Introduction to Pega Ethos

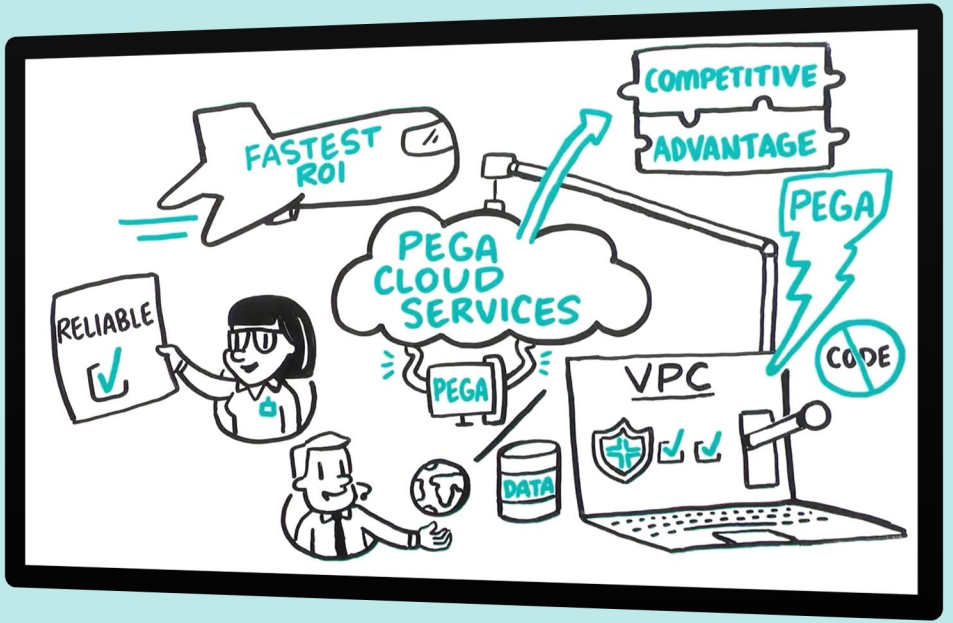
Overview

The ability to create very complex, comprehensive, and future-proof systems using low-code and no-code technology sets Pega apart from other software development methodologies.

This module covers:

- Low-code application design and development
- Pega Platform

*Ethos is derived from a Greek term used to describe distinguishing practices, values and ideals.



Pega ethos – Low-code application development

Enterprise solutions are built using Pega and its ethos.

- Low-code
- Model-driven
- Visual design
- Rule-based
- Reusable components

Pega ethos – Utilizes four technologies

Supports object-oriented concepts	Supports UI mobility	Supports network connectivity	Supports advanced data structures
• Hides implementation details from business architects • Provides system architects with the dynamic, run-time polymorphic behavior	• Hides implementation details from business architects • Helps system architects integrate HTML5, CSS3, AJAX, JavaScript, JSP • Able to build modern, dynamic and responsive UIs	• Common interface to support industry protocols such as REST, JMS, MQ, HTTP, EJB, .NET	• Common interface to all major relational database management systems (DBMS)

Pega Platform installation

- Portal - Browser-based user interface. Used to interoperate with Pega.
- Application Server – Pega Rules Process Commander (PRPC) code, installed and configured based on J2EE technologies.
- Relational Database Management System (RDBMS) - Rules Database is a repository (rules data and application data) for Pega.

Interoperates with PRPC:
Edge, Firefox, Safari, Chrome

Supports J2EE technologies:
EJB, Servlets, JTA, JDBC

Rules repository:
DB2, Oracle, SQL Server

Pega Platform access

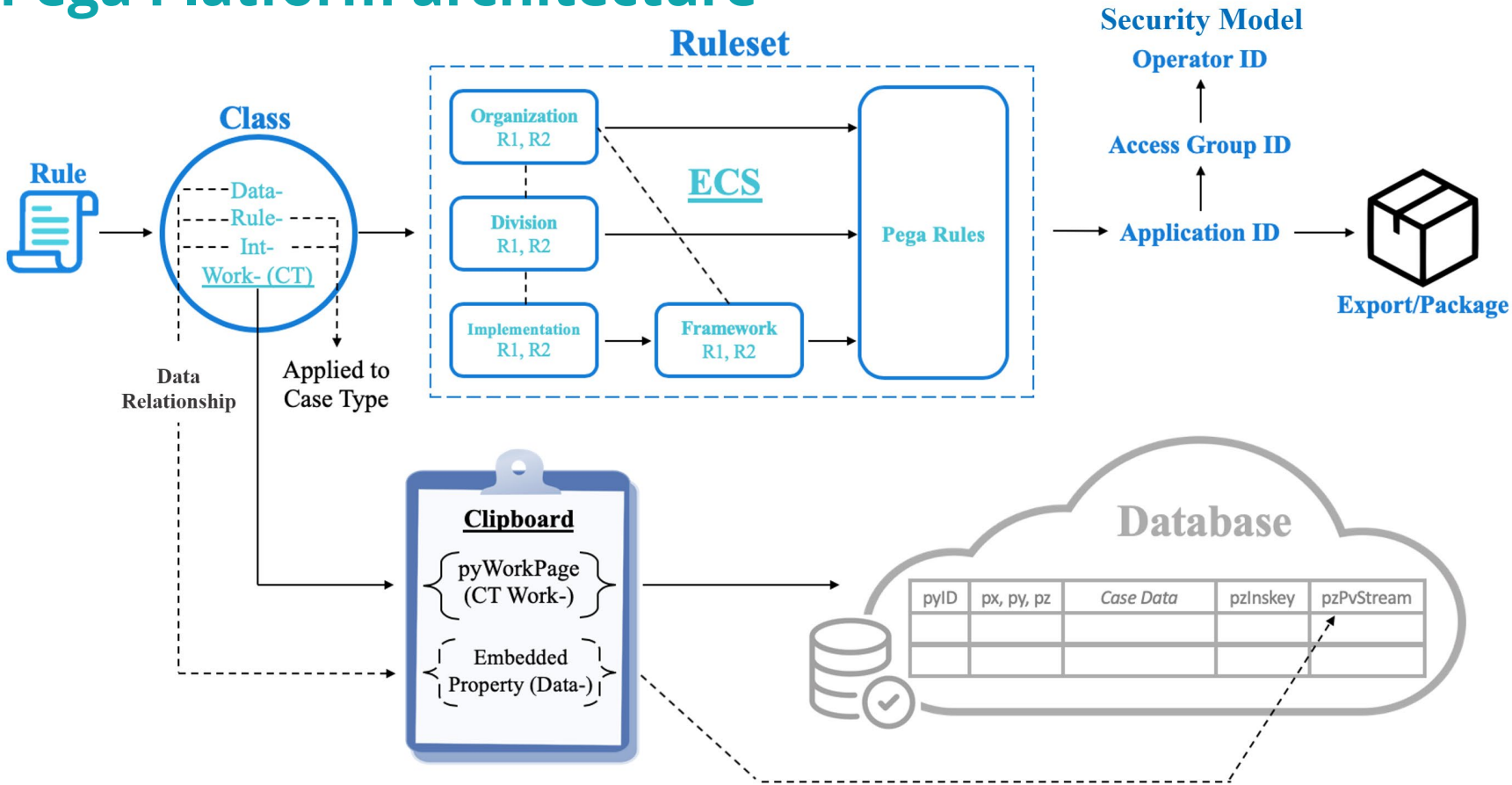
Operator ID rule – User ID and password to access Pega application resources

Access Group rule – Defines the applications available to the user with the level of access (role and privilege)

Application rule – Defines application resources (rulesets, classes and rule instances)

- Rule – Logical instructions
- Class – Grouping of rule instances
- RuleSet – Container of classes and rule instances for deployment

Pega Platform architecture

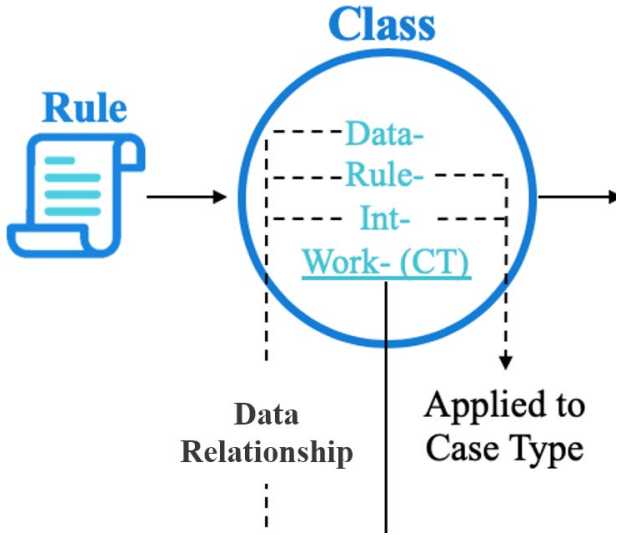


Pega Platform architecture

Rule – 200+ rule types for configuration to generate application code

Class – Rule type for grouping rule instances

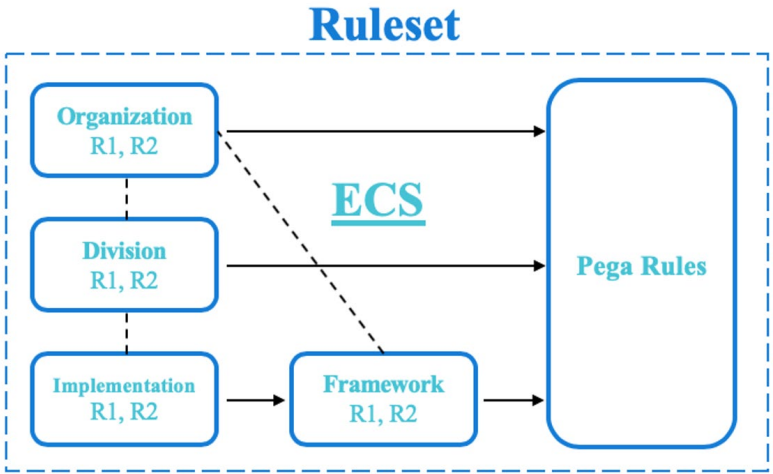
- Rule instances apply to a class or case type
- Data supports data relationships
- Integration supports connector and web services



Pega Platform architecture

Ruleset – Deployment container for a group of rules

- Enterprise class structure is composed of the ruleset stack
- Application can be exported as a Package



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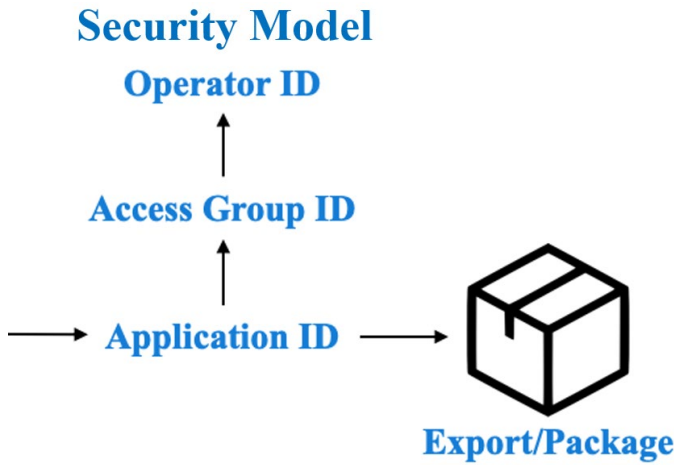

Pega Platform architecture

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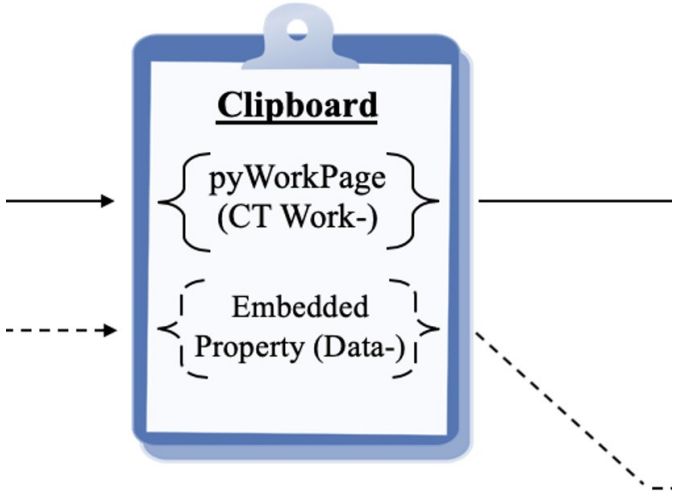
Clipboard – View of memory (pages) for executing object (case) instances (of a class) that are copied from, or stored into the Pega Database or another database



Pega Platform structure

Application can contain multiple case types, consists of a class structure (ECS) and rulesets, can be built on top of other applications to reuse assets

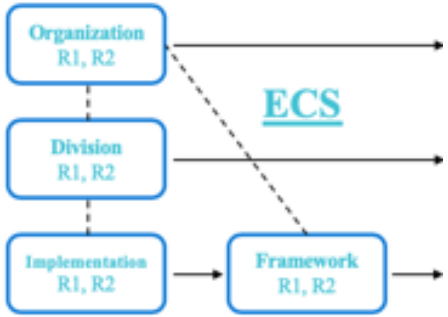
Framework is an application that can be extended and modify to create implementation applications for a specific organization, division, or organization unit

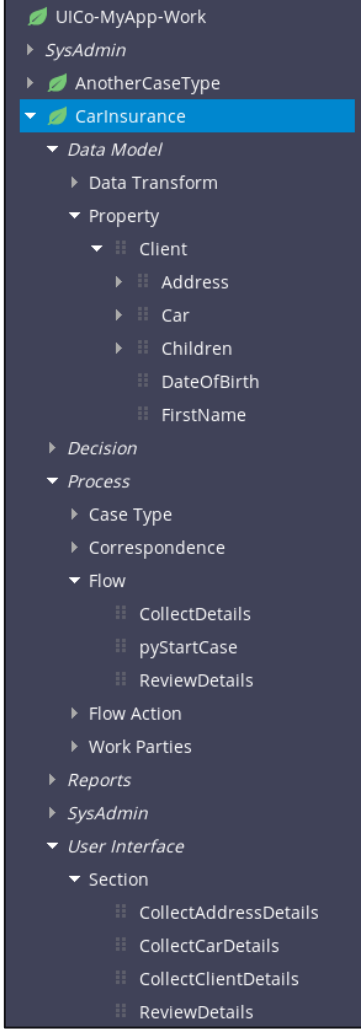
Organization Class represents your organization or company in the class perspective, for reusability and inheritance

Class is a container for rules and has an impact on the scope of the rule (its context)

- Work, Int, Data classes

Rule is a building block of an application





Skill mastery

You understand

- Low-code application design and development
- Pega Platform:
  - Installation components
  - Architecture
  - Structure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