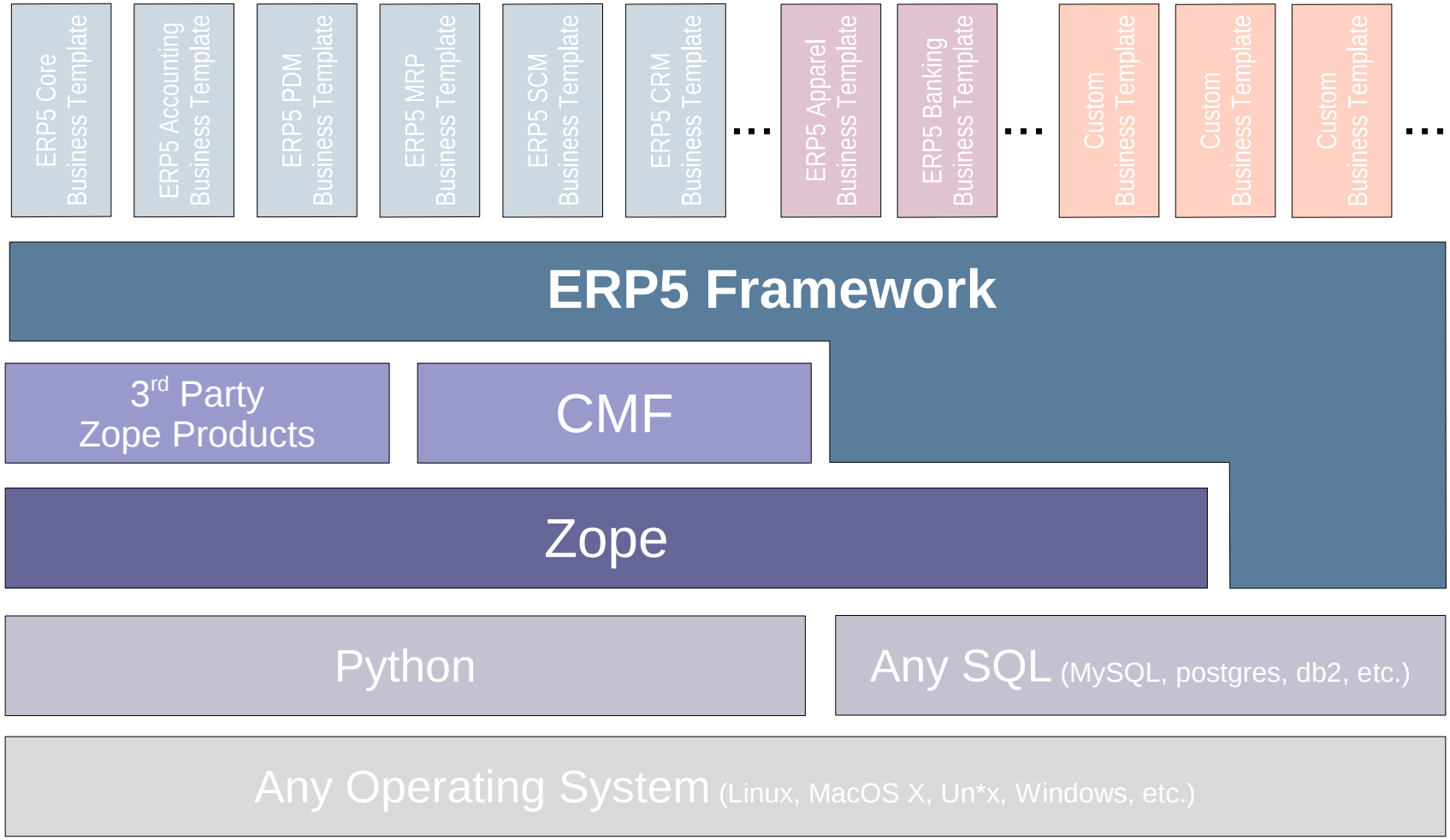
ERP5 Technology Introduction



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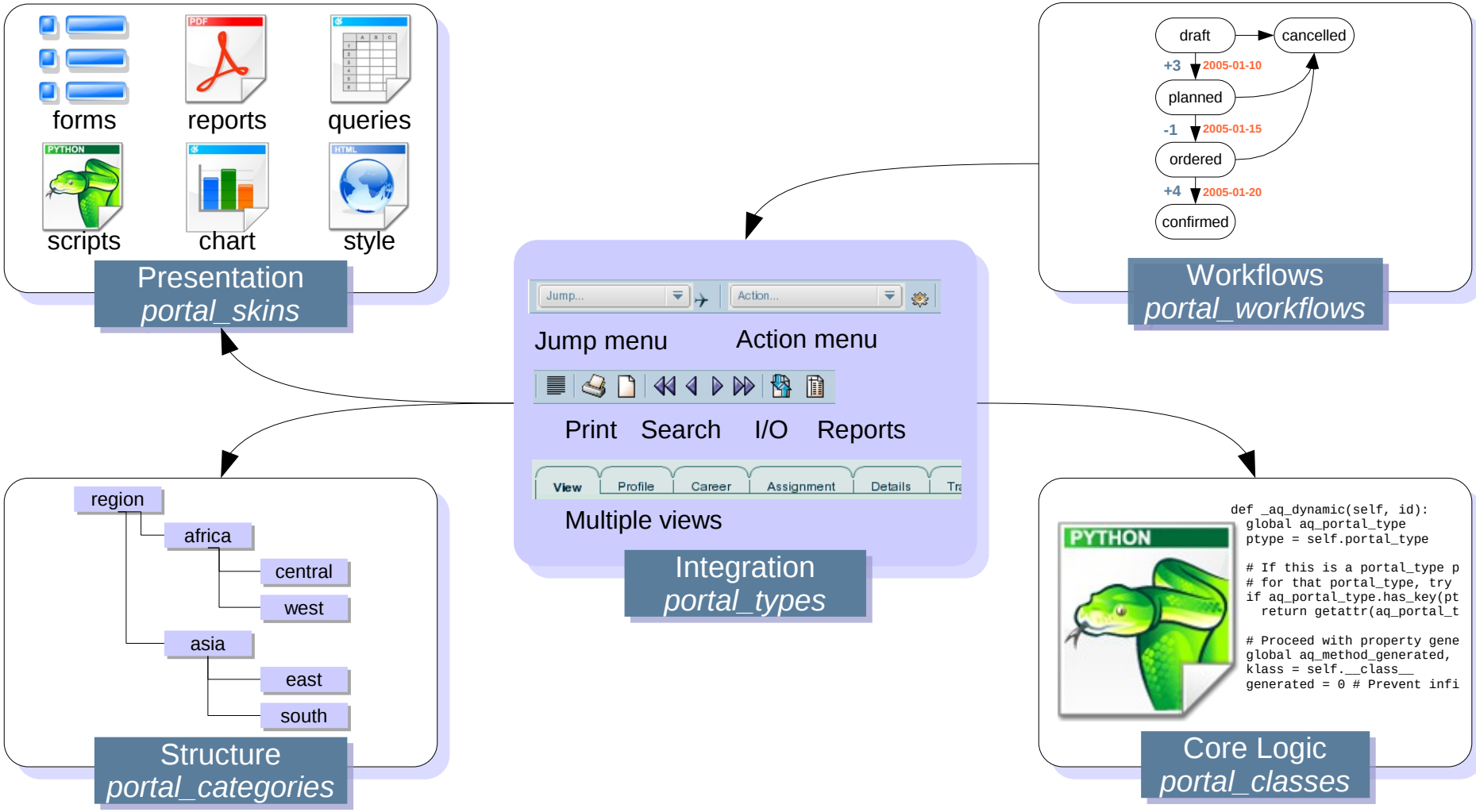
ERP5

Rapid Application Development TTW



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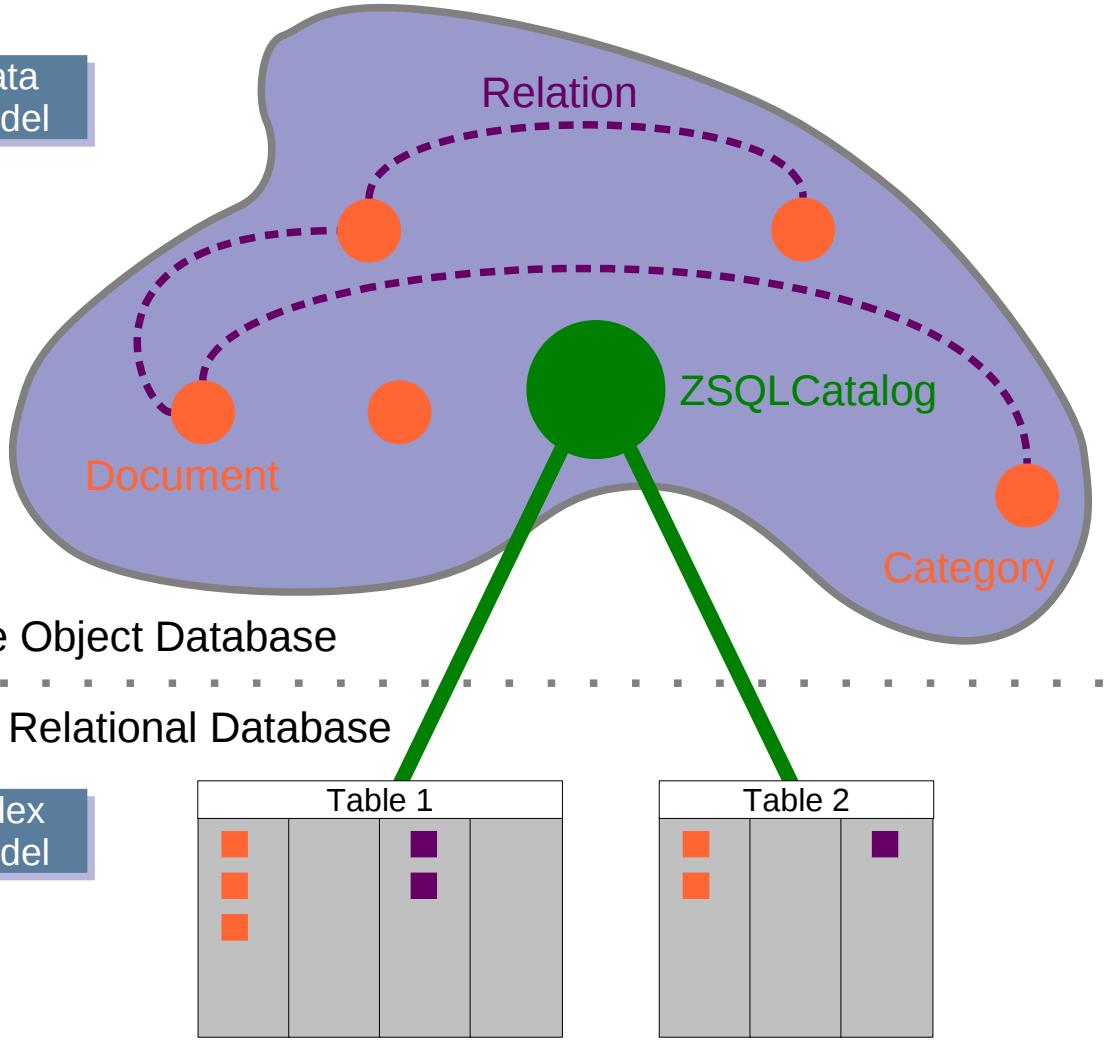
Data Model ≠ Index Model

Data Model



Zope Object Database

SQL Relational Database

Index Model

Definition: PropertySheet

```
_properties = ({
  'id'   :  'quantity',
  'type' :  'float',
  'mode' :  'rw',
  'acquisition_base_category' : ('parent',)
  },)
```

Scripting: Method Calls

```
document = module.newContent()
document.setQuantity(1)
document.setResourceValue(resource)
document.confirm()
document.expand()

document.zGetTotalQuantity()
```

Queries: SQL

```
SELECT SUM(quantity) FROM table1

SELECT path FROM table2
  WHERE quantity > 10
  GROUP BY resource_uid
  ORDER BY start_date
```

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Dynamic method generation

	Id		Read Accessor	Write Accessor	Test Accessor	Workflow Method
Property	some_property	*all*	getSomeProperty	setSomeProperty	hasSomeProperty	edit
		boolean	isSomeProperty			
		list, lines	getSomePropertyList	setSomePropertyList		
			getSomePropertySet	setSomePropertySet		
			getDefaultProperty	setDefaultProperty		
Category	some_category	relative_url	getCategory	setCategory	hasSomeCategory	edit
			getCategoryList	setCategoryList		
			getCategorySet	setCategorySet		
			getDefaultCategory	setDefaultCategory		
		object	getCategoryValue	setCategoryValue		edit
			getCategoryValueList	setCategoryValueList		
			getCategoryValueSet	setCategoryValueSet		
			getDefaultCategoryValue	setDefaultCategoryValue		
		title	getCategoryTitle			
			getCategoryTitleList			
			getCategoryTitleSet			
			getDefaultCategoryTitle			
Workflow	some_state		getSomeState			edit
	some_method					someMethod

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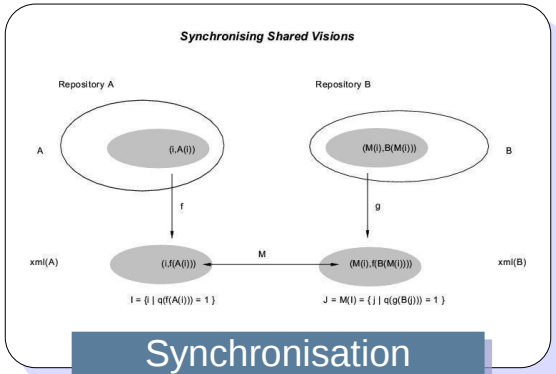
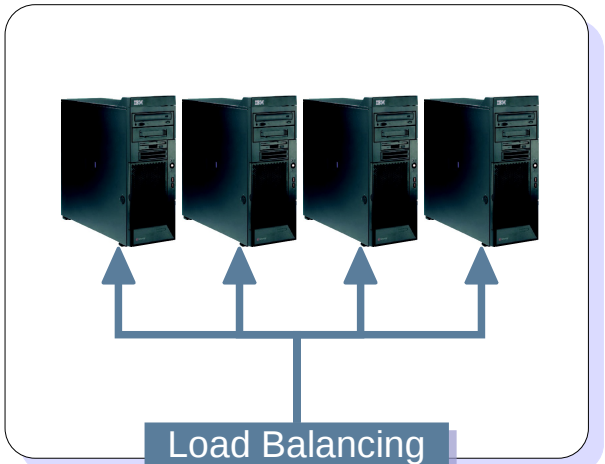
Scalability Components



Synchronisation
portal_synchronizations



Load Balancing
sbalance

Activities
portal_activities

Alarms
portal_alarms

Printing
portal_reports

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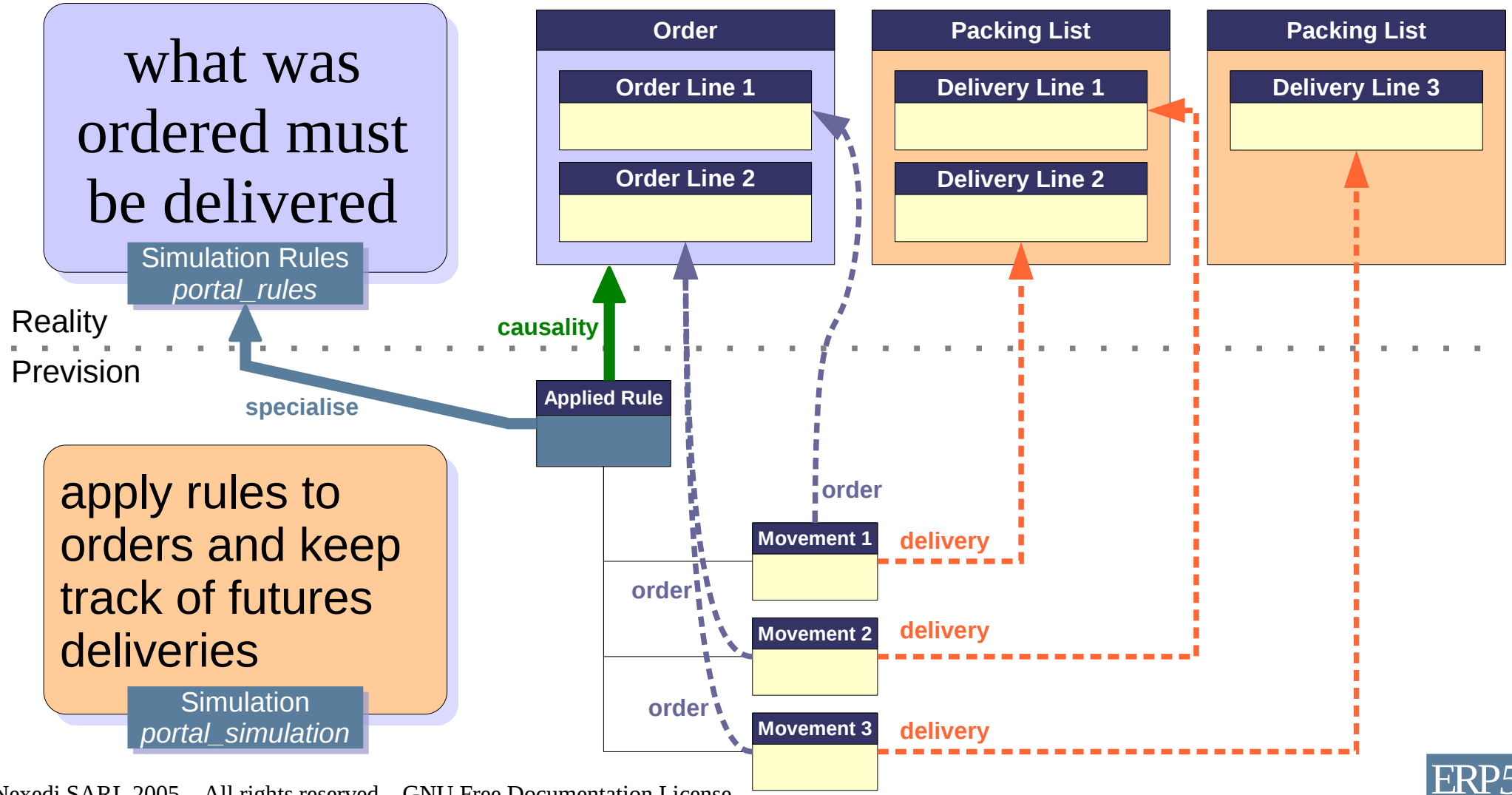
Simulation Based Planning



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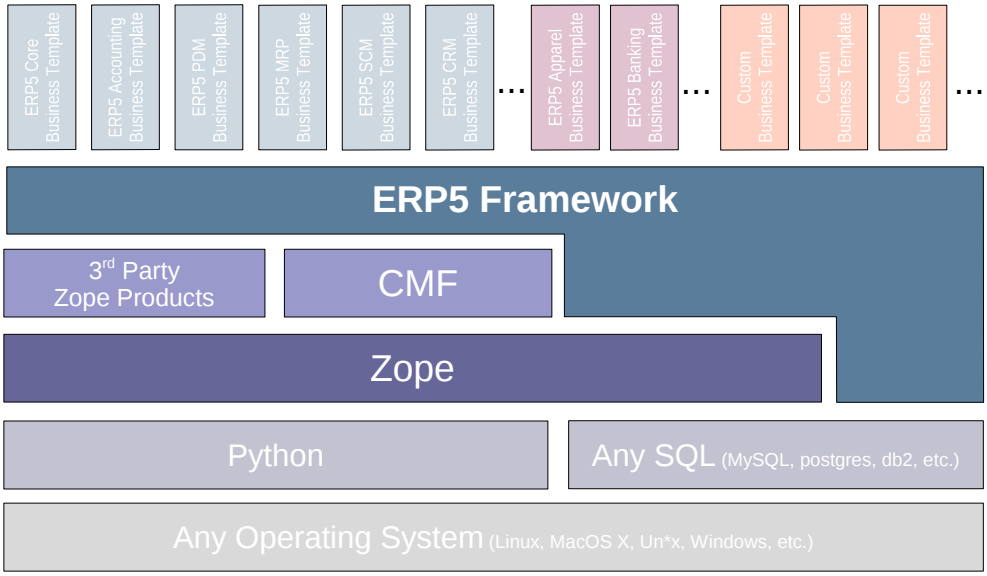
ERP5 Technology Introduction



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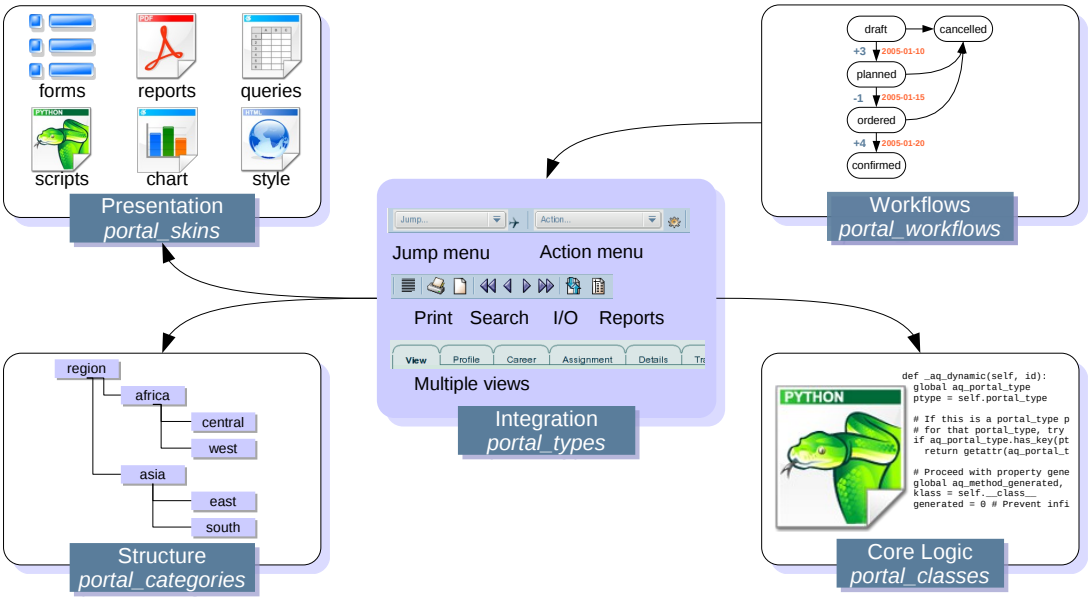
Rapid Application Development TTW



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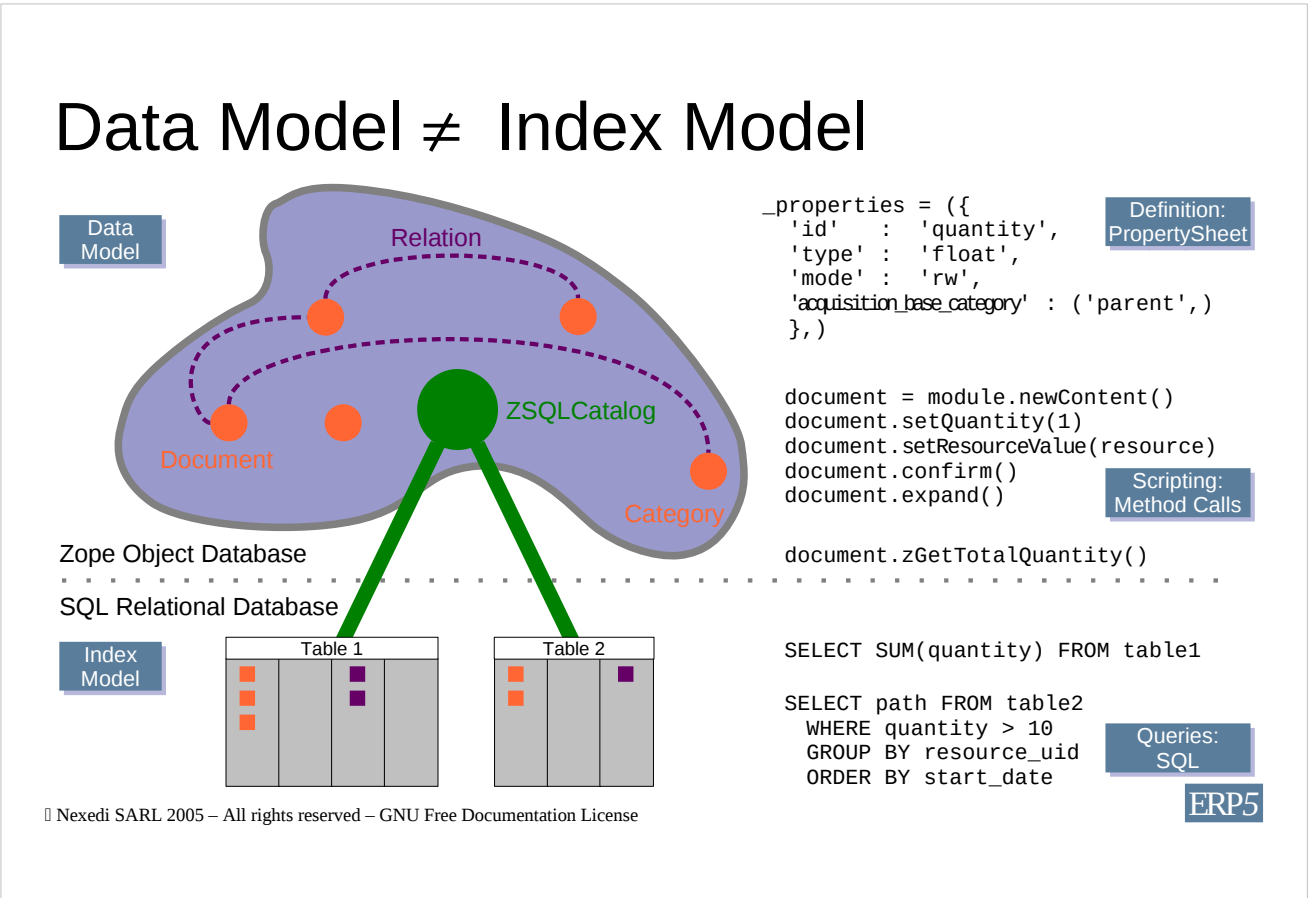

Open Portal. ERP5 is first of all a multilingual portal which provides a complete ERP reference to developers and consultants. Information related to ERP systems in general and ERP5 in particular is published there: URLs to legal accounting texts, to useful software, to management textbooks, ERP5 news, technical notes, downloadable code, etc. R&D projects and special interest groups are also hosted on www.erp5.org in so-called "workspaces".

GPL Framework. ERP5 is a generic ERP framework which covers a wider range of applications than traditional ERPs thanks to extensible component technology. ERP5 is Free Software: it consists of more than 100,000 lines of python and XML code published under GPL licence. ERP5 code can be freely redistributed, customised or extended by ERP5 service providers or by ERP5 users.

Business Templates are software packages which instantly turn the ERP5 framework into a meaninful application. Business Templates consist of XML code which instantiates generic modules (accounting, PDM, MRP, CRM, etc.) or industry specific modules (Apparel, Banking, etc.). Business Templates are the preferred way of sharing and publishing ERP5 based application on the ERP5 Open Portal.

ERP5 LiveCD is the easiest way of operating an ERP5 server. The LiveCD includes all technologies required to run ERP5: operating system, database server, application server, web server, clustering, etc.. Installation takes less than 5 minutes and requires no human intervention. ERP5 data is stored on hard disk.

Enterprise Services are provided by a network of certified companies. Services include training, consulting and custom development.

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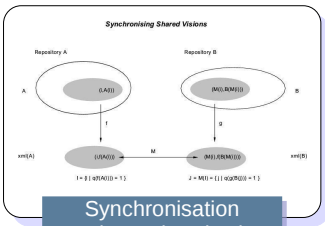
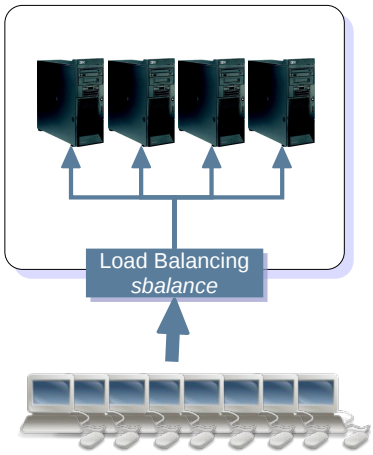
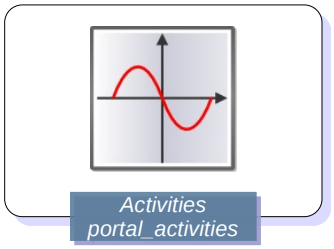
Scalability Components



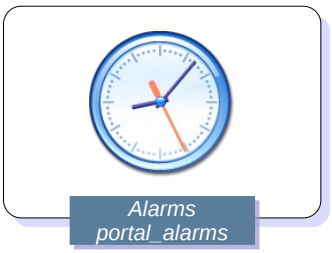
Synchronisation
portal_synchronizations



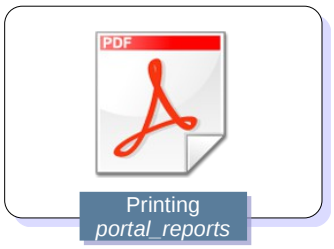
Load Balancing
sbalance



Activities
portal_activities



Alarms
portal_alarms



Printing
portal_reports

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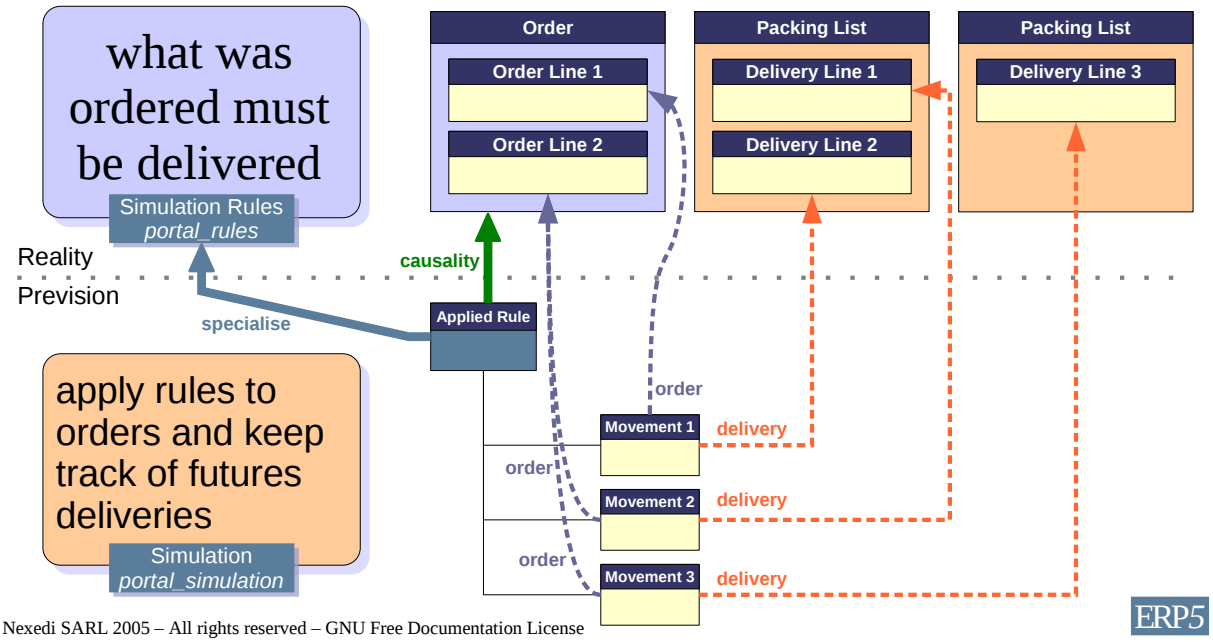
Simulation Based Planning



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