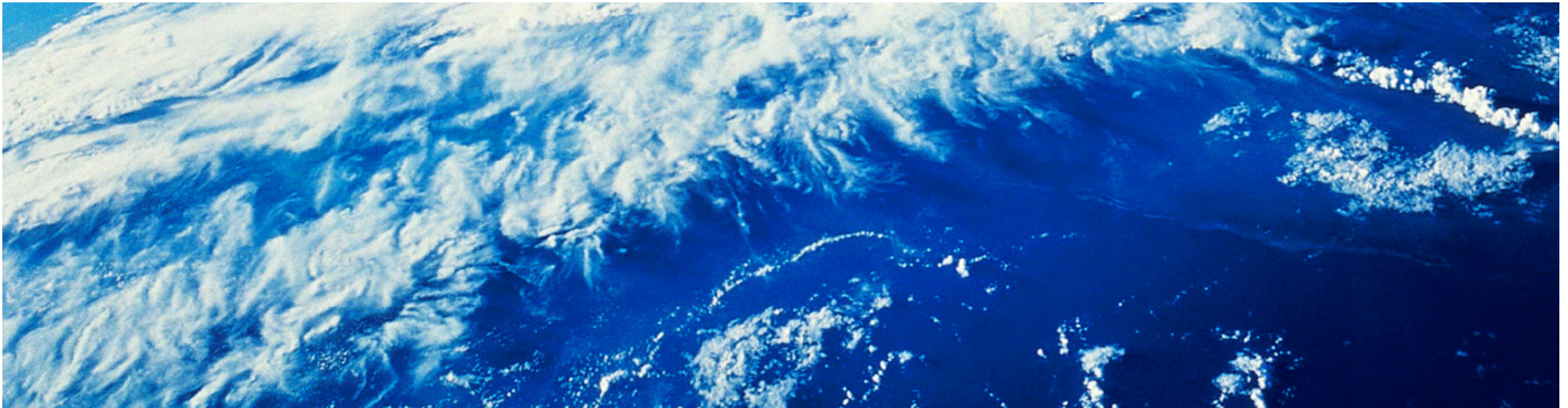IBM

# IBM WebSphere Commerce V7 FEP7

## Starter Store Companion Assets

# Agenda

- Purpose

- Design Assets Overview
  - Use Cases
  - Wireframes
  - CSS Style Guide
  - Static HTML
  - What's new in FEP7

- Test Assets Overview
  - Test Plans/Cases
  - Test Automation Introduction
  - Features
  - What's new in FEP7

# Purpose

- Reduce Total Cost of Implementation of using Starter Stores

- Make it easier and cheaper for implementers (Customers, Business Partners, Services) to deploy, customize and test

- Targets the design and test activities

# Design Assets Overview – Use cases

**Usage:**
– Document out of the box store front compatibilities.
– Easy to add new use, update existing or remove unused use cases.

**Structure**
– Custom template highlights the following key information
  Store function, sar file, related use cases
– Available for all Starter Stores:
  Aurora & Aurora Mobile
  Elite Base
  China
  Brazil
– Grouped together by functionality such as My Account, Catalog Browsing, Placing an Order.
– Flow Diagrams are also included

## 10.2 Use Case: Shopper registers for an account with the store (101)

### 10.2.1 Use Case Summary

Table – Use case summary

| Use Case # - Name: | 101 - Shopper registers for an account with the store |
|---|---|
| Overview: | A shopper accesses the store and registers for an account by filling out and submitting an account profile. |
| Channel / Tool | Online Storefront |
| Actor(s)/System(s): | Shopper, WebSphere Commerce |
| WC Subsystem(s): | Member Subsystem |
| Trigger Event: | A shopper wants to register with the store. |
| Preconditions: | 1. Shopper is at the Sign in page.<br>2. Shopper is not currently logged into the store.<br>3. Shopper is not currently registered with the store. |
| Post Conditions: | 1. Shopper is registered with the store. |
| SAR/Store Functions: | Aurora/The Registration page has six available Store Functions to select the fields that are displayed:<br>• Promotional email opt-in during registration (Enabled out of the box)<br>• Preferred language selection can be enabled or disabled (Enabled out of the box)<br>• Preferred currency selection can be enabled or disabled (Enabled out of the box)<br>• Gender information can be enabled or disabled (Enabled out of the box)<br>• Age information can be enabled or disabled (Enabled out of the box)<br>• Mobile phone number and SMS notifications opt-in can be enabled or disabled (Enabled out of the box) |
| Frequency: | |
| Notes: | By registering, the shopper gains access to additional store features which include quick checkout functionality, wish lists, advanced notice about promotions, the ability to check on order status, and a personal address book. |
| Related Use Cases: | |
| Test Cases (optional): | |
| Customization Status: | |
| Additional information: | http://publib.boulder.ibm.com/infocenter/wchelp/v7r0m0/topic/com.ibm.commerce.aurora-starterstore.doc/refs/rsmaurorasa_acctregister.htm |

## 10.2.2     Event Flows

## Main Flow of Events

| # | Actor | Action | Response | Data Elements | Notes / Business Rules | Ref Use Cases |
|---|-------|--------|----------|---------------|------------------------|---------------|
| 1 | Shopper | Shopper clicks or taps Register button. | Registration page opens. | | | |
| 2 | Shopper | Shopper enters valid information into all required fields (denoted by an asterisk) and clicks or taps Submit. | 1. My Account page opens. 2. Shopper is registered with the store. | Registration Information: *Required* • Logon ID • Password • Verify password • Last name • Street address • City • Country/ Region • State/ Province • ZIP code/ Postal code • E-mail *Optional* • First name • Phone number | | |

# Design Assets Overview – Wireframes

**Usage:**

– Visual guide that represents how elements are arranged on a store page
– Used by user experience professionals to arrange elements or add new elements to best match customer business objectives and customizations of the store

**Structure:**

– Aurora-wireframes.rp:  The wireframe Axure source file.
  Edit directly and generate a new set of HTML and Word files.
  Demonstrate to stakeholders and clients for review/approval
– Aurora-wireframes-HTML-Pages.zip
  HTML files that you can view and demonstrate to clients in a browser.
  Includes some interactive functions.

# store name

Apparel | Electronics | Grocery | Health | Home & Furnishing | Newsletters & Magazines | All Departments

Search | All Departments

**SAVE 20%** on all New Arrivals
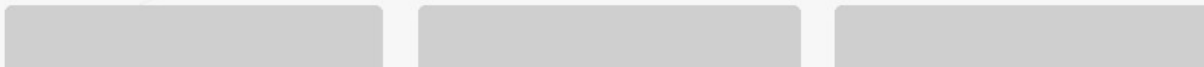
**RECEIVE 15% OFF** Your Entire Purchase

# COLORS OF
# SUMMER

Vivid hues, relaxed shapes, and fluid fabrics dominate our summer dress collection. Effortless style at unbelievable prices.

shop now

[No Title]

Background image - center top, 1/3

New Summer Arrivals In...

# Design Assets Overview – CSS Style Guide

**Usage:**
- Defines the formatting and style rules for HTML and CSS.
- Designed to help developers and web designers speed up the customization and CSS styling of the Aurora store

**Structure**
- Applies to the starter store and the static HTML starter store HTML and CSS files.
- Covers every key component, a breakdown of its structure, class names, and image paths that are used throughout the site.
- CSS classes are listed to allow for a quick search in the main CSS file to locate the necessary code to change.
- Screen capture examples are also included illustrating where some of these elements are used across pages and widgets in the Aurora starter store.

**STARTER STORE OVERVIEW**

## Basic Color Scheme

```
RELATIVE CSS PATH:
/wcsstore/Aurora/css/
    base.css
/wcsstore/Aurora/css/
    styles.css
```

```
/* excerpt from base.css shown
below */

/* ... */


/*** Reset + basic styles ***/

body {
    margin: 0;
    padding: 0;
    color: #4d4d4d;
    font-family: sans-serif;
    line-height: 1.4;
}
a {
```

| DARK GREY1 | DARK GREY2 | MID-GREY1 | MID-GREY2 | ORANGE1 |
|---|---|---|---|---|
| #454545 | #4D4D4D | #686868 | #767676 | #CA4200 |
| *Use examples:* Navigation buttons, derivative text styles against mid-range color backgrounds. | *Use examples:* Body copy, derivative text styles for paragraph text <18 pt, Department / Category Page titles. | *Use examples:* Inactive tab titles, and derivative text styles when used against light grey solid / gradient backgrounds. | *Use examples:* Product Details Page title, other accessible text use cases where a lighter grey is desired. | *Use examples:* Highlight text / UI elements application against white background. |

| ORANGE2 | BLUE1 |
|---|---|
| #B54200 | #006ECC |
| *Use examples:* Highlight text / UI elements application against lightly tinted off-white backgrounds. | *Use examples:* Store selection link, physical store links, change store link, recurring item link, read / write review stack. |

# Design Assets Overview – Static HTML

**Usage:**

- Allow users to click through a static version of the store front
- For media designers to mock up changes in HTML/CSS without dev environment
- For developers to understand what JSPs need to be changed

**Structure:**

- Index HTML file provides links to the different flows available
- Divided into different flows that represent the core functionality of the store.
  - EmailPackage,
  - GuestUserPackage,
  - InitialStatePackate,
  - LargeObjectsPackage,
  - RegisteredUserPackage
- CSS, image and JavaScript files determine the appearance and behavior of the storefront
- Dojo framework allows the static store pages to mimic their standard behavior
- The bin directory contains the tools required to generate your own set of static pages

# What's New in FEP7

- Merged Use cases document for Mobile and Web Stores

- Updated Wireframes for FEP7 store, including 3 view points for RWD pages

- Axure source file is included in this release

- Mobile and Full Store static html in one package

- Updated CSS Style Guide for RWD pages and FEP7 Aurora.

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- Test Assets Overview
  - Test Plans/Cases
  - Test Automation Introduction
  - Features
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# Test Assets Overview – Test Plans/Cases

**Usage**

- Provide low level execution details for out of box store front FVT test cases
- Allows for easy replacement of data and messages
- For testers to modify/extend for new features

**Structure**

- Excel document
- Data and Error messages on separate tab and referenced
- Clear use case to test scenario mapping
- New Widget tab for Widget specific test cases
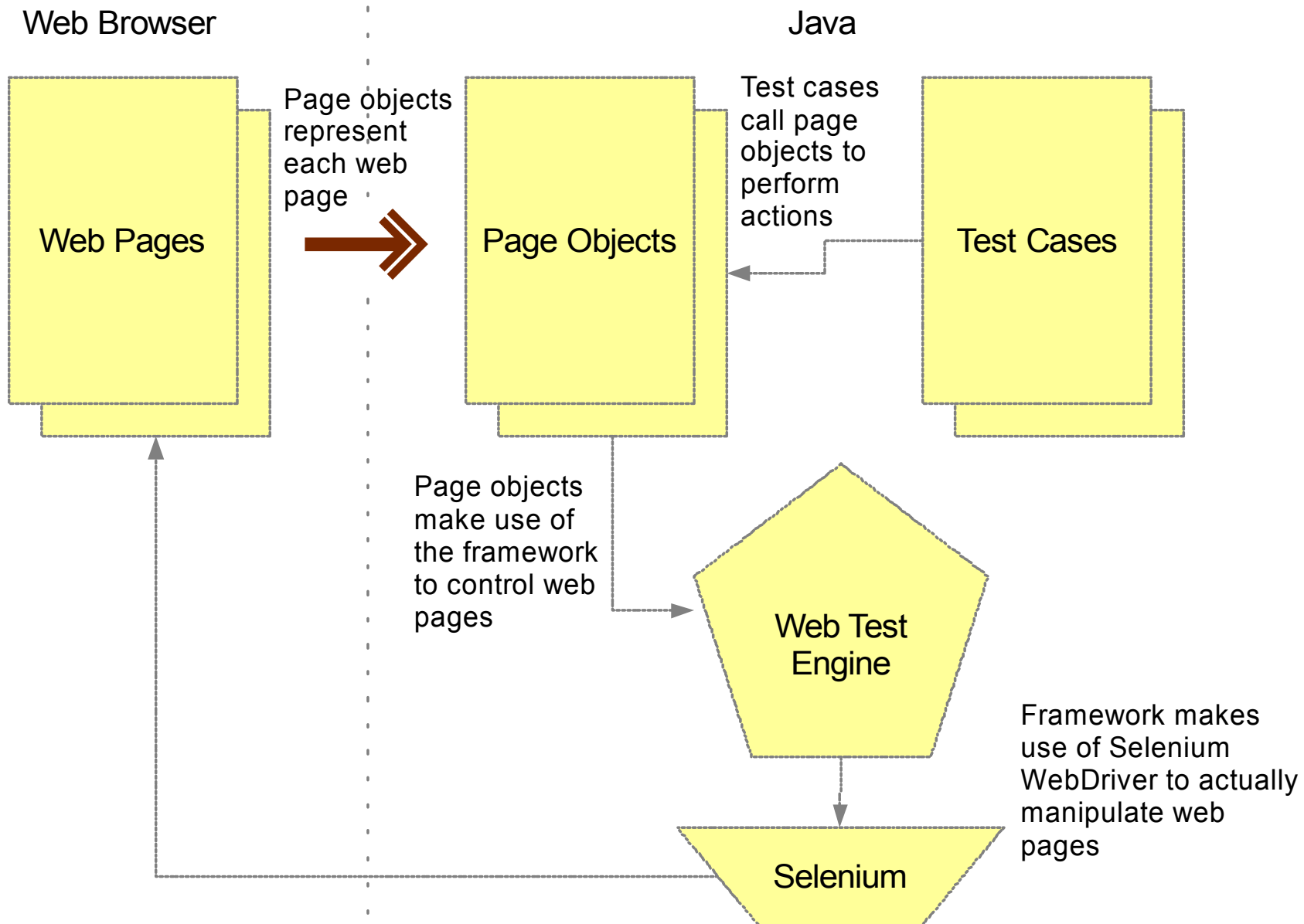
# Test Assets Overview – Test Automation

**Usage:**

- Provides facilities to write, maintain and execute test cases that cover WebSphere Commerce starter stores
- Used as a base to create test cases focused on your store customizations

**Structure:**

- JUnit test cases
  - A suite of automated test cases for the starter store
- Administrative tasks API
  - Used to interact with Accelerator and Management Center
- Web application testing framework
  - Called Web Test Engine (WTE)
  - Used to interact with the store from the UI (automated browser-based testing)

# Overview (cont'd)

Web Browser

Java

Web Pages

Page objects represent each web page

Page Objects

Test cases call page objects to perform actions

Test Cases

Page objects make use of the framework to control web pages

Web Test Engine

Framework makes use of Selenium WebDriver to actually manipulate web pages

Selenium

# Test Automation Features

- **Follows the Page Object Design Pattern**
  - Creates a true separation between the tests and the page model

- Benefits
  - Eliminates duplication
  - Changes to one side seldom requires changes to the other

- **Use of annotations to succinctly describe when a page has loaded**
  - Due to javascript and AJAX calls, there is no automated means to determine exactly when a page is finished loading (or if it appears at all)

- Benefits
  - Eliminates boilerplate code when checking if a page is loaded
  - Will automatically fail the test if it cannot find the element within a configurable timeout

# Test Automation Features (cont'd)

- **Use of annotations to succinctly describe when a page has loaded**
  - Due to javascript and AJAX calls, there is no automated means to determine exactly when a page is finished loading (or if it appears at all)

- Benefits
  - Eliminates boilerplate code when checking if a page is loaded
  - Will automatically fail the test if it cannot find the element within a configurable timeout

- **Based on open source technologies**
  - Selenium WebDriver
  - Apache Commons
  - Apache HTTP Client
  - JUnit

- Benefits
  - Large open source communities with forums
  - The store companion test automation is free, as are the libraries it depends upon

# Test Automation Features (cont'd)

- **Test cases and page object methods written in a fluent API**
  - Methods are called in a way that almost flows like an English sentence

- Benefits
  - Code is far more readable and easier to debug

**Test case to add product to cart through the sitemap**

```java
// Open the Aurora home page
getSession().startAtPage("http://host/webapp/wcs/stores/servlet/au
    rora", AuroraFrontPage.class)

// Go to department page
.getFooter().goToSiteMapPage().goToDepartmentByName("Dairy")

// Go to product display page and add this item to shop cart page.
.goToProductPageByName("Parmesan Cheese").addToCart();
```

# Test Automation Features (cont'd)

- **Page objects are extendable and WTE can handle practically any HTML-based web page**

- Benefits
  - Can use the store companion automated test cases as a base for your own store
  - Add your own test cases
  - Extend the page objects with other elements you have on your store pages

  - Unlike record/playback testing that has to be re-recorded when something changes, a single page object method can be modified without affecting any test cases

# What's new in FEP7 – Widgets

**Web Browser**

**Java**

Web Pages

Page objects represent each web page

Page Objects

Test cases call page objects to perform actions

Test Cases

Page objects make use of the framework to control web pages

Widgets

Widgets represent reusable components of page objects

Web Test Engine

Selenium
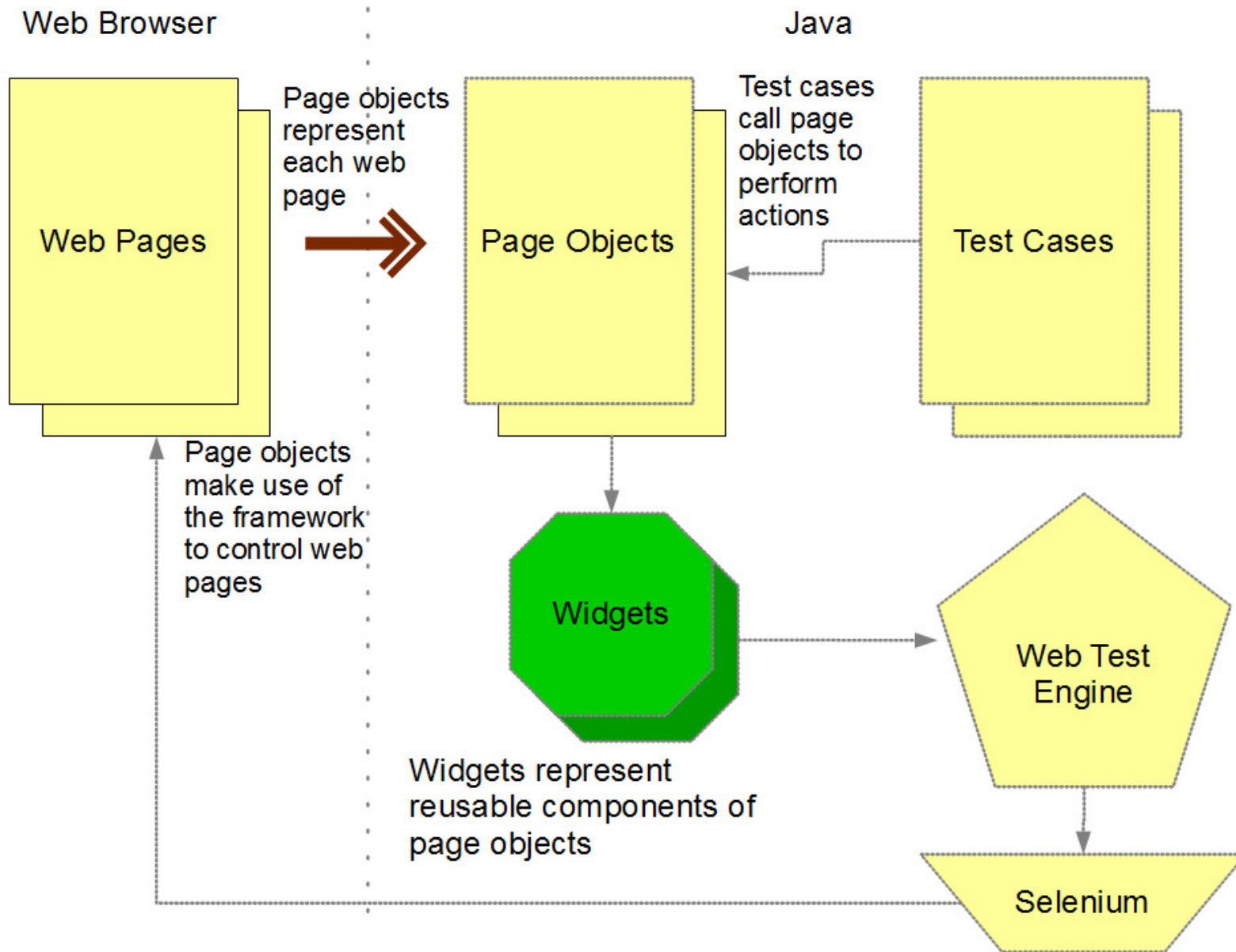
# What's new in FEP7 – Web Services

- Previously **set up, teardown, and verification** parts of test cases are done through the UI
  – Use of Web Services to automate set up, teardown, and verification
  – Aurora test bucket runs in 1/3 of the time (7+ hours -> 2.5) as compared to FEP6 Store Companion Assets


- Commerce Advanced Service Layer (Casl)
  – Framework that calls web services through java
  – Auto-generated from Commerce meta-data (noun.xml, tpl files)

# Thank you

Starter Store Companion Assets info:

http://pic.dhe.ibm.com/infocenter/wchelp/v7r0m0/topic/com.ibm.commerce.aurora-starterstore.doc/concepts/csmstarterstorecompanionassets.htm

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