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Training
ROLLBASE BOOTCAMP

Goal   Introduce key concepts of developing, integrating and deploying Progress Rollbase applications in the Cloud

Audience   Experienced Java, JavaScript, HTML and other web-based technology developers
Experienced Progress OpenEdge Developers

Agenda   **Day 1: Getting to know Rollbase:**
- Walkthrough of mapping a customer business challenge into a Rollbase application
- Key design concepts, product goals
- Key components/building blocks
- The Platform and PaaS
- Rollbase Data Model
- The User Interface

Day 2: Key components/building blocks (continued)
- Data views and Searching
- Searching
- Sorting
- Filtering
- Page editor and Grid Controls
- Security and Authentication

Day 3: Integration and Workflow components
- Data views and Searching
- Server side APIs
- Client Side code:
  - HTML event handlers
  - AJAX API
- Integration with:
  - SOAP
  - REST
  - RSS
  - JDBC

- WorkflowSort
- Advanced features:
  - Portals
  - Multi-currency support
  - Approvals
  - Reporting, Charts and Gauges
  - Surveys and Quizzes
  - Google Apps integration
  - Mobile Interface
  - Localization
- Set up and Administration
- Publishing and Distributing Applications
- Installing and Configuring

Day 4:
- Expose OpenEdge data for Rollbase.
- Learn the data transport way between Rollbase and OpenEdge. Implement CRUD operations and filtering.
- Prepare OpenEdge backend and build compatible services for Rollbase. Link the OpenEdge service into Rollbase and expose data.
- Combine the best out of both worlds.

Follow on Webinar Series:

Day 1:

Application Design [Lecture only]
- Take a concept and learn to map it into the Rollbase environment. Step through the process of quickly transforming a customer's business requirements into a Rollbase application.

Rollbase Architecture [Lecture, demo and walk through of code]
- Understand the extensible Rollbase PaaS model. Take a browser base application and extend the functionality, with common and familiar development tools (e.g. Java, JavaScript, REST, SOAP, etc.). Add database connectivity, integrate with existing services, SSL , etc. [Chapter 1]
- Explore the key components of the user interface model and database connectivity

Application Development process overview [Lecture and labs]
- Build the Rollbase data model using point and click wizards to set up objects, fields, relationships and other data modeling features. [Ch2 Objects and Fields]
- Create Application Pages and Forms with the time saving, innovative, real-time drag and drop features.

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- Learn how to use the robust tool sets to quickly build and tune applications. The WSIWYG editor has features such as Tabs and Menus, fields (supporting 25 different field data types),
- Pages and Forms with enhanced features such as Custom Event Handlers, AJAX API, views, gauges, charts and reports to enhance developer productivity. [Ch2 Applications]

Day 2:
Data Views and Searching [Ch 3] [Lecture and labs]
- Enhance end user productivity by providing tools to simplify segmenting and analysis of data. Rollbase provides the tools to segment, sort, filter, group and provide totals on query results. Other features include the ability to merge, convert, compare and email results.
- Extensive built in Search capabilities include wild card, proximity, fuzzy searches, and support for escaping special characters, object specific search and language specific issues.
- Learn to utilize the Page Editor and Grid controls [Ch 4]

Security and Authentication [Ch 11] [Lecture only]
- Tight security is required in all applications today. Rollbase provides a flexible, role based permission and access control system. Rollbase ensures data security and can control access from the application to individual field level.
- Discussions cover support of LDAP, SSO, Password Expiration policies, IP Whitelisting, SSL and HHTPS, User roles and permissions.

Day 3:
Integration [Ch 6 , 7 & 15] [Lecture and labs]
- Examine the frameworks for:
  - Server side API usage to support QUERY, OBJECT_SCRIPT, USER_SELECTION, PDF PROCESSING, HOSTED FILE, HTTP REQUESTS, XML and JSON PARSING, TRIGGER to TRIGGER data transfer, MULTI CURRENCY Conversion and DEBUGGING operations.
  - Client side AJAX API HTML event handlers including AJAX QUERY, DISPLAY functions, FIELDS MANIPULATION, DATA FORMATTING, USER SELECTION, GRID CONTROL and other functions.
  - Web focused integration :
  - SOAP (Web API)
  - REST API
  - RSS and
  - JDBC
- Workflow and Triggers
- Learn to utilize the workflow engine that allows you to define custom automated and user driven workflow rules and logic. This includes process automation, triggers, validation rules and approval.

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Reporting, Charts and Gauges [Ch 5]
- Explore the feature rich reporting module that provides tabular reporting, document template, HTML template and other reporting features.

Survey of Advanced topics [Ch 13]
- Multi-Currency Support
- Approvals
- Surveys and Quizzes
- Google Apps Integration
- Mobile Interface

Setup and Administration [Ch 14]
- Administration setup
- Localization

Publishing and Distributing Applications [Ch 16]
- Applications as Container for objects and other components
- Special type of Applications
- Publishing and Installing

Set up and Administration for ISVs
- Hosted ISV Account setup process

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- Using the ISV Partner Application

Installing and Configuring Progress Rollbase Private Cloud
- Types of Progress Rollbase Private Cloud Editions
- License restrictions
- License Error
- Using the integrated Private Cloud installer
- Installation Guide
- Configuration Files
- Scaling Rollbase with Cluster Edition

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