



Implementation of E-Commerce workflows using Apache OFBiz ERP

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About the Project

Goals: Implementing three workflows (Shopping, Payment, Delivery).



Requirements: Server machine, Apache OFBiz ERP system.

Output: RDF format reports.

E-commerce

E-commerce or **eCommerce** stands for Electronic commerce which involves communications and doing business electronically through the internet. By using Internet and WWW services, organizations are implementing PDM, SCM and CRM[1].

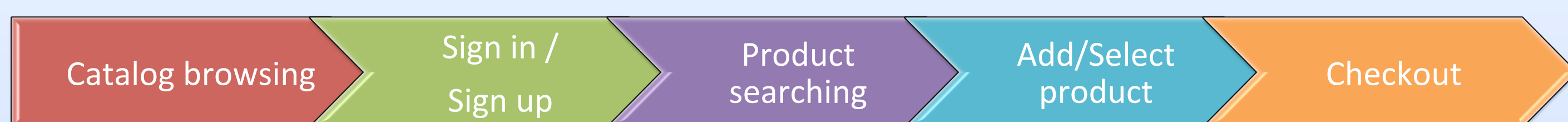
ERP and Apache

- Enterprise Resource Planning (ERP) - business management software to collect, store, manage and interpret data from many business activities: product planning, manufacturing, inventory management, shipping and payment.
- Most popular ERP systems: ERP5, Open ERP, SAP suite 1.
- Apache OfBiz- an open source ERP system provided by Apache Software Foundation

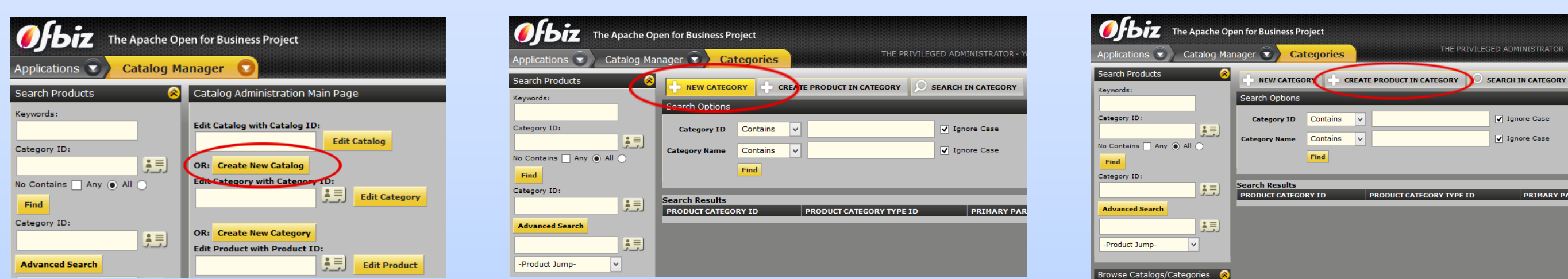


Shopping- Workflow

Customer Side:



Client Side:



1- Creating Catalog

2- Creating Category

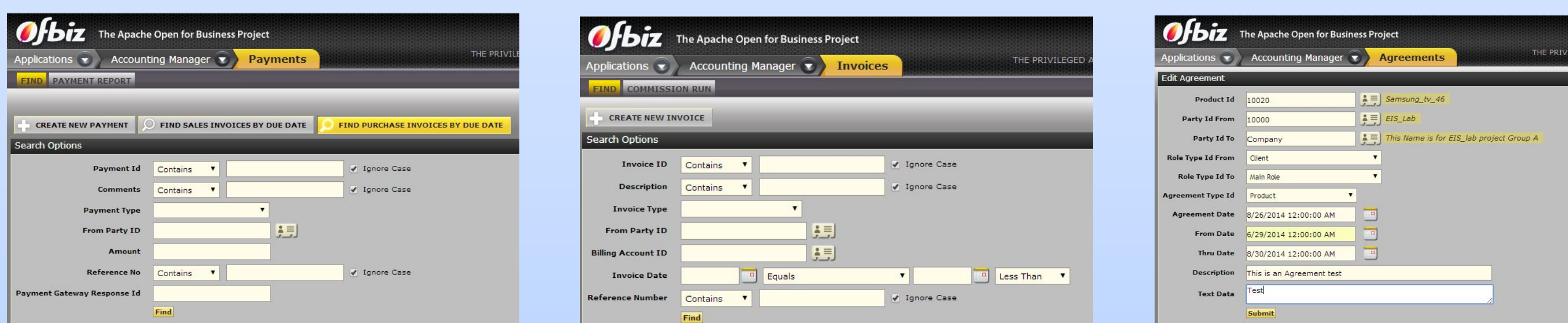
3- Creating Product

Payment Workflow

Customer Side:



Client Side:



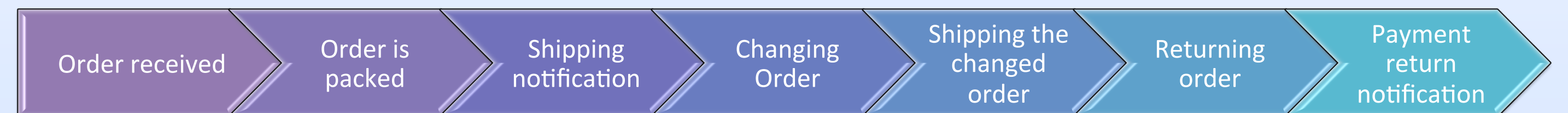
1- Find existing payment

2- Creating Invoices

3- Creating Agreement

Delivery Workflow

Customer Side:



Client Side:



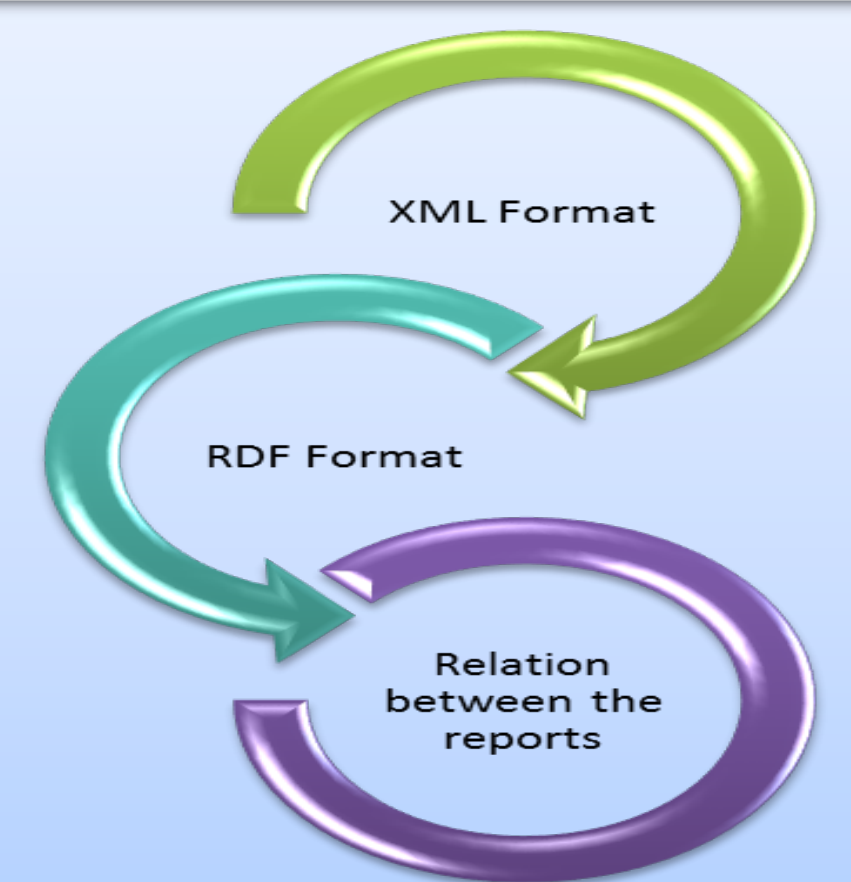
1- Multiple shipment

2- Finalizing order

3- Packaging order

Converting Reports to RDF format

- Finalized OFBiz's reports are generated in XML format.
- The R2RML tool (<http://x2r.aut.ac.nz/x2r.jsp>) is used to convert XML to RDF format.
- RDF report data can be easily integrated and linked with data about products, companies and so on.



So how to start ?



- Understanding ERP, E-Commerce, OFBiz and the relation between them.
- Installing Apache OFBiz and the related software.
- Learning and Understanding the Apache OfBiz and then Implementing E-Commerce on it.

Future Work

Other workflows can also be implemented which are:

- Facility and Warehouse Management
- People and Group Management
- Human resources (HR)
- Sales Force Automation
- Accounting (Agreements, Invoicing, Vendor Management, General Ledger)

Virtual Machine Description

Hostname: **vm-ofbiz**

Software installed:

Installed on: EIS3

- ◆ Ubuntu 14.04 LTS 64bit OS
- ◆ 1GB RAM
- ◆ 2 CPUs.
- ◆ jdk1.7 (/usr/local/java)
- ◆ Apache-ant-1.9.4 (/usr/share/ant)
- ◆ Apache-ofbiz-11.04.04 (/usr/lib/apache-ofbiz-11.04.04)

Local Access:

User: eis-user

Password: E1sofBiz2014



Remote Access:

Partner ID: 491395165

Password: E1sofBiz2014

Resources :

[1] : Sharma, H., Lavana, D., & Gupta, N. (2011, June 1). ERP E-BUSINESS = An emerging relationship. Retrieved September 15, 2014.