



Universidade do Porto

FEUP Faculdade de
Engenharia

Sistemas de Informação

Information Systems

Team Projects/Integration with ERP Primavera

Primavera Solutions



Cloud/Mobile Services

- ☐ Electronic Invoicing
- ☐ Workflow Approval
- ☐ Employee Self Service
- ☐ Electronic Payments
- ☐ Partners Solutions

 Leads and Opportunities	 Logistics	 Balances	 Production
Leads and Opportunities	Logistics	A/P and A/R	Master Data
Sales	Purchasing	Banks	Planning
POS	Inventory Management	General Accounting	Controlling
 Assets	 Management Tools		
Human Resources	Cash Flow	Controlling	
Fixed Assets and Equipments	Projects	Contracts Management	

Vertical Solutions

- ☐ Plant Maintenance
- ☐ Sales Force Automation
- ☐ Quality Management
- ☐ Logistics and Distribution

Industry Vertical Solutions:

Engineering and Construction

Retail

Fashion Retail

Catering

Reporting Tools

- ☐ Business Analytics
- ☐ Office Extensions
- ☐ Fiscal Reporting

Team Projects

Evaluation

- **60% of the global evaluation of the Information System lecture**
 - Team project to develop a webapp with integration with PRIMAVERA ERP
- **Team Project detail**
 - *25% - Functional specification (09 / 13 - Oct)*
 - *25% - Interoperability (Test w/ ERP) and Prototype Presentation (06 / 10 - Nov)*
 - *(50%) Final Presentation (11 / 15 Dec)*
 - 40% - Final Presentation (15 Minutes + 5 minutes Q&A)
 - 10% - Report of the Project (max 20 pages - Times-New-Roman 12)
- Teams with 4 elements

Lectures Planning

		Primavera 1 st Workshop				
	18/22-09-2017	25/29-09-2017	02/06-10-2017	09/13-10-2017	16/20-10-2017	23/27-10-2017
Week	1	2	3	4	5	6
Summary	ERP - Basic Concepts	ERP - Basic Concepts Team Project: Mockups + Features + Team Project Specifications and Scope	Workshop VM/Integration. DEMO. Support on the adjustment of the students Mockup and definition of scope of the team project and of the specifications	Project Tracking and Support	Project Tracking and Support	Project Tracking and Support
Student Deliverables			Virtual Machine	Functional Specifications Information Architecture and Final Project Plan - Gantt with tasks (list of features, alignment to the structure and to the functional module and resources)		
Evaluation	Continuous	Continuous	Continuous	25%	Continuous	Continuous

Lectures Planning

			Primavera 2 nd Workshop				
	03-11-2017	06/10-11-2017	13/17-11-2017	20/24-11-2017	27/11 - 01-12-2017	04/08-12-2017	15-12-2017
Week		7	8	9	10	11	12
Summary	FEUP Week	Project Tracking and Support	Project Tracking and Support	Project Tracking and Support	Project Tracking and Support	Project Tracking and Support	Project Tracking and Support
Student Deliverables Remarks	Extra Lecture (Friday lectures) ?	Interoperability : WS layer Demo: Model, Controller + API C# Primavera + ERP validation Primavera + Documentation + Prototype Presentation (with views/forms)			Public Holiday on Friday Lecture	Public Holiday on Friday Lecture	Final Presentation and Report
Evaluation	Continuous	25%	Continuous	Continuous	Continuous	Continuous	50%

Team Projects Themes

PID	P1
Project	Online/Web Store
Overview	Develop an Online store that allows to the customer, besides the usual shopping cart and purchase order registration, access the product catalog, inquire inventory by warehouse/store location, track the status of its order, and other functionalities.
ERP - Extensibility Objectives	Create an External Auth layer to create customer, stock inquire, create orders, get order status (table "cabecdocstatus" on ERP).
ERP - Basic Usage Objectives	<ul style="list-style-type: none">- Proper Master Data definition (Warehouses/Stores, Items, Item Categories, Customers, ...)- Understanding of the basic flow of sales- Understanding the stock management and pricing
Information/Functionalities Reference Sources/Examples	<ul style="list-style-type: none">- Amazon.com- Fnac.pt- Farfetch.pt
Remarks	Primavera's ERP does not have document status for the Store purpose. "cabecdocstatus" linked tables must be used to inquire the order status. The suggested status should be interpreted as so.

Team Projects Themes

PID	P2
Project	Sales Order Picking
Overview	Create a Web App that allows the user to make a picking process of a sales order, generating a delivery note and manage the inventory
ERP - Extensibility Objectives	Create an External layer to authenticate the user, create a picking wave, suggest routes, read inventory, register exceptions on inventory, Create ERP user tables to register the picking lists, ...
ERP - Basic Usage Objectives	<ul style="list-style-type: none"> - Proper Master Data definition (Warehouses/Stores, Items, Item Categories, Customers, ...) - Get Sales Orders, Create and adjust inventory/stock - Create warehouses/locations, ...
Information/Funcionalities Reference Sources/Examples	<ul style="list-style-type: none"> - Microsoft Dynamics AX - SAP ERP - SAGE X3 - EyePeak
Remarks	Primavera's ERP does not have WarehouseManagement capabilities as many other ones. The picking process can be complex. Picking Waves, Inventory Replenishment algorithms, Routes should be addressed.

Team Projects Themes

PID	P3
Project	360º Company Dashboard
Overview	Develop a Web app to provide to a complete information of the company status, regarding the information that is contained on the SAF-T (standard audit file for tax purposes) and information regarding sales orders, purchases, inventory, and accounts payable, using a dashboard to provide high level/graphical information with drill down functionalities
ERP - Extensibility Objectives	Create an External Authorization layer , generate SAF-T file from an external file.
ERP - Basic Usage Objectives	<ul style="list-style-type: none"> - Proper use of master data, create customers, ... - Register Sales Orders, Delivery Notes, Invoices - Register basic accounting transactions - Register payments and costumer receipts - Understand the content of the SAF-T file
Information/Funcionalities Reference Sources/Examples	<ul style="list-style-type: none"> - SAP Business Objects, - QlikView - Power BI
Remarks	<p>Inspite of not having inbound ERP transactions and postings, the students must understand how the data that will be the source of the dashboard is generated in the ERP and its functional purpose.</p> <p>The proper usage of the ERP and a complete data insertion should be addressed.</p>

Team Projects Themes

PID	P4
Project	Sales Force Automation
Overview	Develop a Web App to manage the agenda of the sales representative, regarding target customers, register customer visits, register sales orders, customer profiles and status, ...
ERP - Extensibility Objectives	<ul style="list-style-type: none"> - Create an External Authorization layer , create sales rep, create customer groups/targets, create visiting routes - Register Sales Orders, Create Leads/Prospects - Register summaries of customer visits and needs - Manage product catalogues, ...
ERP - Basic Usage Objectives	<ul style="list-style-type: none"> - Proper Master Data definition (Wharehouses/Stores, Items, Item Categories, Customers, ... - Get Sales Orders, Create and adjust inventory/stock - Reserve stock
Information/Funcionalities Reference Sources/Examples	<ul style="list-style-type: none"> - Salesforce.com - SAP CRM - Microsoft Dynamics CRM - Vtiger
Remarks	This is also a very valuable project and market demanded. Mobile SFA is also an alternative (iOS, Android) for the Web App.