ELEVATE 2018 RECAP SEMINAR

PowerBuilder User Regional Seminar – Barcelona, Spain

Hotel NH Sants Barcelona

PowerServer 2018 Sneak Peek

Cloud Apps

Web Apps

Desktop Apps

Marco MEONI
27-28 November 2018

APPEON

DISCLAIMER

Presentation
Agenda

- PowerServer 2018
  - JSONGenerator
  - JSONParser
  - HTTPClient
  - RESTClient
- Demo
- Outlook

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Author
Profile

Marco MEONI

(in) linkedin.com/in/meonimarco

(twitter) twitter.com/marcomeoni

(g+) pb_support@softpi.com

Key Skills

- Appeon MVP
- PowerServer
- Big Data
- PowerBuilder
- Machine Learning

Recent Projects

- **2013** - Dutch Ministry of Tax: migration to Web of 3GB of PB code
- **2016** - Cloud-based Appeon Web portal for Healthcare systems
- **2017** - Predictive Models for dataset caching on CERN Big Data

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PowerServer
What it is
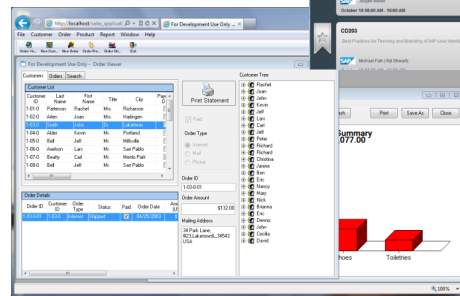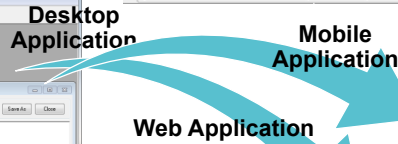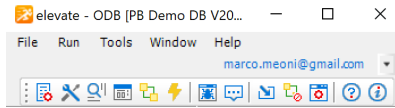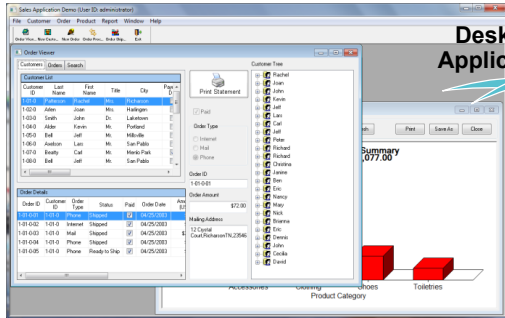
- Toolkit included into PB
- Deploy .Net & Java Applications
- Development remains in PB

Desktop Application

Mobile Application

Web Application

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PB R3
Features

✔NativePDF Enhancements
✔REST/JSON Enhancements
✔OAuth (New Feature)
✔Encryption (New Feature)
✔PostgreSQL Enhancements

✔REST DataWindowChild
✔SQL Server 2017

Available in PS 2018

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JSON
Manipulation

- `JSONParser.LoadString( ls_json )`
- `JSONParser.GetRootItem( )`
- `JSONParser.GetChildCount( ll_root )`
- `JSONParser.GetChildItem( ll_root, ll_index )`
- `JSONParser.GetItemXXX()`

- `JSONGenerator.CreateJsonObject()`
- `JSONGenerator.AddItemArray(ll_root, "items")`
- `JSONGenerator.AddItemObject(ll_childArray)`
- `JSONGenerator.AddItemXXX()`

HTTPClient
API

- `httpClient.SendRequest ( methodName, urlName, data, encodingType )`
  - `GET, POST, PUT, DELETE, OPTIONS, TRACE, HEAD, CONNECT`
- `httpClient.GetResponseHeader ( headerName ); httpClient.GetResponseHeaders ( )`
  - `"Content-Type","Content-Length","Charset", …`
- `httpClient.GetResponseStatusCode ( )`
- `httpClient.GetResponseBody ( data )`
- `httpClient.GetResponseBody ( data, encodingType )`
- `httpClient.SetRequestHeader ( headerName, headerValue )`
- `httpClient.GetRequestHeader ( headerName ); httpClient.GetRequestHeaders()`
  - `"Accept-Encoding","Connection","User-Agent","Cache-Control", …`
- `httpClient.PostData ( data, bufferSize )`
- `httpClient.SecureProtocol`
  - `1:SSL 2, 2:SSL 3, 3:TLS 1.0, 4:TLS 1.1, 5:TLS 1.2`

RESTClient
API

- restClient.GetRequestHeader (headerName)
- restClient.GetRequestHeaders()
- restClient.GetResponseHeader (headerName)
- restClient.GetResponseHeaders ( )
- restClient.GetResponseStatusCode ( )
- restClient.SetRequestHeader (headerName, headerValue)

- restClient.SecureProtocol

- restClient.Retrieve(dwControl, urlName {, data} {, tokenrequest}))

Demo

What's Next

PB R3
Features

✔NativePDF Enhancements   ✔REST DataWindowChild
✔REST/JSON Enhancements   ✔SQL Server 2017
✔OAuth (New Feature)
✔Encryption (New Feature)
✔PostgreSQL Enhancements

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Thank you!

Questions?

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Thank You