



Progress Modernization Framework for OpenEdge

March 2018

Progress Services
5000 Peachtree Industrial Blvd
Suite 100
Norcross, GA 30071

Table of Contents

Chapter 1 – Introduction & Setup	1-1
What is PMFO?.....	1-1
Software Prerequisites.....	1-1
Environment Setup.....	1-1
Prerequisite Knowledge.....	1-1
What is PAS?.....	1-1
Chapter 2 – The PMFO Wizard	2-1
Purpose.....	2-1
Glossary of Terms.....	2-1
Creating a New Project.....	2-1
The ABL Web App Project.....	2-1
Project Tailoring.....	2-1
Creating a PASOE Instance	2-1
Security Configuration.....	2-1
Incorporating the Wizard.....	2-1
Template Availability	2-1
Generating Business Entities.....	2-1
Generating SPA Screens.....	2-1
Running Your Application.....	2-1
Troubleshooting.....	2-1
Exercise: Create Additional Entities.....	2-1
Chapter 3 – Modifying the UI	3-1
Purpose.....	3-1
Arriving at Modern Web Development	3-1
The Rise of Single-Page Applications	3-1
Introducing an MVC Pattern.....	3-1
Modifying Generated Output.....	3-1
Modifying Existing Templates.....	3-1
Creating Custom Screens.....	3-1
Generating the Blank Screen.....	3-1
Examining the Output.....	3-1
Understanding the ViewModel.....	3-1
Making the Changes	3-1
JavaScript Changes	3-1

HTML Changes	3-1
Creating a New Template	3-1
Spark Tokens	3-1
Adding Custom Templates	3-1

Chapter 4 – The PMFO Framework 4-1

Purpose	4-1
Including the PMFO Framework	4-1
Introducing the Managers	4-1
Security Best Practices	4-1
Client-Principal Tokens	4-1
Applying the Configuration	4-1
Current OO Patterns	4-1
Understanding the CCS Classes	4-1
Example: Using the ClientContext Class	4-1
Example: Using Other Manager Classes	4-1
Introducing the Entity Classes	4-1
Overriding Core Classes	4-1
Upgrading to OERealm Security	4-1
Understanding Intercept Rules	4-1
Further Realm Configuration	4-1
Advanced Topics	4-1
Creating API Resources	4-1
Overriding PMFO Managers	4-1
Customized WebHandlers	4-1
Capstone Exercise	4-1

Appendix A – Common Operations A-1

Purpose	A-1
Obtaining Source Code	A-1
Creating a Database	A-1
Preparing the PDSOE Workspace	A-1
Preparing a PASOE Instance	A-1
Project Setup	A-1
Importing the DynSports Project	A-1
Publishing to PASOE	A-1
Troubleshooting Checklist	A-1
Advanced Topics	A-1
Security Configuration	A-1
Domain Configuration	A-1
Launching the Wizard	A-1

Appendix B – Customizing WebHandlers B-1

Purpose	B-1
---------------	-----

Obtaining Source Code.....	B-1
Creating a WebHandler	B-1
WebHandler Basics	B-1
Integrating PMFO	B-1
Customizing the DataObjectHandler.....	B-1
Event Handler Class	B-1

Appendix C – Catalogs and Metadata **C-1**

Purpose.....	C-1
RESTful Interfaces.....	C-1
Progress Data Object Service.....	C-1
REST vs. WEB Transports.....	C-1
Generating Metadata	C-1
The Data Object Service Catalog.....	C-1
Extending the Catalog	C-1

This page intentionally left blank.