

This document is to describe the source code for the book “Practical Enterprise Software Development Techniques”, ISBN 978-1-4842-0621-8. For space and readability, the code in the book is often reformatted, shortened, or has much of the extra code (error checking, logging, etc.) removed. The accompanying code has all of this left in place. Additionally, some code is referred to only as a snippet, a larger context is available with the complete project and all files available.

The code is mostly in .NET and Java.

For the .NET code, Visual Studio Express 2010 and above should be used and should be compatible with the solutions/projects. The code was last tested and ran with Visual Studio 2013; a version can be downloaded from <http://www.visualstudio.com/en-us/products/visual-studio-express-vs.aspx>.

For Java code, all projects were done in Eclipse or a tool based on Eclipse such as Spring Tool Suite. These are available at eclipse.org and spring.io. The latest version used for Eclipse was Luna (v4.4). For Spring Tool Suite the latest version used was v3.6.2 which is also based on Eclipse Luna (v4.4).

There are also several stand-alone files that are script-based, XML, or text based. These files may be part of a much larger project and the full project is not included. The makefile for C++ was tested and ran with MinGW (Minimalist GNU for Windows) with GNU Make 3.82 and gcc 4.8.1. Please see the documentation install documentation (<http://mingw.org/>) and also remember that to work from the DOS command prompt, put the location of both MinGW/Bin and Msys/Bin in the PATH environment variable.

SQL files are simple text files and can be viewed in any text editor. The scripts and code in the book were executed using MySQL WorkBench 6.0 and MySQL Community Server version 5.6.16.

The folders/files and a description for each are:

FOLDER PATH	DESCRIPTION
BUILD TOOLS	Contains CI server emulation scripts, nant and ant xml files, and a make file folder with the makefile and C++ files.
CONSOLEBRANCH	The ConsoleBranch C# application. Used to demonstrate .NET application configuration workings.
ECLIPSE	Workspace folder for eclipse Java projects. Contains 3 projects: <ul style="list-style-type: none">• GrocOrder – this is used in the unit test chapter to demonstrate JUnit tests, as well as in the Dependency Injection area to demonstrate an application WITHOUT dependency injection.• GrocOrder_ManualDI – this is used to demonstrate the use of interfaces and manual dependency injection (without a framework).• PropertyFile – this project demonstrates the reading of property files in Java.
GROCORDER	This is the .NET C# application of the GrocOrder application – only used for Unit Testing example.

LOGTESTAPPLICATION	.NET application to demonstrate logging using log4net. Also demonstrates using SQL statements via the MySQL database driver and ADO.NET data access classes. Demonstrates manual domain object mapping and the use of a LINQ query for list filtering.
REFACTORING2PATTERNS	.NET solution file - Basic report application with no patterns.
REFACTORNG2PATTERNS_FACTORY	.NET solution file – report application making use of the strategy pattern and a report factory for extensible reporting.
SQL SCRIPTS	All scripts relating to the database. Creation of the database, data loading, and data queries. Also, Install Instructions for setting up the database on a local instance.
STS	<p>Spring Tool Suite folder (Spring Tool Suite is a custom Eclipse tool available from spring.io) containing 3 projects:</p> <ul style="list-style-type: none"> • grocOrder – The grocery store application, using Spring for dependency injection configured using an XML configuration file. • TestingAppMVN – Demonstrates several concepts: <ul style="list-style-type: none"> ○ POM file for including Junit and log4j files into the project using Maven. ○ Unit testing in Eclipse/Java ○ Logging using log4j • nokel-database-test – Maven project that uses the mysql jdbc classes to access the mysql database.
TIMEENTRY	Beginnings of a .NET WCF project, only used to show domain layer diagrams and class diagrams.