

# User Guide

This **User Guide** serves as the encyclopedia for Tapestry concepts, capabilities and practices.

## Tapestry Core

Going beyond [Getting Started](#) and the [Tutorial](#), these topics dive deep into the core Tapestry capabilities.

- [Supported Environments and Versions](#)
- [Project Layout](#)
- [Configuration](#)
- [Class Reloading](#)
- [Component Reference](#)
- [Annotations](#)

## Pages and Components

- [Component Classes](#)
- [Component Templates](#)
- [Property Expressions](#)
- [Component Parameters](#)
- [Parameter Type Coercion](#)
- [Layout Component](#)
- [Component Mixins](#)
- [Page Navigation](#)
- [Localization](#)

## Request/Response Processing

- [Page Life Cycle](#)
- [Request Processing](#)
- [Component Rendering](#)
- [URL Rewriting](#)
- [Document Object Model \(DOM\)](#)
- [Response Compression](#)
- [Securing your application with HTTPS](#)
- [Content Type and Markup](#)

## Data persistence

- [Persistent Page Data](#)
- [Session Storage](#)

## Interacting with components

- [Injection](#)
- [Environmental Services](#)

## JavaScript, AJAX, CSS & Binary Data

- [Client-Side JavaScript](#)
- [JavaScript Modules](#)
- [CoffeeScript](#)
- [Ajax and Zones](#)
- [Cascading Style Sheets \(CSS\)](#)
- [Assets](#)
- [Legacy JavaScript](#) (prior to Tapestry 5.4)

## Working with forms

- [Logging & Debugging](#)
- [User Guide](#)
- [Uploading files](#)

## Debugging, Testing & Tooling

- [Logging & Debugging](#)
- [Unit testing pages or components](#)
- [Integration testing with Selenium](#)
- [Development Dashboard](#)

## Tapestry IOC

As with Tapestry 5 in general, the goal of Tapestry Inversion of Control (IoC) is greater simplicity and power--without XML. You'll want to explore Tapestry IoC to make full use of the extensibility of the framework.

### Architecture

- [Introduction](#)
- [Overview](#)
- [Modules](#)

### Features

- [Services](#)
- [Service Advisors & Advice](#)
- [Service Decorators & Decoration](#)
- [Operation Tracker](#)

### Configuration

- [Configuration](#)
- [Case Insensitivity](#)
- [Module Autoloading](#)
- [Service Implementation Reloading](#)
- [Ordering by Constraints](#)
- [Symbols](#)

### Service Builders

Tapestry provides a set of ready-to-use service builders for common design patterns:

- [Chain of Command](#) (the ChainBuilder service)
- [Pipeline](#) (the PipelineBuilder service)
- [Shadow Properties](#) (the PropertyShadowBuilder service)
- [Strategy](#) (the StrategyBuilder service)

### Usage

- [Injection in detail](#)
- [Object Providers](#)
- [Service Serialization](#)

### Built-in services

- [Type Coercer](#)

### Registry startup & shutdown

- [Starting and stopping the registry](#)
- [Listening for registry startup](#)

### Tooling

- [Parallel Execution](#)
- [Logging](#)

### Built-in modules

Tapestry comes with a collection of add-on modules to let you extend the framework beyond its core.

## Hibernate Integration

- [Hibernate Configuration](#)
- [Hibernate User Guide](#)
- [Hibernate Statistics](#)
- [Hibernate-Core](#)

## Spring Integration

- [Spring Core](#)

## JPA Integration

- [Integrating with JPA](#)

## Other Modules

- [JSR 303 Bean Validation](#)
- [Functional Flows](#)
- [JMX Integration](#)
- [JSON](#)
- [Component Report](#)

[More Modules...](#)

## Deprecated Topics

- [Aliases](#) (deprecated)