System Architect Essentials

Course Introduction - Before You Begin

# System Architect Essentials 7.2 Overview

In this course, you learn the core principles of application development on the Pega 7 Platform.

Business users and delivery team members use these principles to plan and deliver business applications faster and more accurately for maximum business value.

You learn how to perform the most common application development tasks to prepare yourself for your first Pega development project.

## Objectives

After completing this course, you should be able to:

* Apply Pega’s principles of application design and development to deliver business application that are **Build for Change™.**
* Use **Pega Express** to model the life cycle of a case that mirrors the way business people think about how work is completed.
* Directly capture business objectives to help ensure that business requirements are accurately capture, and that business and IT stakeholders share a common understanding.
* Use **Designer Studio** to refine and enhance the case life cycle design.
* Identify the tasks and responsibilities of the system architect on a Pega Implementation.
* Configure a case and case processing behavior.
* Create data classes and properties for use in a Pega application.
* Automate decision-making throughout and application to improve process efficiency.
* Design responsive user forms for use on any platform or browser.
* Design reports to deliver key insights to business users.
* Incorporate and manage reference data to allow applications to adapt to changing business conditions.
* Test your application design to analyze rule behavior and identify configuration errors.

## Intended audience

This course is for system architects who are responsible for developing business applications.

## Prerequisites

To succeed in this course, you should:

* Know the business processes and policies used at your company.
* Have a basic understanding of business application development.
* Be familiar with project methodologies such as Scrum, RUP, or Waterfall.
* Have some experience developing software applications.

## Related Content

[System Architect Essentials Student Guide](http://pegasystems2.http.internapcdn.net/pegasystems2/student_guides/System_Architect_Essentials_72_Student_Guide.pdf)

[System Architect Essentials Exercise Guide](http://pegasystems2.http.internapcdn.net/pegasystems2/lrd_and_reference_docs/System_Architect_Essentials_72_Exercise_Guide_032117.pdf)

## GLOSSARY

* application
  + An application is a business solution that automates work flows in your organization.
  + Multiple unrelated applications can be hosted in the same system.
  + You create an application by running the New Application wizard.
* class
  + A class is a collection of rules or other objects.
  + Each class defines capabilities such as properties, activities, and HTML forms that are available to other, subordinate classes, or to instance of the class.
  + Classes are organized into a hierarchy, where the system searches the class hierarchy from the current class upwards when looking for a rule to apply.
* data class
  + A data class is a concrete class used to represent a data object, such as a person Customer, Vendor in a Pega application.
  + Each data class contains properties and other rules that describe the behavior of the object represented.
* decision
  + In Decision Management, a decision is the result of running a strategy in the interaction context.
  + Several decisions can be involved in a single interaction.
* environment
  + An environment is another system that PMF integrates with or that PMF is managing work for.
  + This could be a Pega 7 instance or a 3rd party application.

# Completing the exercises

When learning new concepts or skills, there is no substitute for learning by doing.

This course includes exercises that provide practical, hands-on experience to help you apply your new skills immediately.

The exercises help reinforce the learning objectives of each lesson.

They include a scenario that describes a business problem that needs to be solved and an overview of the tasks you need to perform to complete the exercise.

To help you complete the exercises, two levels of support are provided:

* Your Assignment – specifies the high level steps you need to perform to solve the business problem provided in the scenario.
* Detailed Steps – shows the series of steps needed to complete the exercise.

It is our goal that you can complete the exercises using the scenario and the tasks noted in your assignment.

Use the detailed steps to check your work, or as a last resort to complete the exercise.

## Exercise environment

The exercise system for this course is available online and accessed through the **Open Exercise System** link on each exercise page.

## Exercise guide reference

While individual exercises are included for each lesson online, you may find it useful to download and print out the complete exercise guide.

This is available in the related content pane on the right side of this lesson.