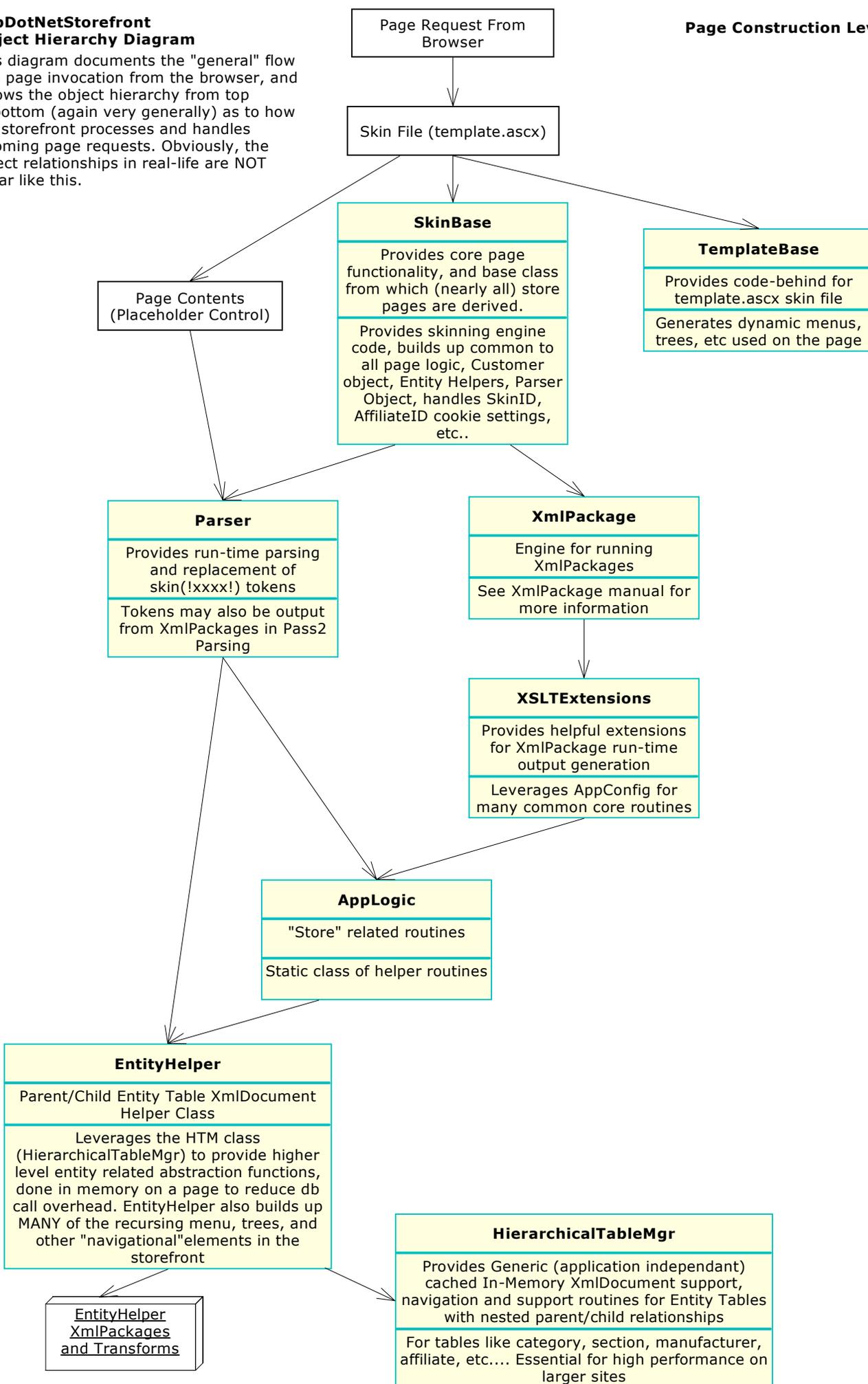**AspDotNetStorefront**
Object Hierarchy Diagram

This diagram documents the "general" flow
of a page invocation from the browser, and
follows the object hierarchy from top
to bottom (again very generally) as to how
the storefront processes and handles
incoming page requests. Obviously, the
object relationships in real-life are NOT
linear like this.

Page Construction Level Objects

Page Request From
Browser

Skin File (template.ascx)

SkinBase

Provides core page
functionality, and base class
from which (nearly all) store
pages are derived.

Provides skinning engine
code, builds up common to
all page logic, Customer
object, Entity Helpers, Parser
Object, handles SkinID,
AffiliateID cookie settings,
etc..

TemplateBase

Provides code-behind for
template.ascx skin file

Generates dynamic menus,
trees, etc used on the page

Page Contents
(Placeholder Control)

Parser

Provides run-time parsing
and replacement of
skin(!xxxx!) tokens

Tokens may also be output
from XmlPackages in Pass2
Parsing

XmlPackage

Engine for running
XmlPackages

See XmlPackage manual for
more information

XSLTExtensions

Provides helpful extensions
for XmlPackage run-time
output generation

Leverages AppConfig for
many common core routines

AppLogic

"Store" related routines

Static class of helper routines

EntityHelper

Parent/Child Entity Table XmlDocument
Helper Class

Leverages the HTM class
(HierarchicalTableMgr) to provide higher
level entity related abstraction functions,
done in memory on a page to reduce db
call overhead. EntityHelper also builds up
MANY of the recursing menu, trees, and
other "navigational"elements in the
storefront

HierarchicalTableMgr

Provides Generic (application independant)
cached In-Memory XmlDocument support,
navigation and support routines for Entity Tables
with nested parent/child relationships

For tables like category, section, manufacturer,
affiliate, etc.... Essential for high performance on
larger sites

EntityHelper
XmlPackages
and Transforms

Application Logic Layer Objects

Customer

Customer class, responsible for building up current page Customer Context, provided within SkinBase

Loosely tied to the Customer Table (and other tables of course, e.g. CustomerLevel, Affiliate, etc...)

ShoppingCart

Shopping Cart encapsulation class

Used by site pages, AppLogic, etc.

SE

"Search Engine" link generation class. Centralizes ALL page link generation used in the entire storefront.

Topic

Topic support class. Topics are arbitrary HTML blocks that you can render inside the skin. This is how arbitrary #'s of "html pages" are added to the site

Supports both DB and File based topics, and localization extraction, etc... Maps to Topic table

Order

Order class, encapsulating common order related functions

Maps to the orders_* tables

Address

Customer Address management helper class

Maps loosely to the Customer and Address tables

CustomCart

Kit Product Helper Class

Maps loosely to CustomCart table

CustomerSession

Server Farm Safe Session Manager

Maps loosely to Customer and CustomerSession tables

Import

Bulk Product Import Support Class

Used by XmlImporter and Excel Importer (which we convert to Xml internally anyway)

Poll

Store "poll" helper class

Maps loosely to the Poll table

ProductCollection

Helper class based on aspdnsf_GetProducts proc, to provide convenient .net interface. This class honors ALL filtering (affiliates, customer levels, locales, manufacturer ids, published/non-published, search specs, etc. it is THE main way all .net pages in the storefront get lists of products back

related to aspdnsf_GetProducts stored proc

Ratings

Product Ratings & Reviews Helper Class

Maps loosely to the Rating and RatingCommentHelpfulness tables

RTShipping

"Store" related routines

Static class of helper routines

Shipping

"Store" related routines

Static class of helper routines

SMS

SMS Message Helper Class for Cell Phone Notifications

SiteMap

"Simple" version of site map page, for search engines

ComponentArt site map control also supported, but not by this class

Support Functionality Layer Objects

CommonLogic

Helper class of completely generic (to any web site) routines

Used to be called Common class in versions prior to v6.1

DB

Database helper routines and encapsulation class

This is NOT an OR mapper class, just a helper class to localize all db call operations

Localization

Handles all language dependent formatting, parsing, and display routines

Should be used on retrieval & display of ALL store data, for date time fields, currency fields, decimal fields, etc.

Encrypt

Contains the store encryption engine

Uses EncryptKey in web.config and /admin/web.config files (they must be exactly the same)

Currency

Multi Currency display & feed handling class. ALL currency display output is now sent through this class, starting in v6.1

Added in v6.1. Loosely tied to the Currency table

Excel

Excel to DataSet load & parse helper class

Remember, Excel field column widths are limited to 255 characters

FTPClient

FTP file helper class

Added in v6.1

XmlCommon

Helper class of XmlDocument useful routines