

# Progress Developer Studio for OpenEdge

## Workshop

Srinivas Kantipudi  
Senior Manager  
October 9, 2013

**PROGRESS**  
**EXCHANGE** 2013  
DISCOVER. DEVELOP. DELIVER.

# The Support Team

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- Patricia Haversat, Sr. Systems Engineer
- Matt Baker, Principal Engineer
- Swathi Yellavaram, Principal Engineer
- Srinivas Kantipudi, Sr. Manager

# The Support Team

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- Srinivas Kantipudi, Sr. Manager
- Mary Criscione, Manager
- Matt Baker, Principal Engineer
- Swathi Yellavaram, Principal Engineer
- Carole Miller, Sr. Systems Engineer
- Jean Munro , Sr. Systems Engineer
- Anil Kumar, Sr. Engineer
- Divyatheja Pachipula , Sr. Engineer

## Introduction – In This Workshop You Will Learn

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- How Progress Developer Studio for OpenEdge features and tools make it easy to develop OpenEdge applications
- How to customize Progress Developer Studio for OpenEdge project-based development environment
- How to use Progress Developer Studio for OpenEdge to configure, develop, test, debug and publish OpenEdge application code
- How to use different development environments available in Progress Developer Studio for OpenEdge to create applications

# Schedule

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11:30 – 12:00 pm	Lab 5	
Q&A		

# Schedule

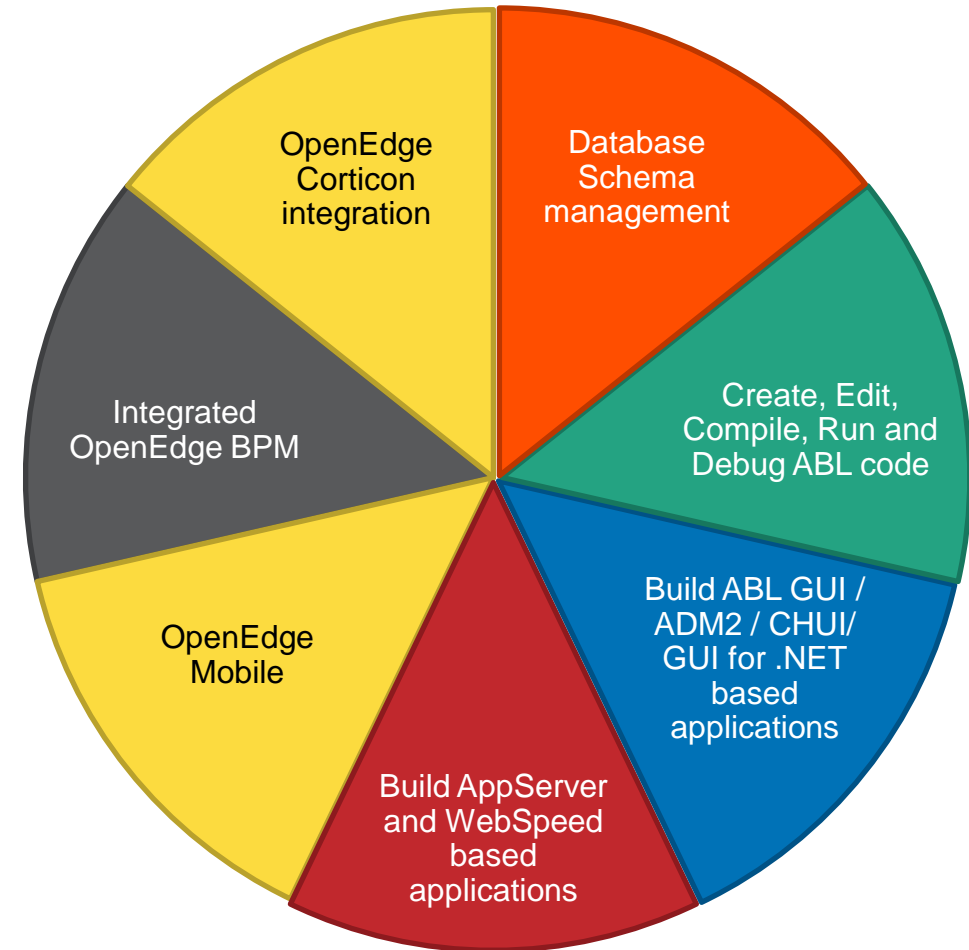
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# Progress Developer Studio for OpenEdge

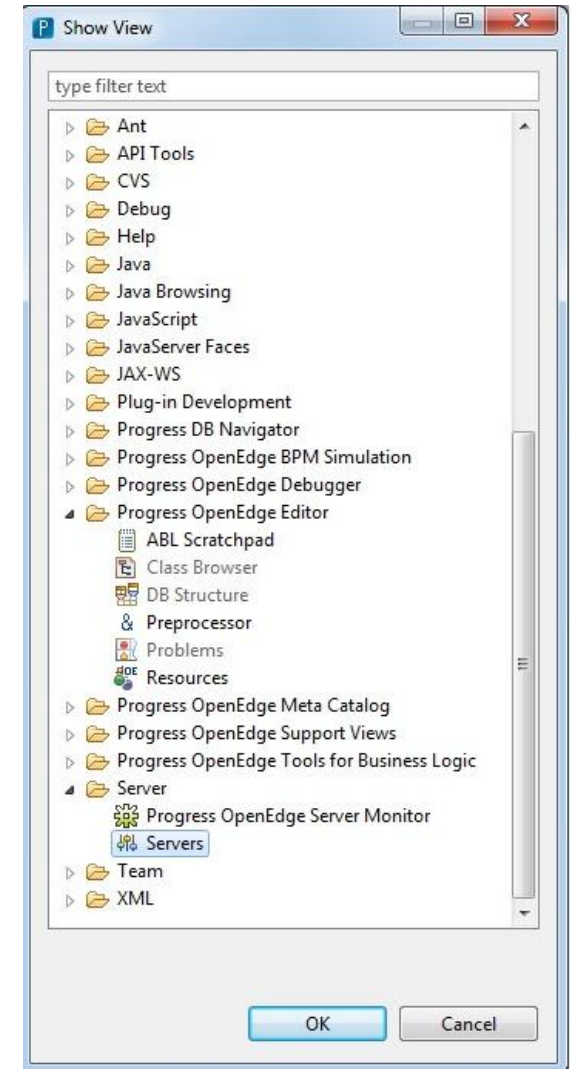
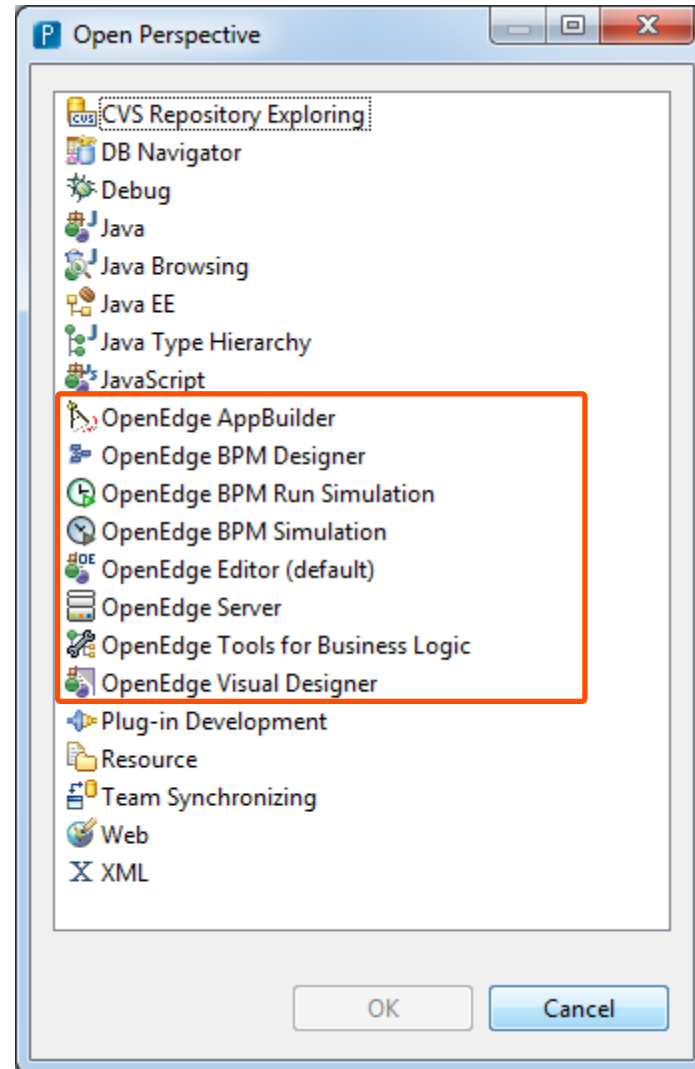
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- Built on top of Eclipse
- Complete support for all development needs
  - Configure, Develop, Compile, Run, Debug, Publish
- Advanced editing capabilities
- Wide variety of development environments
- Customization at various levels
- Complete support for Database management



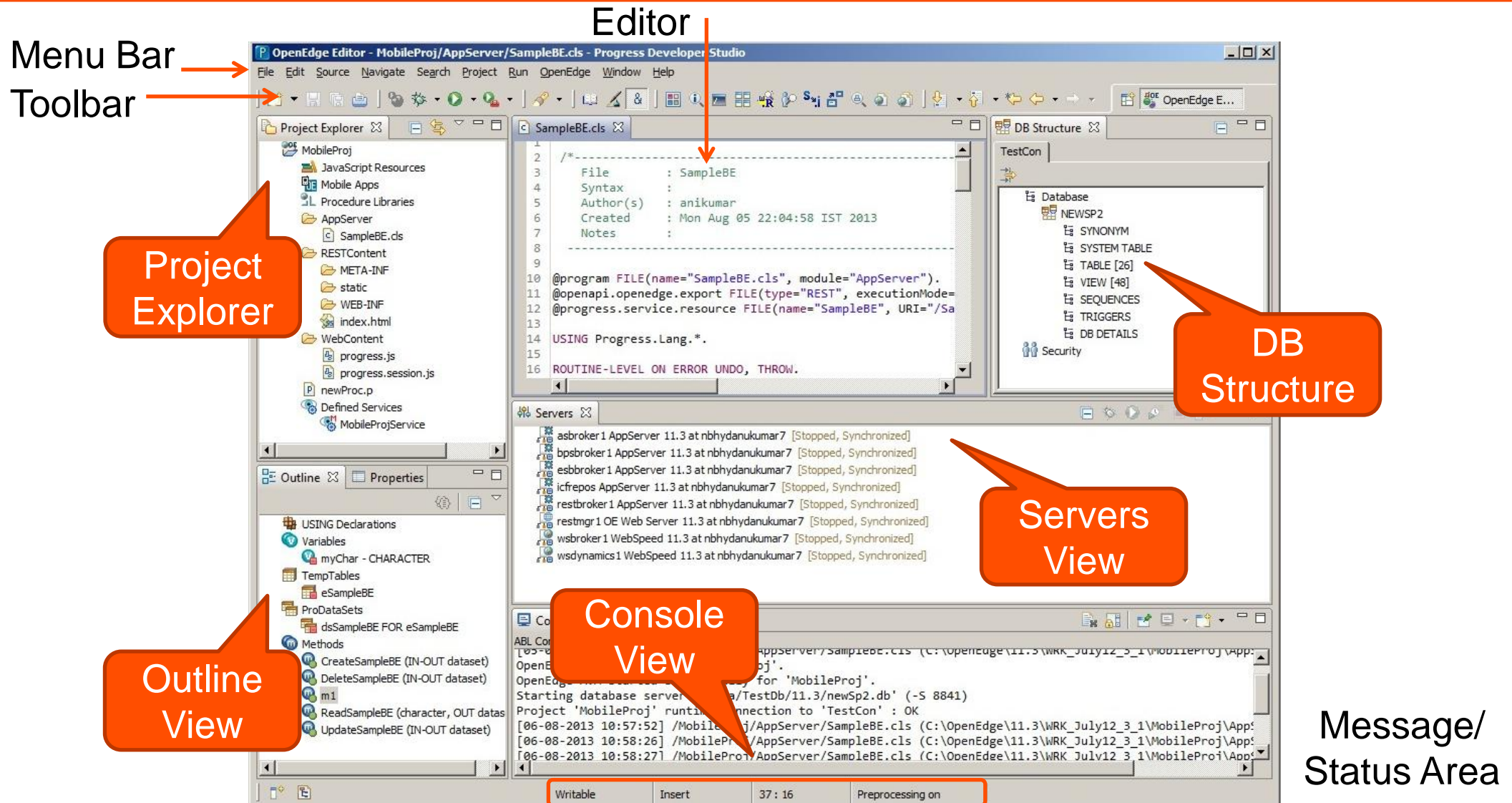
# Perspectives and Views

- Perspectives defines initial set and layout of views in Workbench
  - Arrangements of views, menu, toolbar and editors.
- Different perspectives suited for different user tasks
- Users can quickly switch between perspectives
- Views augment Editors





# PDSOE at a Glance



# Project Types

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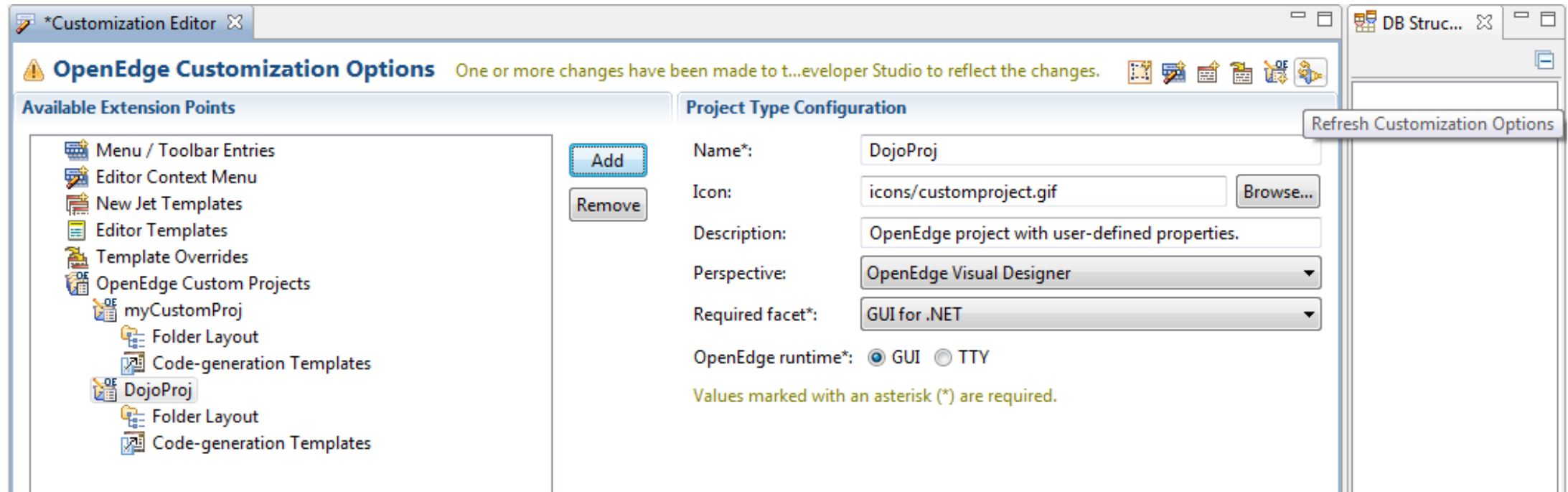
- OpenEdge Project is facet based
  - Specific project type for each development domain
  - Ability to create custom project types
  - Advantages
    - Provides better visibility and organization of code
    - Tailored functionality based on the project type

## Different Project Types

10.2B	11.0	11.2
<ul style="list-style-type: none"><li>■ OpenEdge</li><li>■ AppServer</li></ul>	<ul style="list-style-type: none"><li>■ WebSpeed</li><li>■ GUI for .NET</li><li>■ Dynamics</li><li>■ Static web</li><li>■ ChUI</li></ul>	<ul style="list-style-type: none"><li>■ REST</li><li>■ Mobile</li></ul>

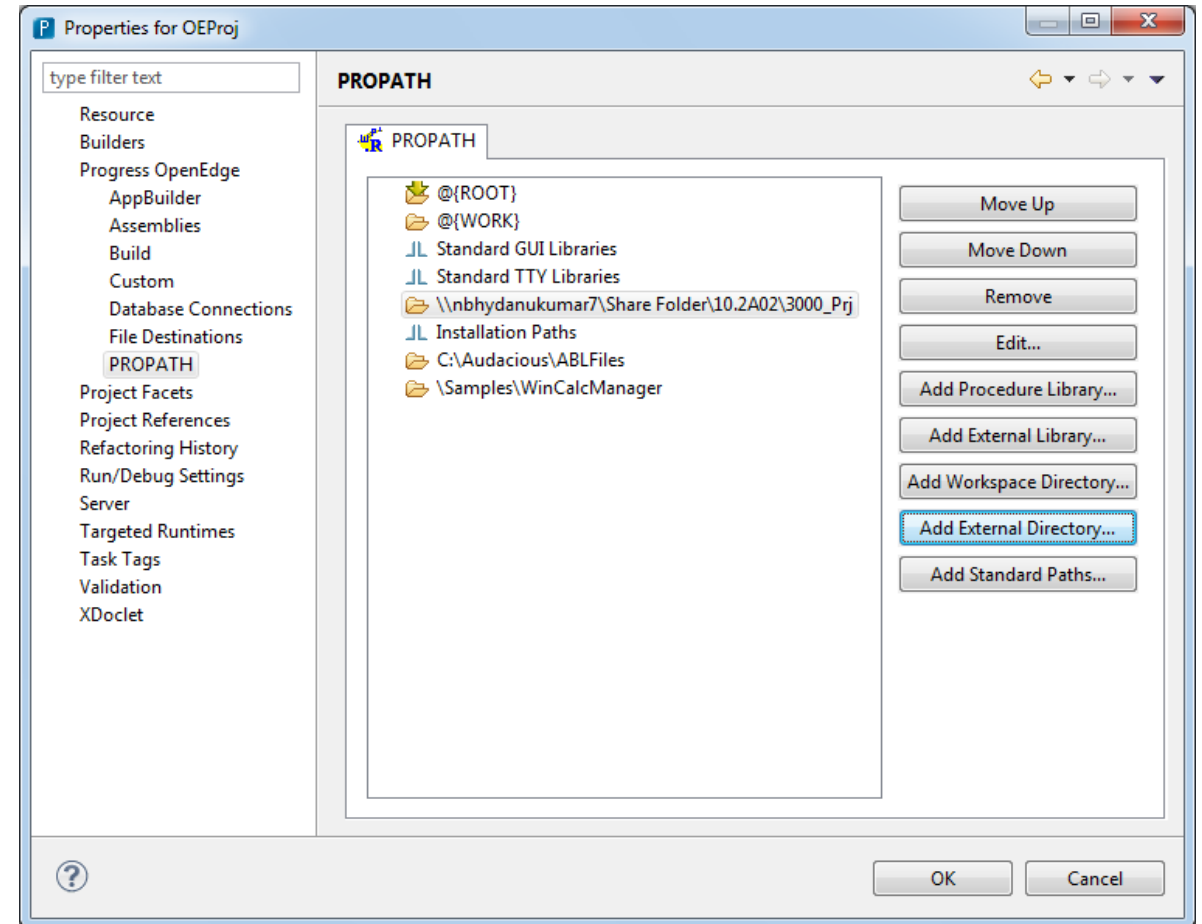
# Custom Project Types

- Done using the Customization Editor
  - Tree node named OpenEdge Custom Projects
- A custom project type's details are stored in the extensibility user plug-in
  - Share by making this plug-in available in other Eclipse environments



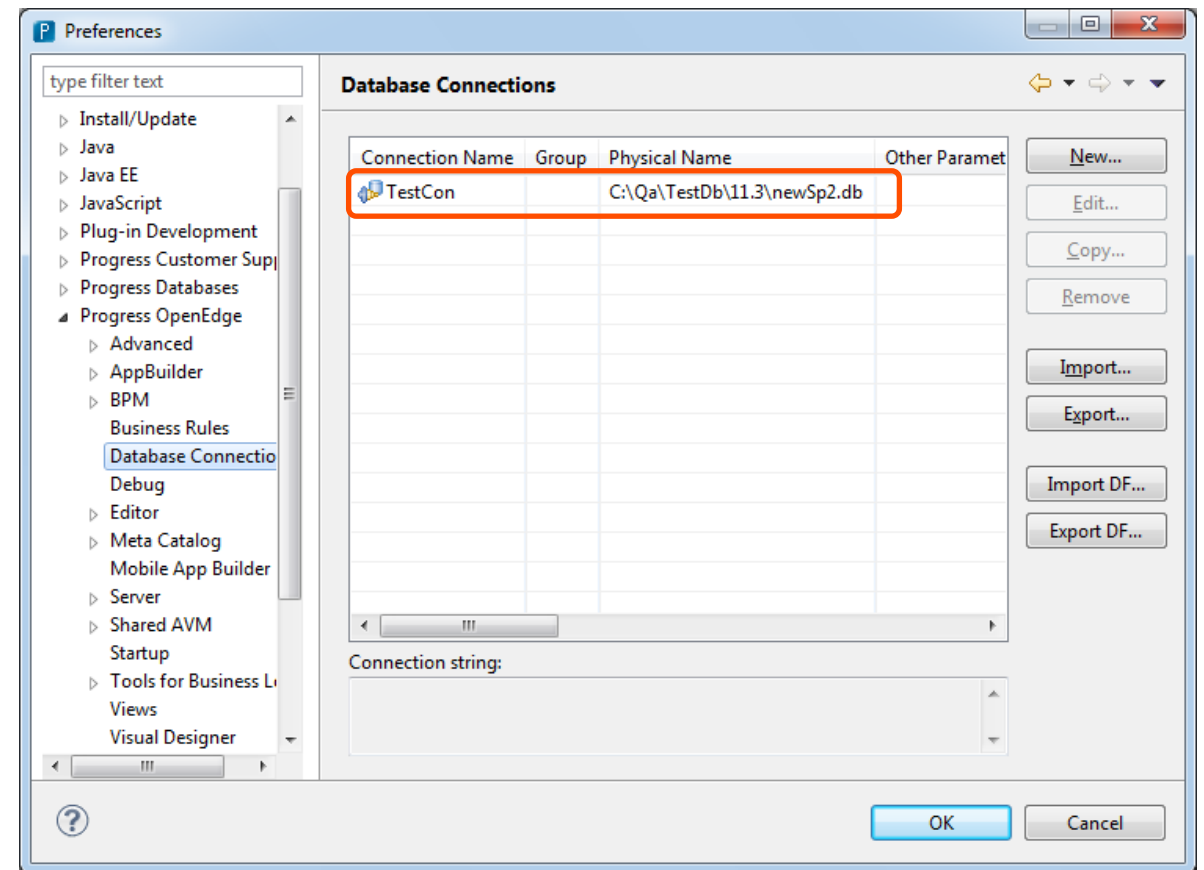
# PROPATH

- Maintains list of entries where the AVM searches for files and procedures
- Every OpenEdge project has its own PROPATH
- OpenEdge projects use an xml file (.propath) in the project's root directory to store PROPATH information
- Including network paths can also be part of the PROPATH list
- OpenEdge AVM closely monitors for any changes made to PROPATH page



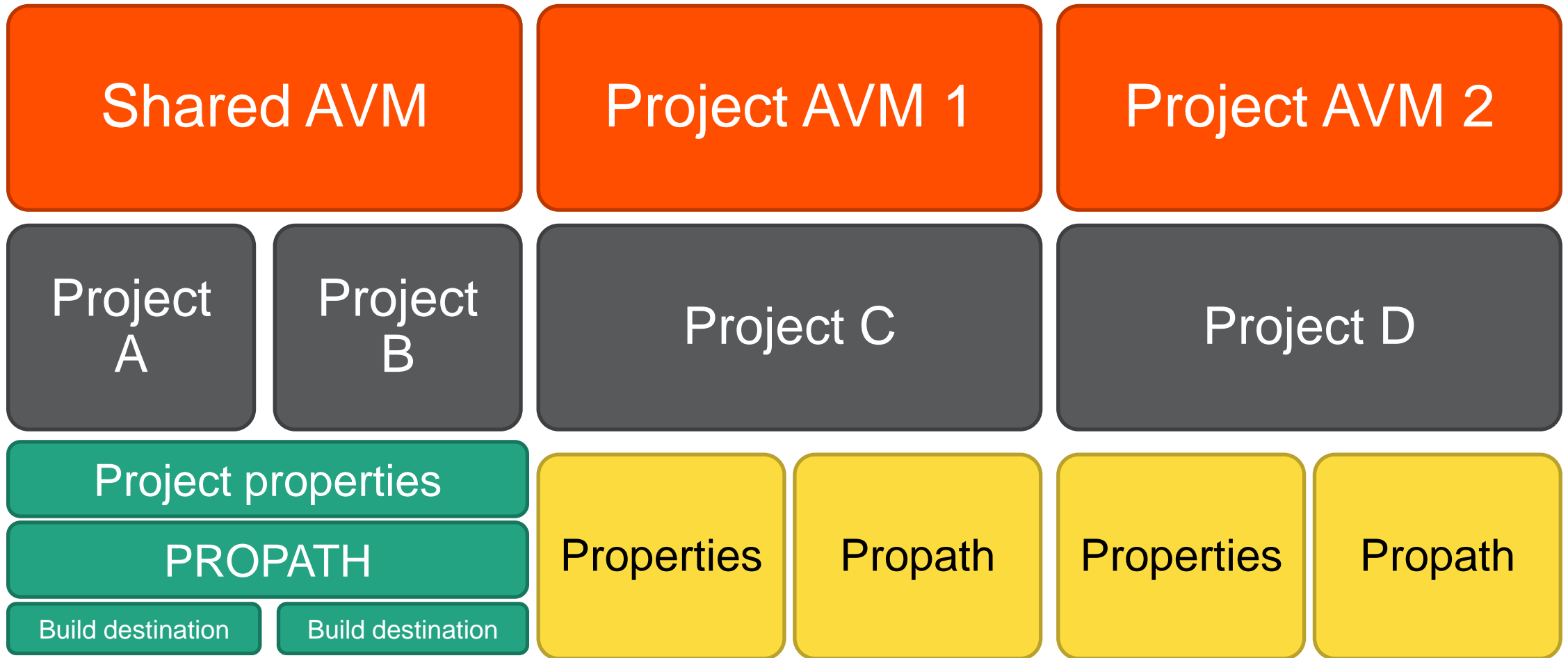
# Database Connection

- OE project needs a DB connection to handle DB related operations
- Connections are maintained at Workspace level in Preferences page
- Project can be associated with one or more database connection profile
- .dbconnection holds information related to OpenEdge DB
- Each AVM has its own connection to database



# Configuring Your Projects and Workspace

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# Summary

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- Preferences are common for a workspace
- Export of Preferences is allowed
- Perspectives is a collection of views and can be customized
- Custom Projects can be created for uniform developer experience
- PROPATH's are available at project level
- OpenEdge Database connections allow User to access OE Database
  - Database connections can be exported as an xml file.

# Workshop – Progress Developer Studio for OpenEdge – Lab1

20 mins





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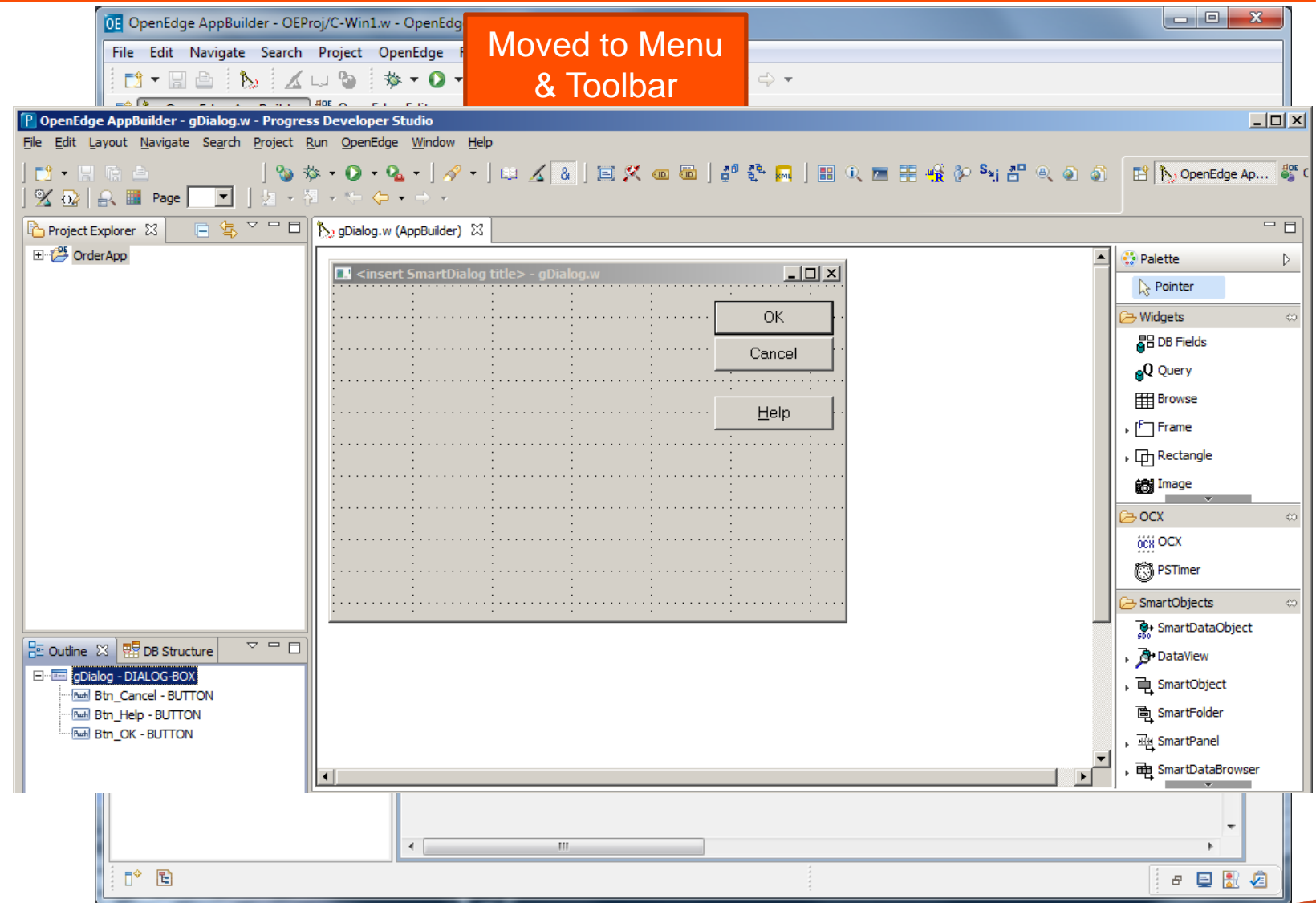
# Development Environments in PDSOE

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AppBuilder	Seamless Integration to PDS OE
GUI for .NET	Visual Designer, rich set of controls support
Web	WebSpeed and SpeedScript Editor
REST and Mobile	Build Apps faster and get to market quickly
OE BPM and OE Corticon	Business Process and Business Rules

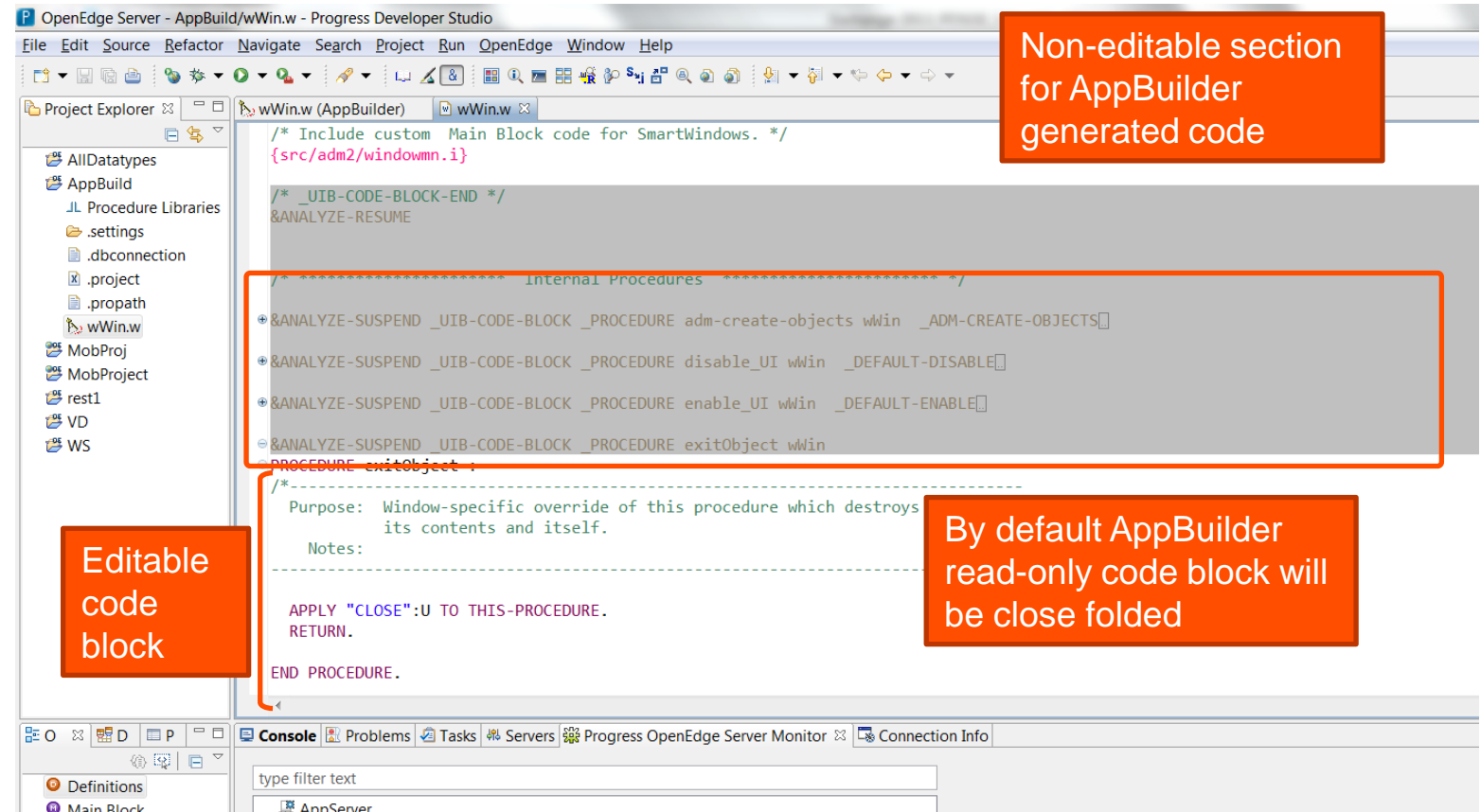
# Appbuilder Integration

- Brings native AppBuilder functionality to PDS OE
- Dock-able widget palette inherits look and feel of GUI for .NET Designer
- Hierarchical widget outline view
- Synchronization between design and source editor



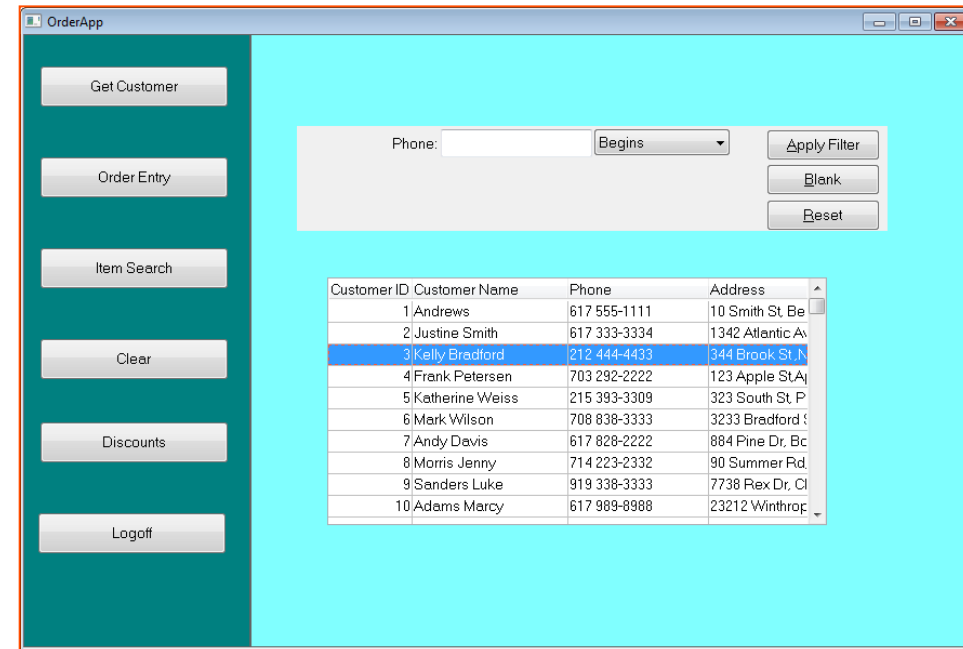
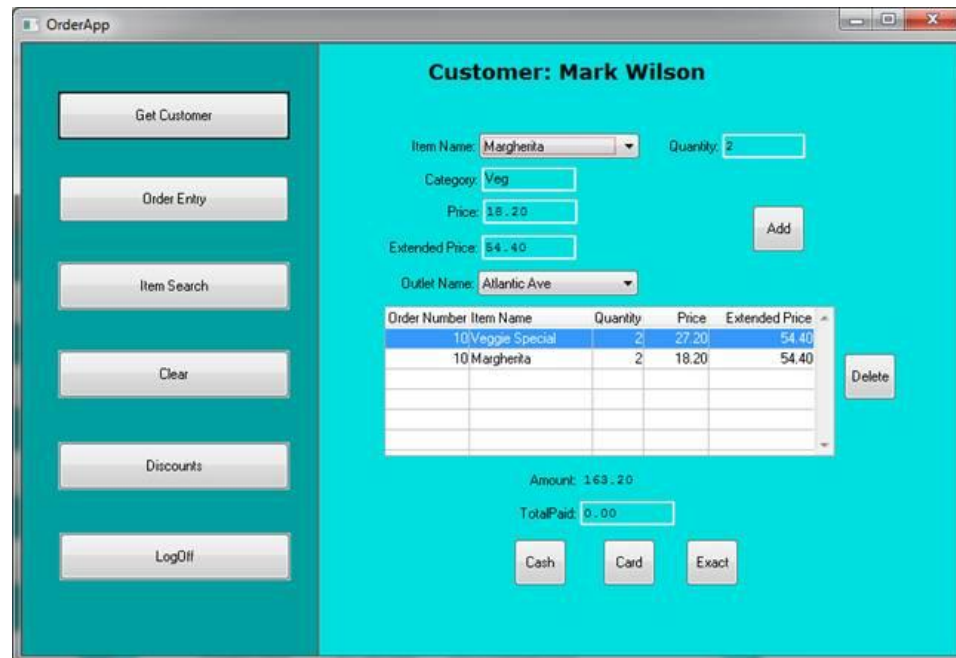
# Improved ABL Source Editor: Read-Only Code Sections

- Ease of editing AppBuilder generated source file
- Protects AppBuilder generated code
- Customizable highlighting
- AppBuilder Editor preference options are provided to turn on/off this feature
- Code folding for AppBuilder specific blocks
- Customized Find and Replace dialog



# What will we be Developing in this Lab

- An entire Order Entry Application using AppBuilder
  - Fetch Customer details
  - Search by Item
  - Place an Order



# Workshop – Progress Developer Studio for OpenEdge – Lab2

30 mins



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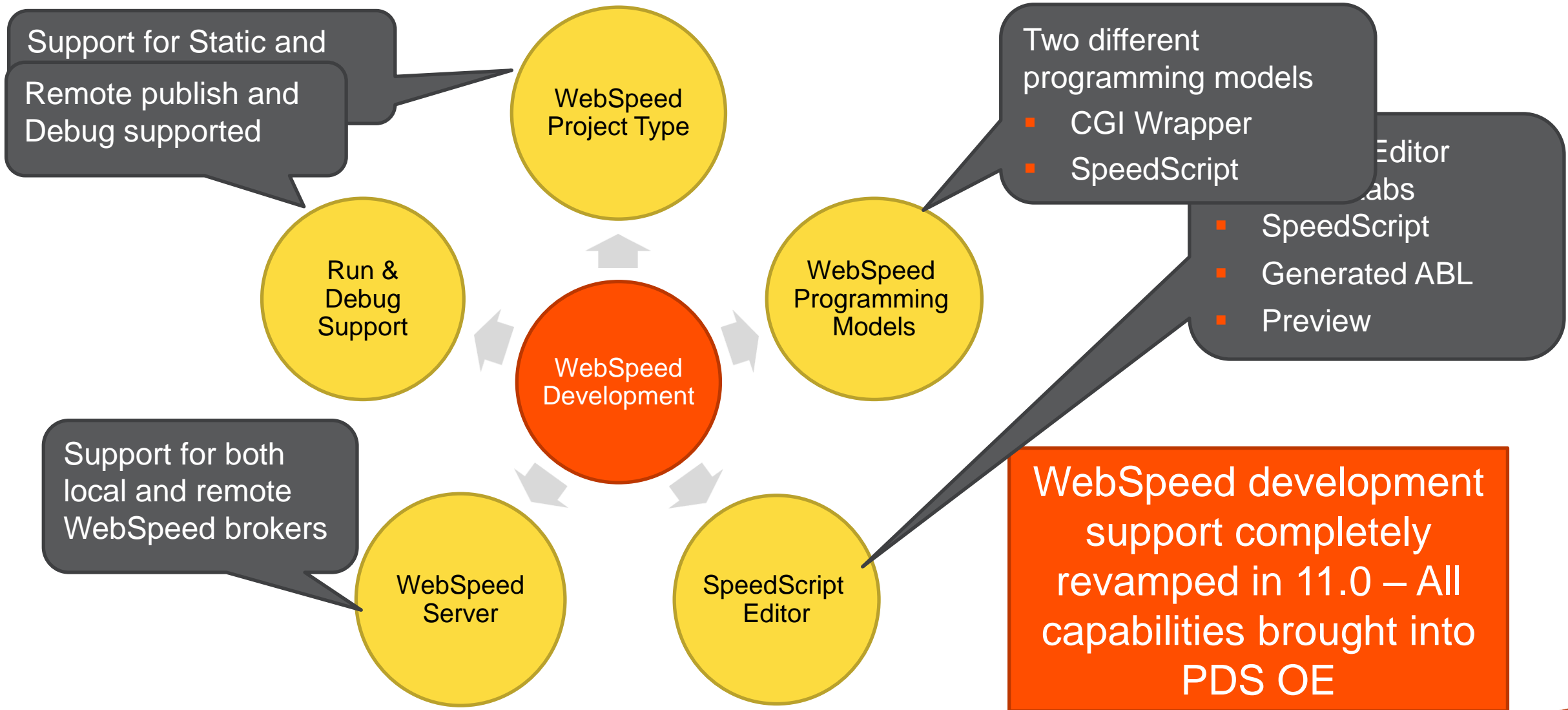
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Rest

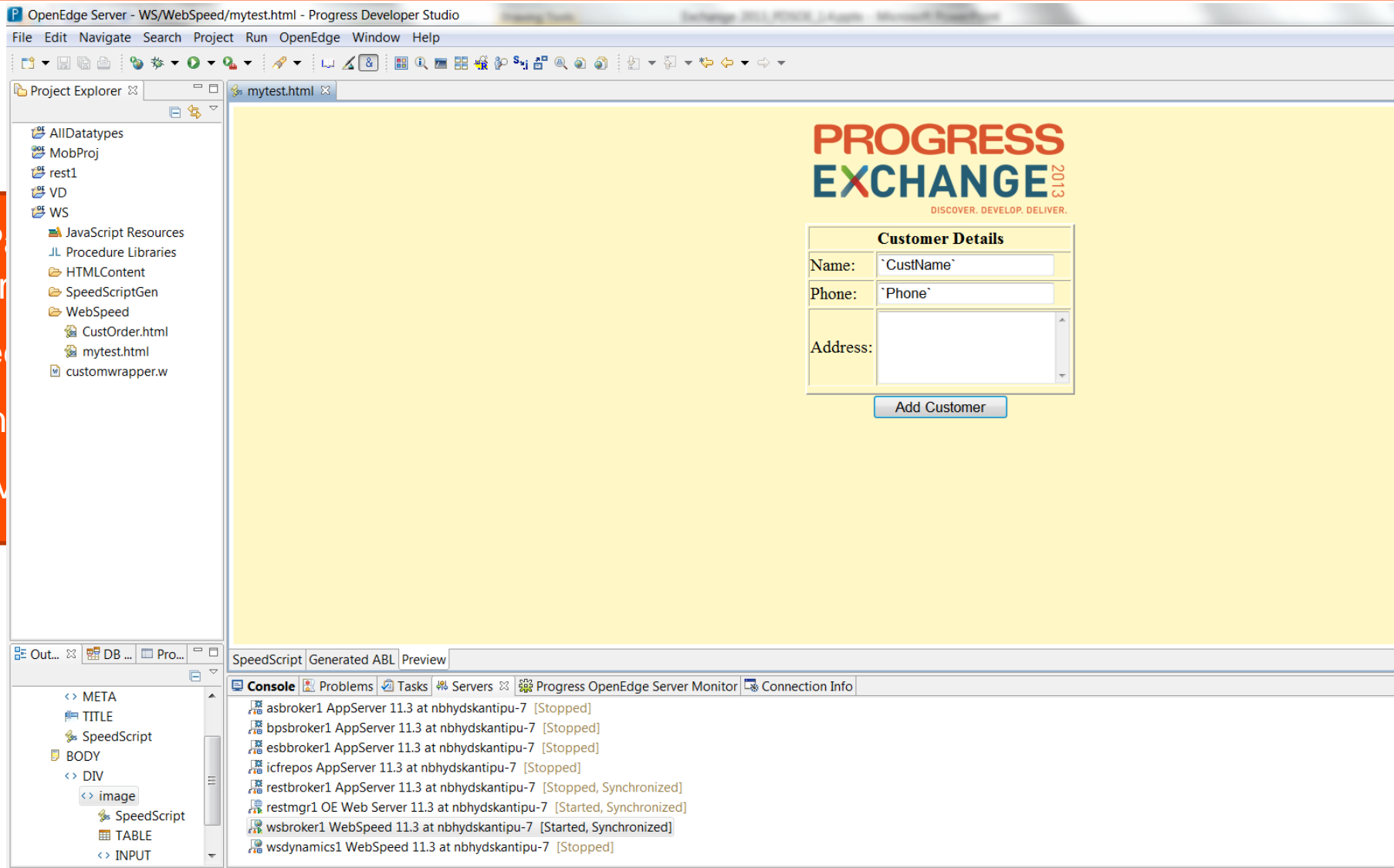
WebSpeed and SpeedScript Editor

# WebSpeed Development



# SpeedScript Editor

- Multi Platform
- with three
- SpeedScript
- Generated
- Preview

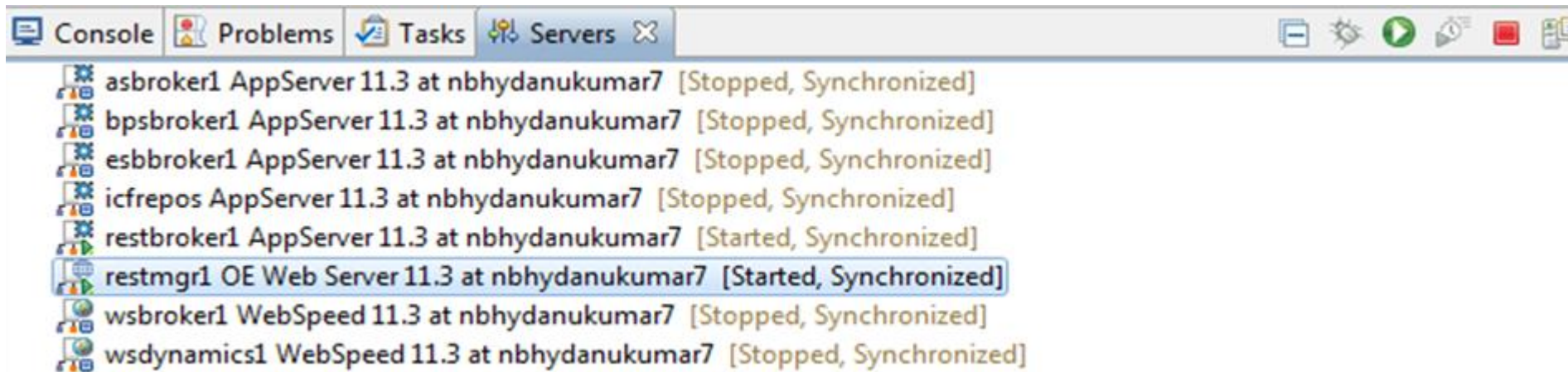


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# Servers in PDSOE

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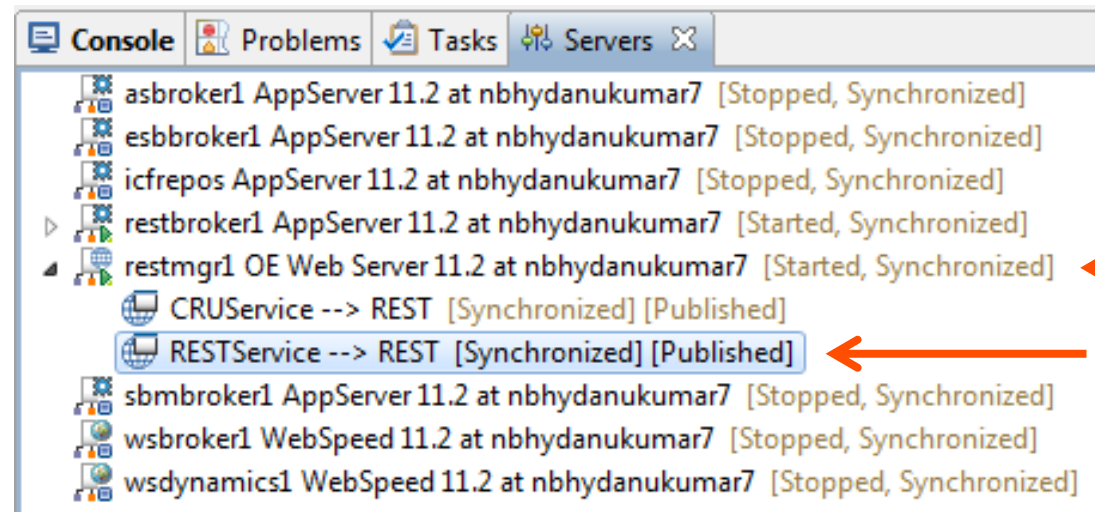
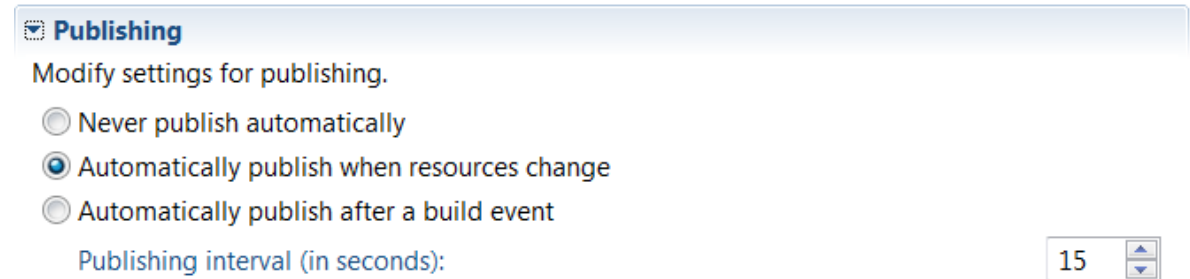
- Three types of Servers
  - AppServer, Web Server, WebSpeed
- Servers can be stopped and started from Servers view in PDSOE



- Server Editor to modify Server properties
  - Connection information, timeouts, publish location

# Publish

- Configure resources to be published
- Associate module/project to the Server
- Configure Publish settings
- Publish options
  - Publish
  - Clean



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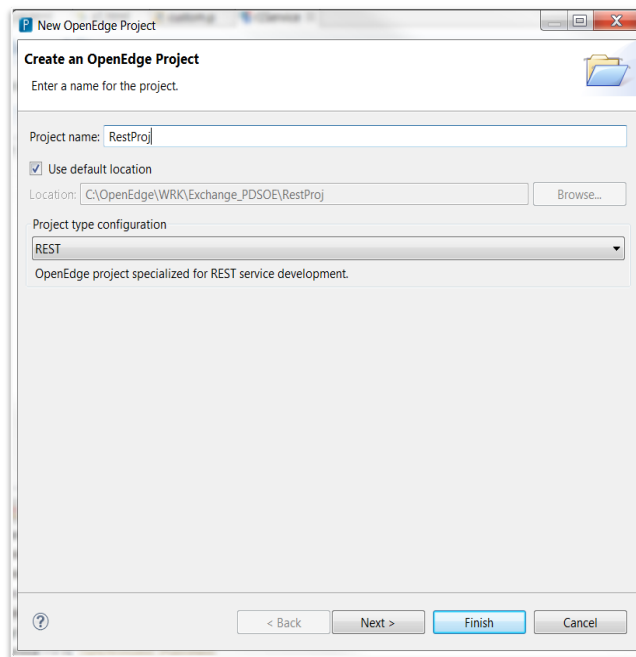
Rest

Build distributed applications faster

# REST Application Flow

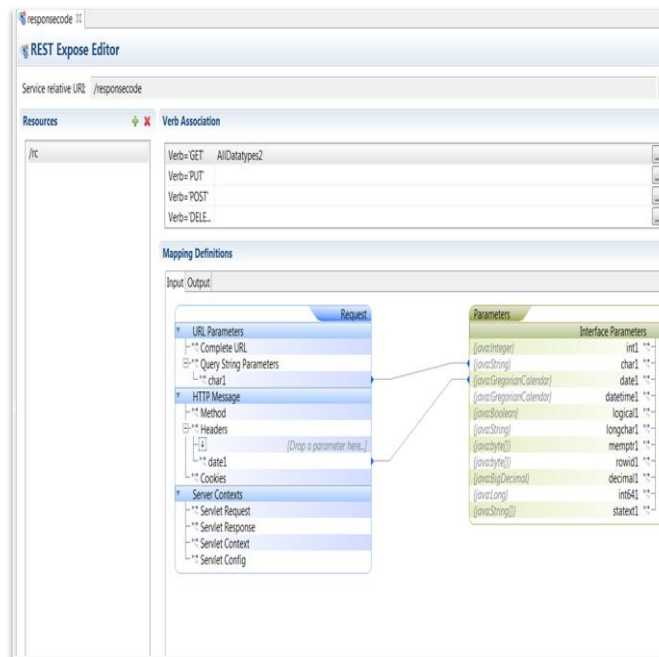
Step 1

Create REST Project



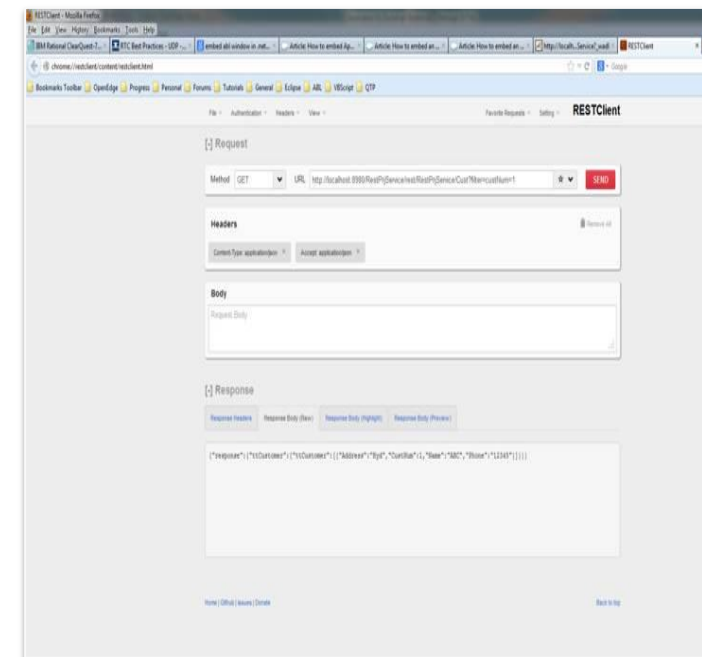
Step 2

Map Resources



Step 3

Test





# What will We be Developing in this Lab

- A Web report to fetch Customer details
- A Web page to add new Customer details
- Create a REST service and invoke using a generic REST client

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**Customer Details**

Name:

Phone:

Address:

Jump to:

**Results List:**

1	Andrews	617 555-1111	10 Smith St, Bedford
2	Justine Smith	617 333-3334	1342 Atlantic Ave, Apt 345b, Boston, MA
3	Kelly Bradford	212 444-4433	344 Brook St ,New York
4	Frank Petersen	703 292-2222	123 Apple St,Apt 34A, VA
5	Katherine Weiss	215 393-3309	323 South St, Philadelphia

# Workshop – Progress Developer Studio for OpenEdge – Lab 3, 4

40 mins



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GUI for .NET

Visual Designer, rich set of controls support

# OpenEdge GUI for .NET

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- A Microsoft® .NET based Windows graphical user interface
  - Competitive UI in ABL
  - .NET object features (methods, properties, events)
- Leverages what you know
  - ABL (events, business logic, data constructs)
- Wealth of .NET controls available
  - OpenEdge Ultra Controls for .NET (Infragistics™ NetAdvantage)
  - Microsoft® controls
  - Third party controls
    - Component One, DevExpress, Telerik, ...

# Visual Designer Perspective

The screenshot displays the Visual Designer Perspective in Progress Developer Studio. The central area shows a form named 'form1' with a 'Get Customer' button, a 'Customer Search' section, and a table with columns 'Item ID', 'Item Description', 'Quantity', and 'Total'. The table contains three rows of data. Below the table is a 'Bar code or quantity' input field and a total amount of '\$ 1,006.54'. The interface includes a 'Project Explorer' on the left, a 'Toolbox' on the right with 'Microsoft Controls', 'OpenEdge Controls', and 'OpenEdge Ultra Controls', and a 'Properties' window on the far right. Several orange callout boxes highlight key features: 'Project Explorer View' points to the left sidebar; 'Control Groups' lists Microsoft, OpenEdge, and Ultra Controls; 'Custom Controls' lists User and Inherited Controls; 'Document Outline View' points to the bottom-left pane; and 'Properties Events' points to the rightmost pane.

**Project Explorer View**

**Control Groups:**

- Microsoft
- OpenEdge
- Ultra Controls

**Custom Controls:**

- User Controls
- Inherited Controls

**Document Outline View**

**Properties Events**

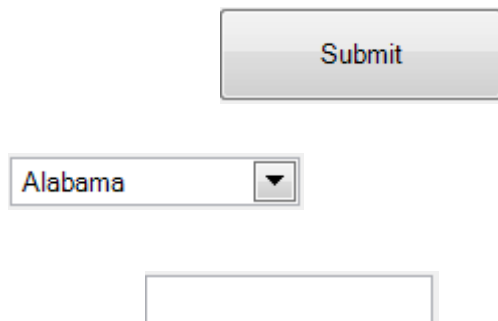
**Different Visual containers:**

- ABL Form
- ABL Dialog
- ABL MDI Form

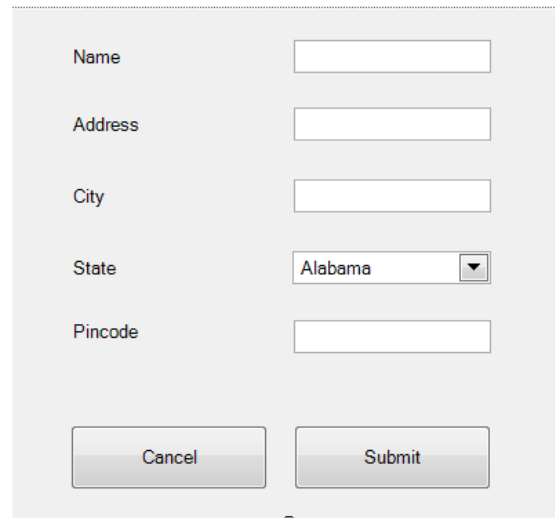
# Custom Controls

- Two different types
  - User controls
    - A collection of controls
  - Inherited controls
    - Control derived from another control

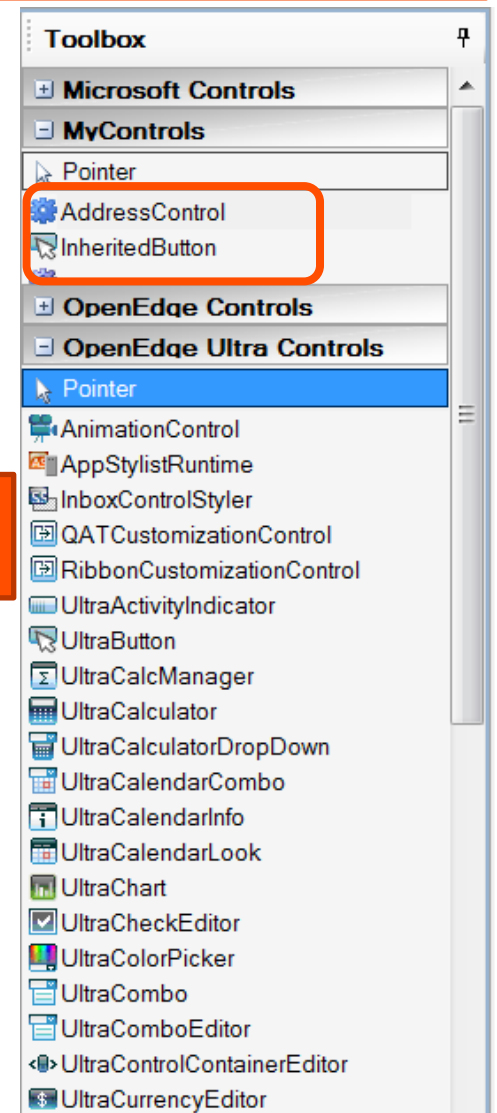
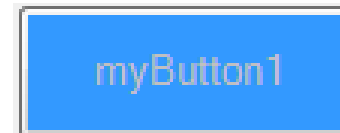
## Individual Controls



## User Address Control



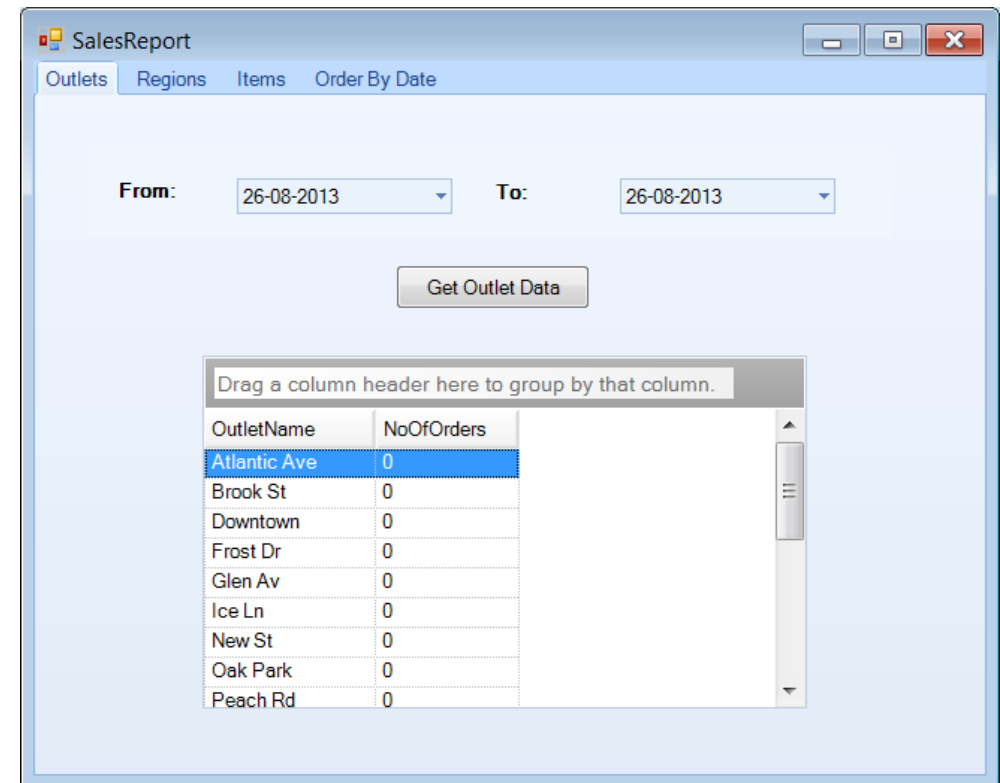
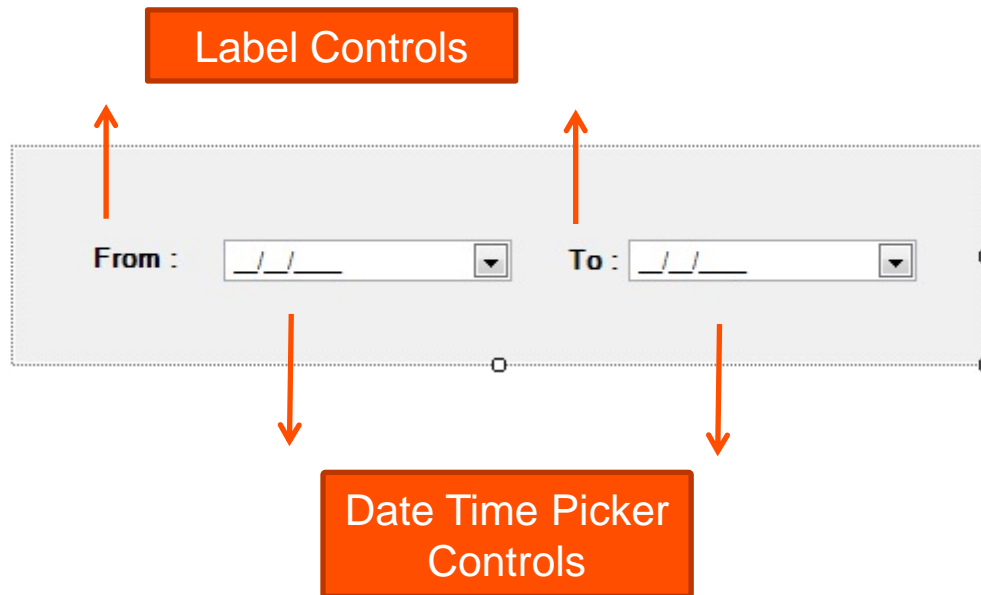
## Inherited Button Control





# What will we be Developing in this Lab

- Sales report application to view Sales report in a given period
- Creating User control and Inherited controls
- Creating Charts to view data



# Workshop – Progress Developer Studio for OpenEdge – Lab 5

20 mins





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