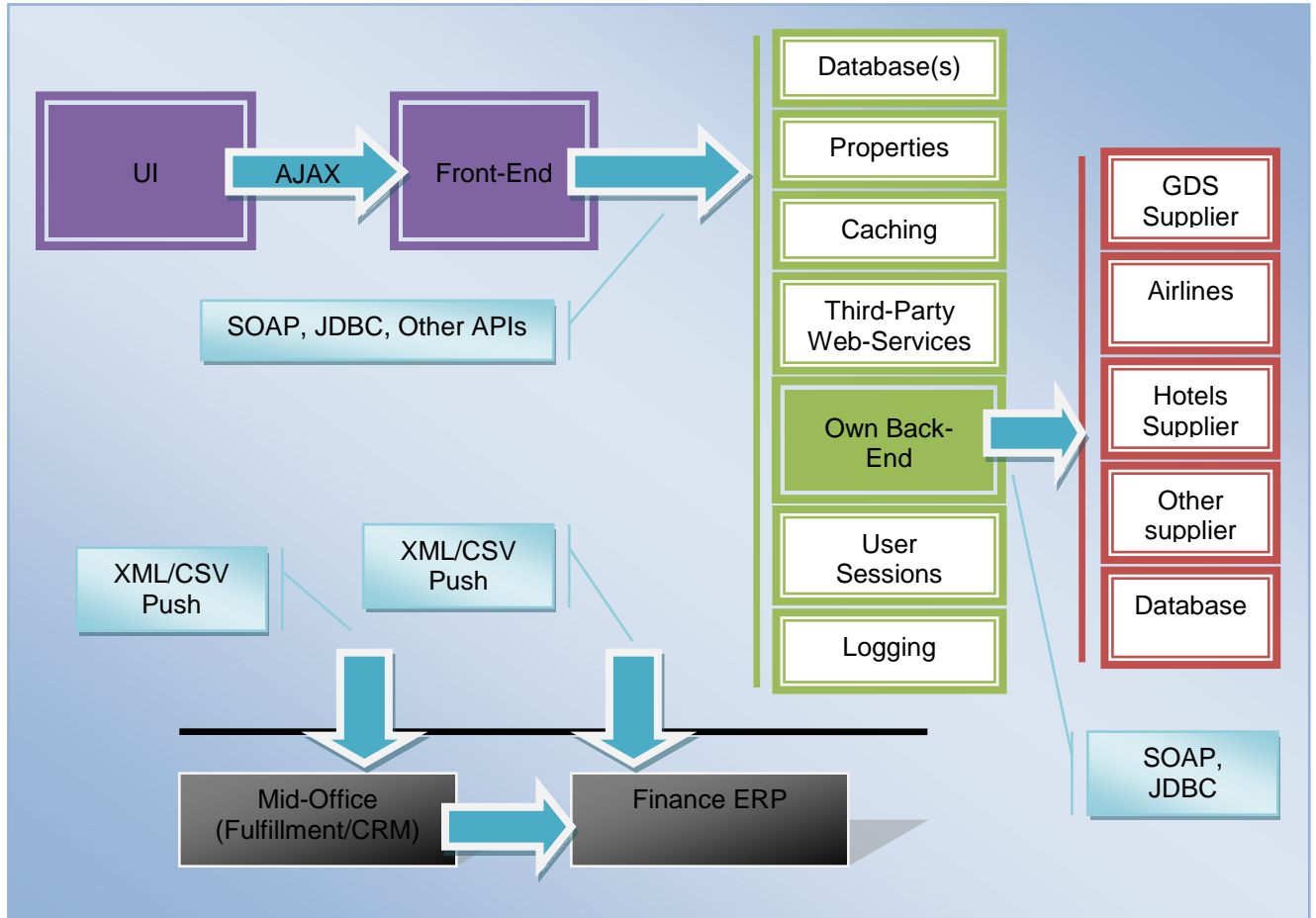


Pro<DOC/>™ Travel Technology – An Introduction

From Rightangle Technologies Private Limited (www.righthangle.co.in)

1 On-line Travel – Technology Components

We start the discussion by first painting the technology spectrum of an on-line travel system, and then describe how Pro<DOC/>™ fits at each level.



2 Pro<DOC/> as a platform for On-line Travel Solutions

Pro<DOC/> is a complete platform for building On-line travel solutions fully covering the following major components-

1. Front-End
2. Back-End
3. Mid-Office & CRM

Much of the business processing would reside in these blocks and Pro<DOC/>™ simplifies the development by hiding the details of technical intricacies of interfacing with most of the environmental components. The high-lights of the platform are-

1. An integrated application designer, which allows the applications to be built using a high-level Business Rules interface with minimal or no programming. Low-level programmed modules can be added as Java classes and methods.
2. Provides a high-level abstraction of Databases, Memory Caches, Session Management, Logging, Property files, Web-Services, etc. allowing these to be used without any knowledge of programming APIs for the same.
3. Reduces the skill requirement for programmers in development and maintenance teams. The developers only need to know core Java and the Pro<DOC/>™ framework. No knowledge of frameworks like Spring/Hibernate or Struts, JDBC, Logging frameworks, SOAP, AJAX, JSON, POJO, Web-Services/WSDL etc. is required. A typical engineer with 0-3 years of Java programming experience can be hired for development.
4. Supports all major databases automatically, the user is completely shielded from the internal SQL.
5. Cuts the development and maintenance effort/time down to 20%.
6. Increases maintainability many fold.
7. Helps create business process documentation.
8. Installs and runs on Windows as well as Linux based environments.

2.1 Front-End Development

The Pro<DOC/> front-end is developed as an HTTP server for JSON/AJAX objects for use from the HTML UI through AJAX calls. This approach helps keep the design modular by creating a separation between the UI and the server side code.

1. Develop Business Procllets from a high-level designer UI, with minimum or no programming.
2. Automatically import XSD schema, Database definitions, and WSDLs into the designer.
3. Access Databases (choose your database from Oracle, MySQL or MS-SQL), Web-Services, Memory Caches, Session data, Logging, Properties etc. as high-level abstractions, without having to deal with individual APIs.

4. Integrate user-written business logic in Java.
5. Render results as JSON or XML.

2.2 Back-End Development

The Pro<DOC/> back-end is developed as SOAP Web-Services for use from the Front-end or third-party applications.

1. Develop Business Proclets from a high-level designer UI, with minimum or no programming.
2. Automatically export WSDL, for third-party integration.
3. All high-level abstracts available to Front-End are available to Back-End as well.

2.3 Mid-Office Development

1. Create business processes, schema, forms, workflow rules from a designer – no programming required.
2. Integrate documents into the processes.
3. Initiate processes automatically from Front-end, back-end processes or receive through XML push or Email.
4. Built-in CRM module – can be easily enhanced or replaced with custom implementation
5. Full audit trail of changes for accountability and traceability.
6. Integrated data analytics.
7. Create workspaces on the fly – no programming required.
8. Write integration code with minimal programming.
9. Write business validations and rules with minimal programming.

3 Pro<DOC/ > Highlights

- ✓ Cut development and maintenance costs down to 20%
- ✓ Reduce skill requirements to core programming skills only
- ✓ Reduce “Time to Market” and increase responsiveness to business changes
- ✓ Reduce total cost of ownership
- ✓ Full coverage – Front End, Back End, Mid Office
- ✓ Design business processes on the fly
- ✓ Full support for all major databases (MySQL, MS-Sql, and Oracle)