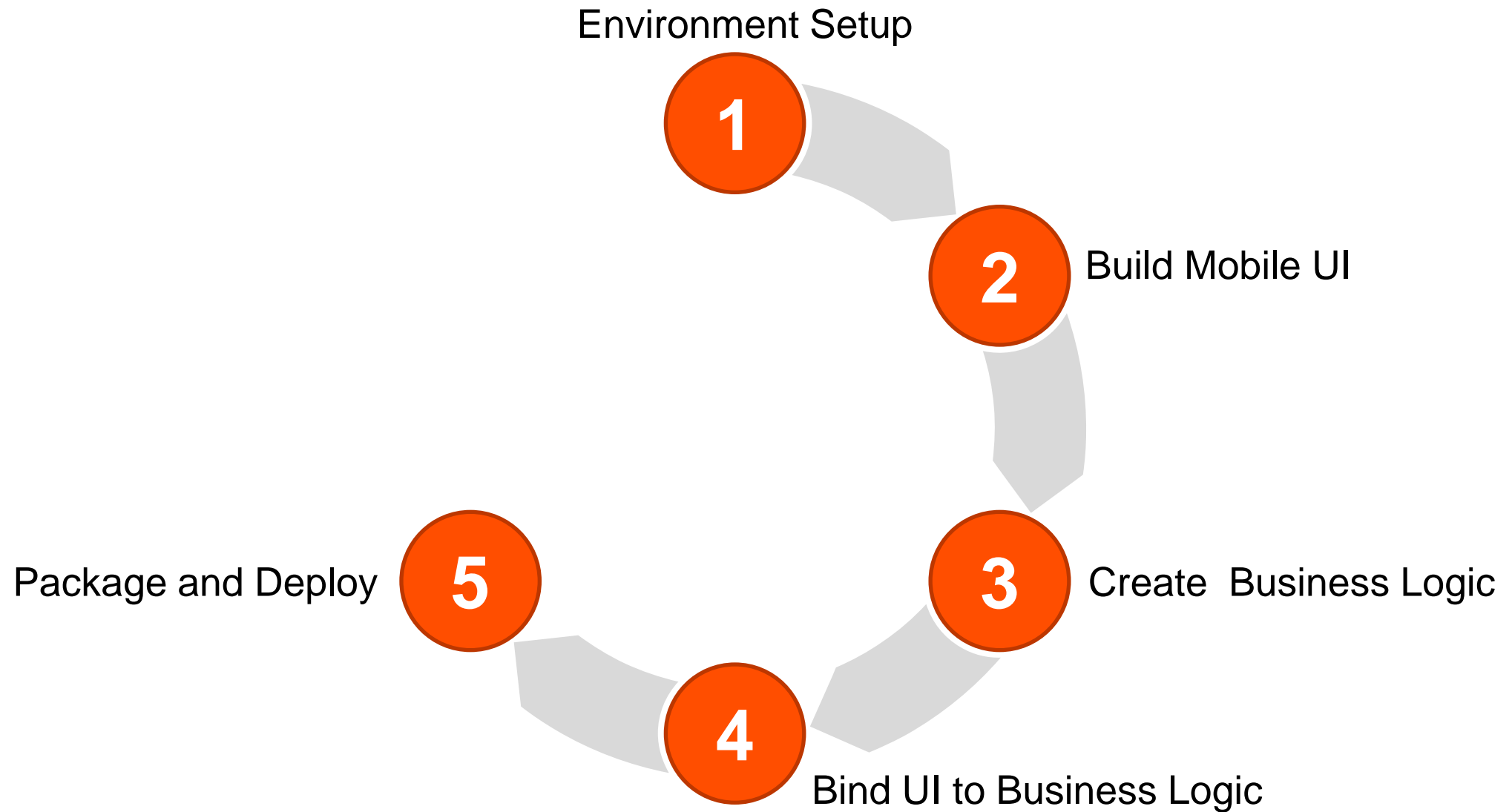
- Easy configuration
- Fast prototyping, no coding
- REST to classes or procedural code
- **Drag 'n Drop Mapping**

3

Create Business Logic

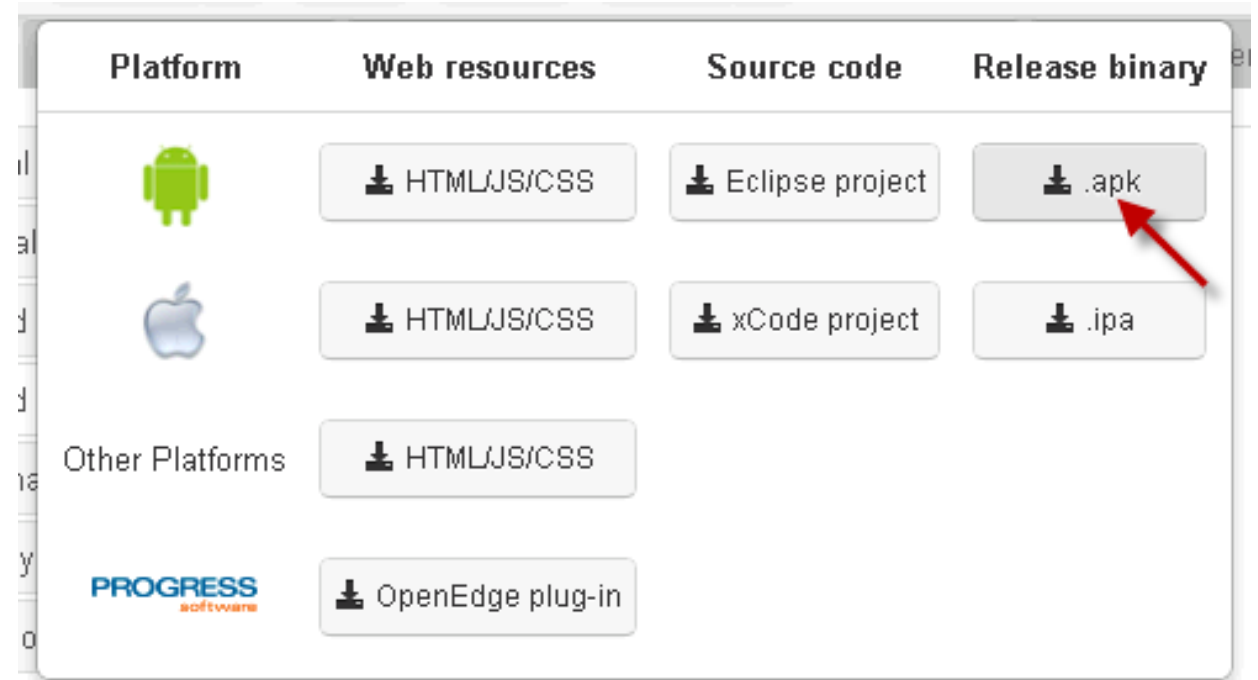
4

Bind UI to Business Logic



Package and Deploy (Android) (5')

- Complete Android Binary settings
- Set Android Permissions
- Export as .apk (build)
- Install on device

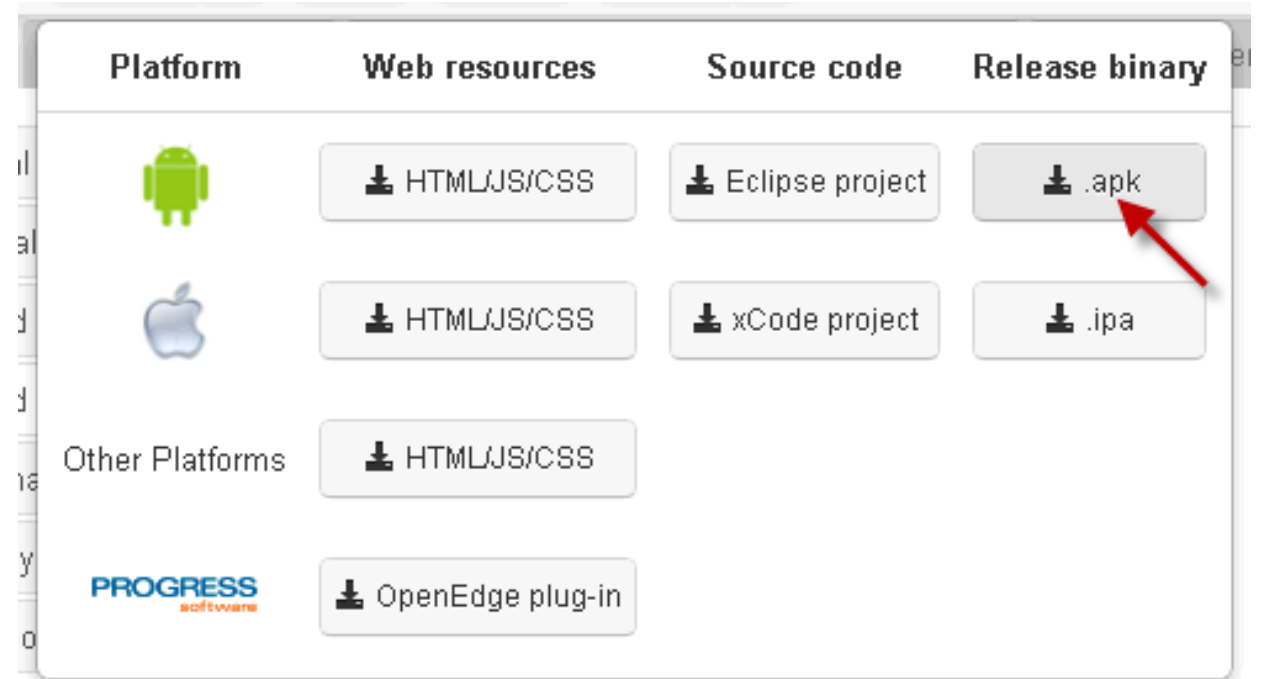


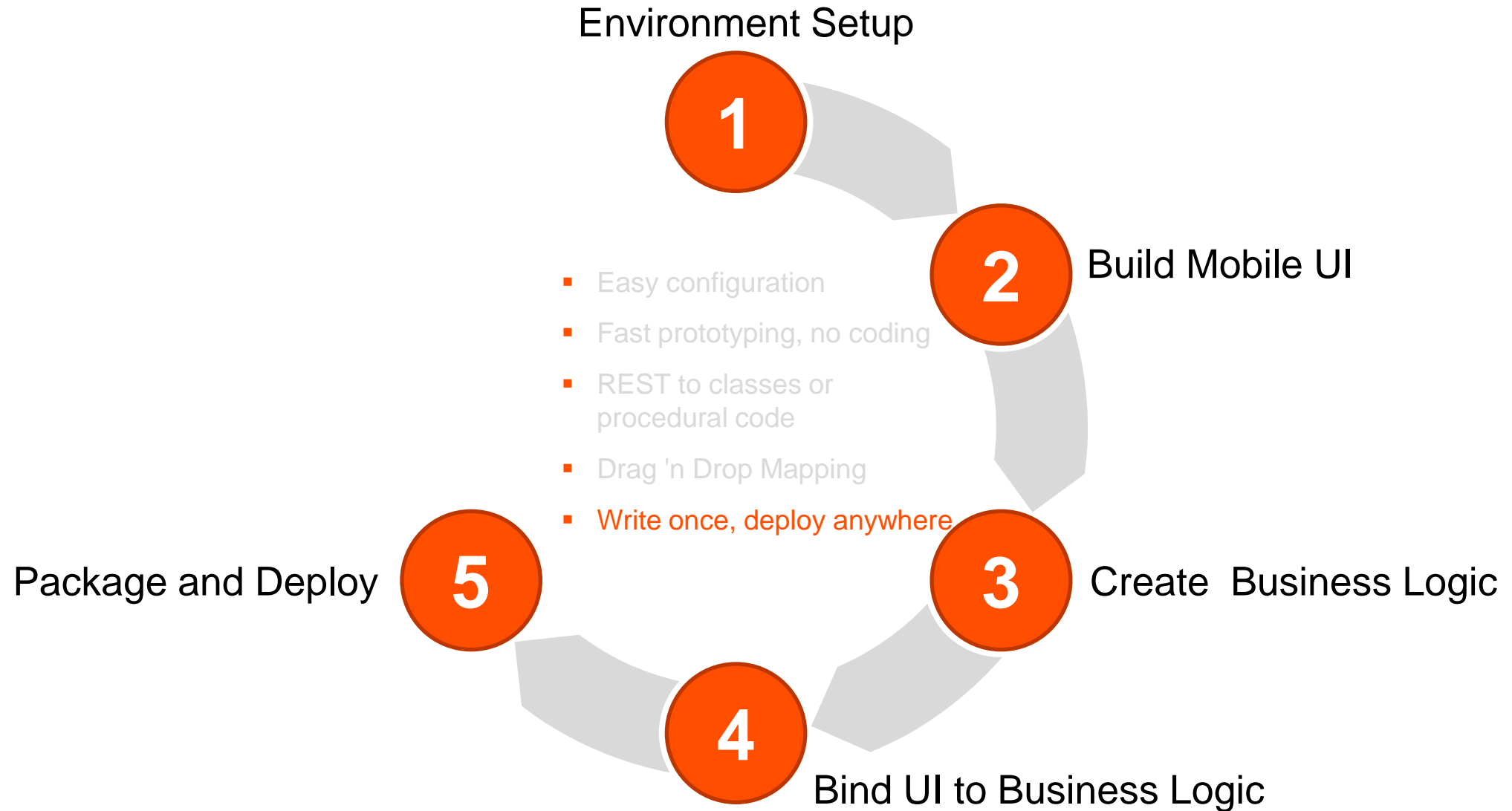
Package and Deploy (iOS – for testing) (5')

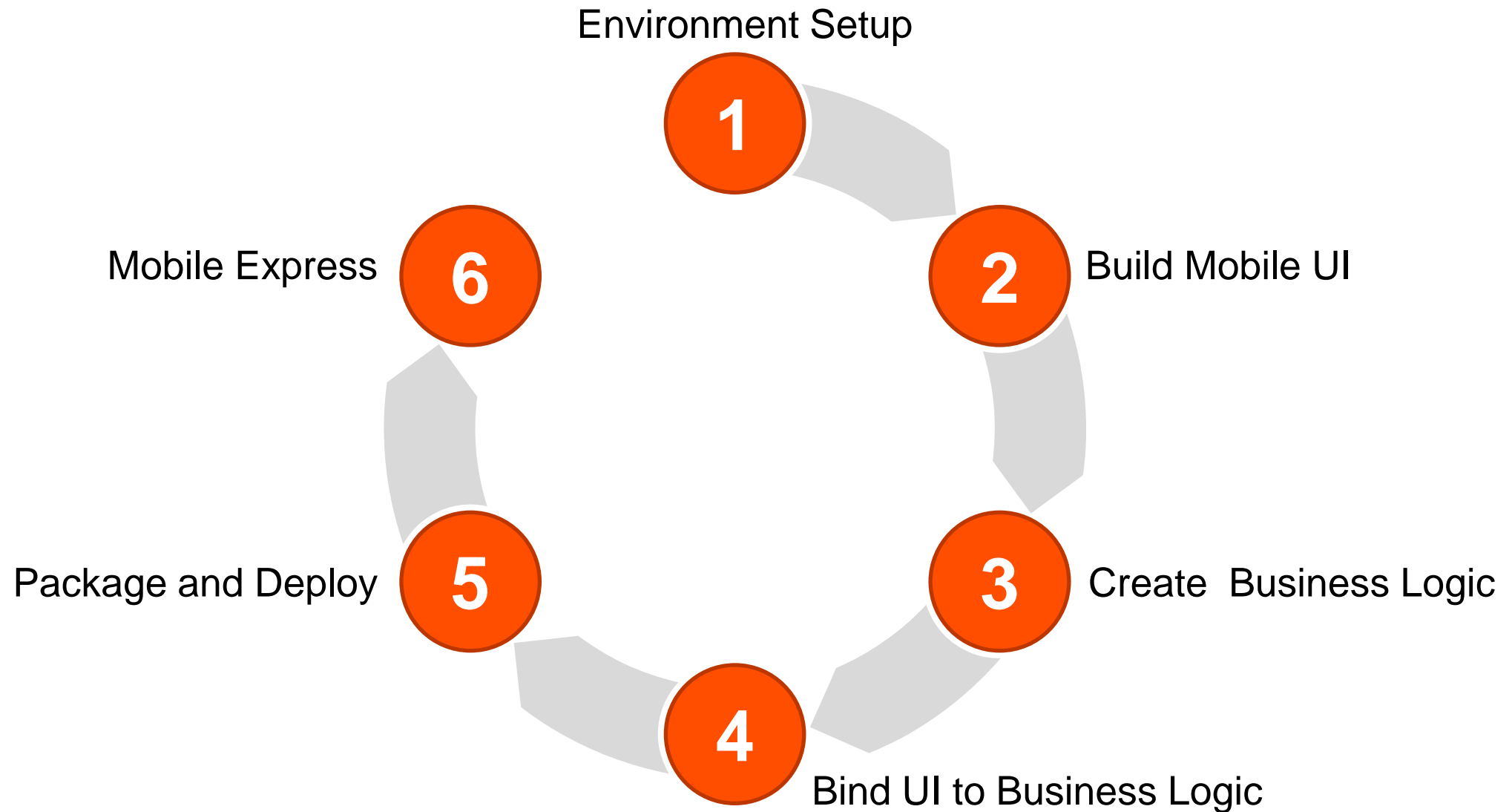
- Prework
 - Register as iOS developer
 - Create developer certificate
 - Set up Application
 - Set up Devices
 - Provision
- Complete iOS binary settings
- Set iOS keys
- Export as .ipa (build)

- Upload in iTunes
- Sync to your device

} or Scan QR code and install wirelessly



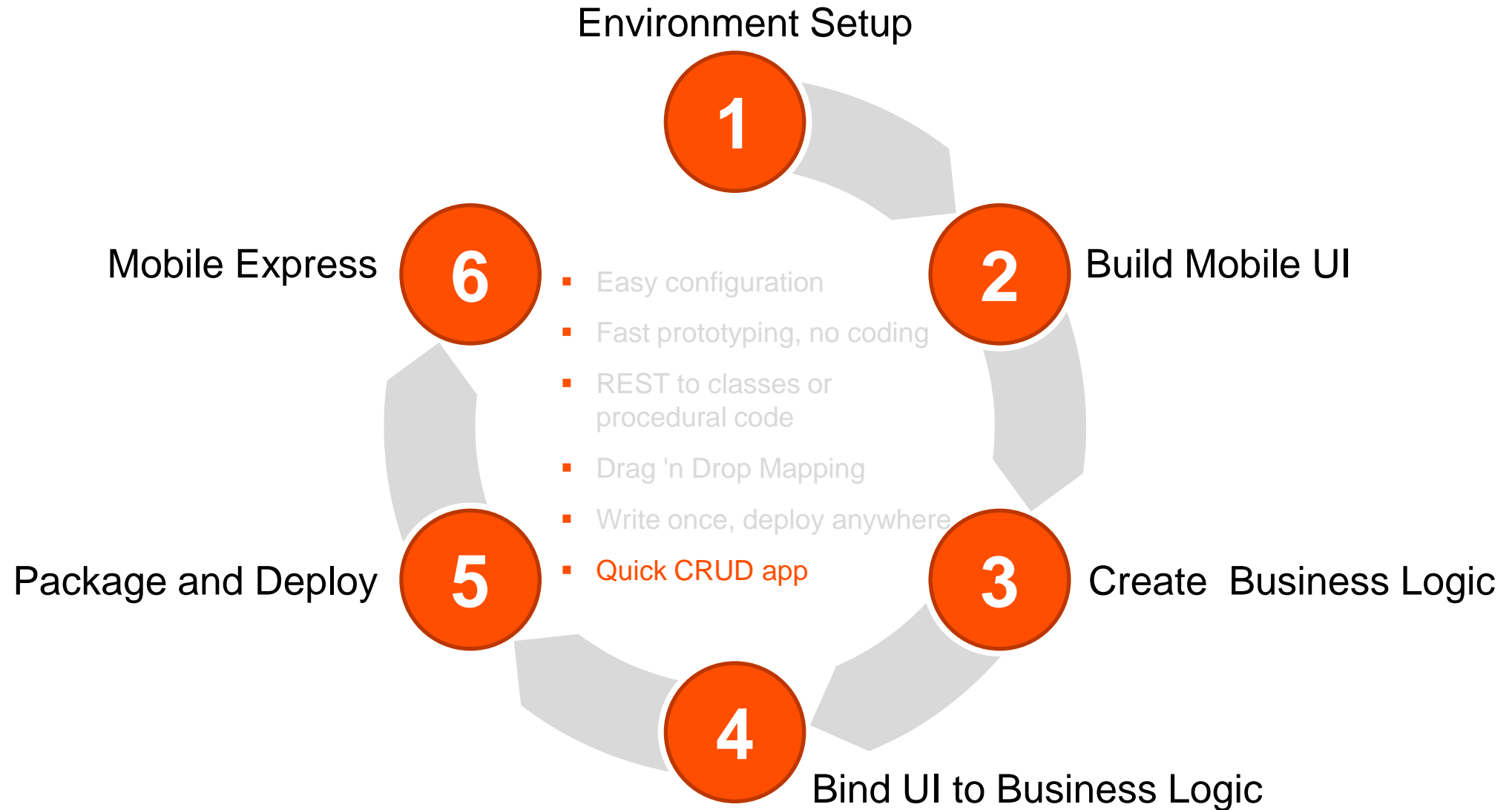


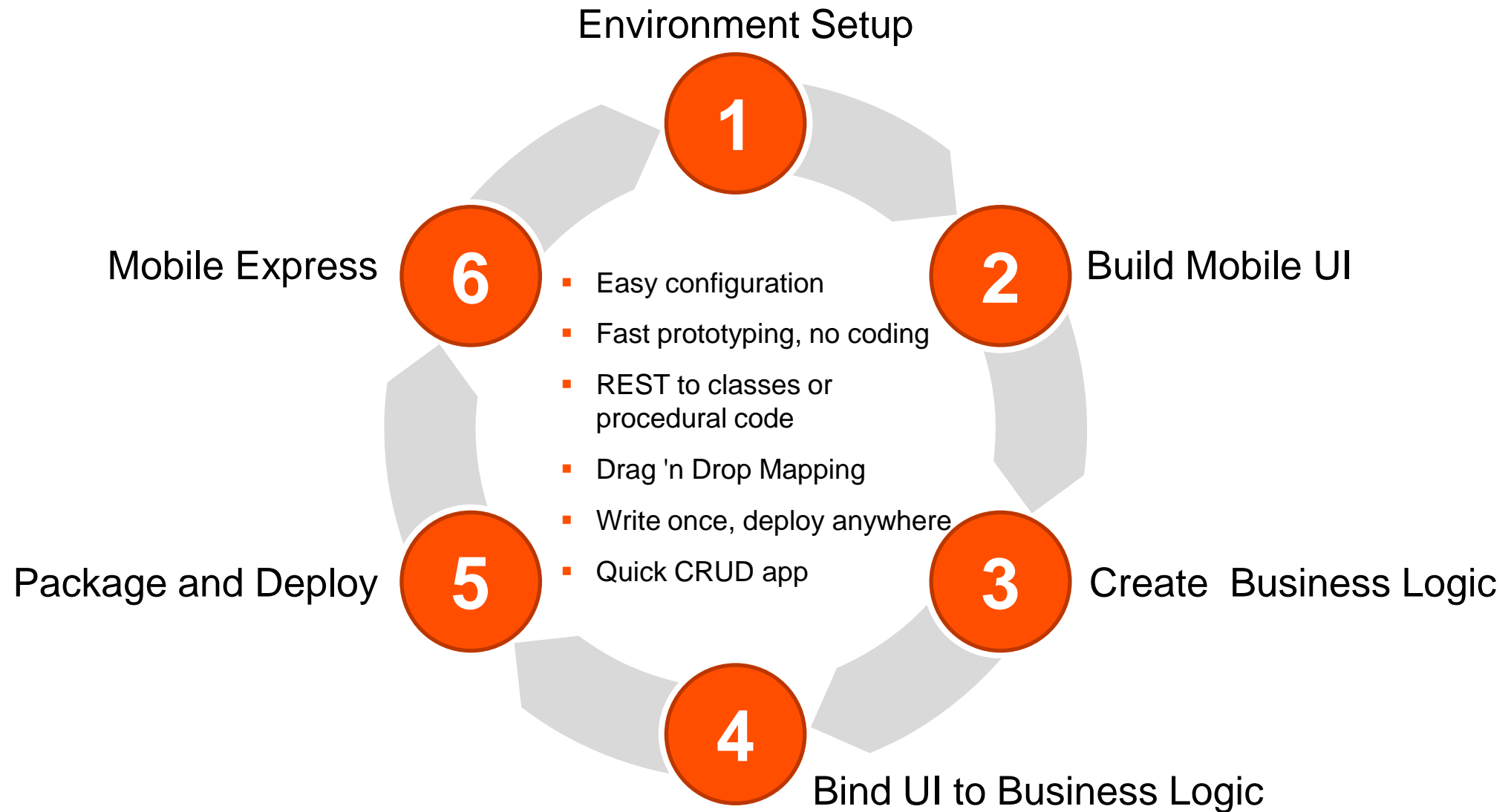


Mobile Express (15')

- Warehouse maintenance
- Complete CRUD supported mobile app in minutes







Now What?

- Fully convinced?
 - Get your full license
 - Get further training
 - Get consultancy
- Not fully convinced yet?
 - Get your evaluation license for OpenEdge 11.3
 - Talk to your Systems Engineer and Account Manager
- Safe travels!!!



PROGRESS