

أكاديمية الحكومة الالكترونية الفلسطينية

The Palestinian eGovernment Academy

www.egovacademy.ps

Process Integration and Service Oriented Architectures

Introduction & Outline

Dr. Mohammed Aldasht

Palestine Polytechnic University

mohammed@ppu.edu



Reviewed by Prof. Marco Ronchetti and Prof. Paolo Bouquet, Trento University, Italy



About

This tutorial is part of the PalGov project, funded by the TEMPUS IV program of the Commission of the European Communities, grant agreement 511159-TEMPUS-1-2010-1-PS-TEMPUS-JPHES. The project website: www.egovacademy.ps

Project Consortium:



Birzeit University, Palestine (Coordinator)



Palestine Polytechnic University, Palestine



Palestine Technical University, Palestine



Ministry of Telecom and IT, Palestine



Ministry of Interior, Palestine



Ministry of Local Government, Palestine



University of Trento, Italy



Vrije Universiteit Brussel, Belgium



Université de Savoie, France



University of Namur, Belgium



TrueTrust, UK

Coordinator:

Dr. Mustafa Jarrar
Birzeit University, P.O.Box 14- Birzeit, Palestine
Telfax:+972 2 2982935 mjarrar@birzeit.edu



© Copyright Notes

Everyone is encouraged to <u>use</u> this material, or part of it, but should properly <u>cite the project</u> (logo and website), and the author of that part.

No part of this tutorial may be <u>reproduced or modified</u> in any form or by any means, without prior <u>written permission</u> from the project, who have the full copyrights on the material.



Attribution-NonCommercial-ShareAlike CC-BY-NC-SA

This license lets others remix, tweak, and build upon your work noncommercially, as long as they credit you and license their new creations under the identical terms.



Prerequisites: OO, programming Web Services using C#

This tutorial can start after taking <u>Tutorial 1</u> and <u>sessions 1-4 from tutorial 2</u>

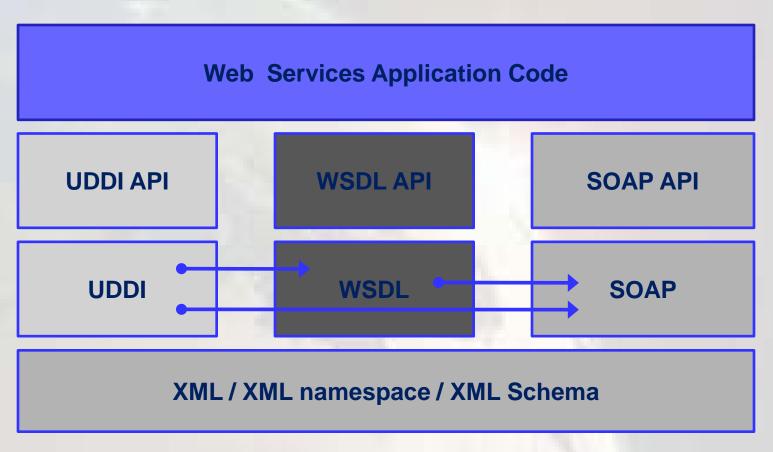
Inte	nded Learning Objectives
A: Knowledge	and Understanding
3a1: Demonstra	te knowledge of the fundamentals of middleware.
3a2: Describe th	ne concept behind web service protocols.
3a3: Explain the	concept of service oriented architecture.
3a4: Explain the	concept of enterprise service bus.
3a5: Understand	ding WSDL service interfaces in UDDI.
B: Intellectual	Skills
3b1: Design, de	velop, and deploy applications based on Service
Oriented Archite	ecture (SOA).
3b2: use Busine	ss Process Execution Language (BPEL).
3b3: using WSD	L to describe web services.
C: Profession	al and Practical Skills
3c1: setup, Invo	ke, and deploy web services using integrated
development en	vironment.
	nd use REST and SOAP messages for web
services commu	inication.
D: General and	d Transferable Skills
d1: Working with	n team.
d2: Presenting a	and defending ideas.
d3: Use of creat	ivity and innovation in problem solving.

d4: Develop communication skills and logical reasoning abilities.

Title	Т	Name
Session0: Syllabus and overview		Aldasht
Sesson1: Introduction to SOA		Aldasht
Session2: XML namespaces & XML schema	2	Aldasht
Session 3: Xpath & Xquery (Lab 1)	4	Romi
Session4: REST web services		M. Melhem
Session5: Lab2: Practice on REST		M. Melhem
Session 6: SOAP	2	Aldasht
Session 7: WSDL		Aldasht
Session8: Lab 3: WSDL practice		Aldasht
Session9: ESB		Aldasht
Session10: Lab4: Practice on ESB	4	Aldasht
Session11: integration patterns	4	M. Melhem
Session12: Lab5: integration patterns	4	M. Melhem
Session13: BPEL	3	Aldasht
Session14: Lab6: Practice on BPEL	3	Aldasht
Session15: UDDI	2	Aldasht

Title		Name	Run1	Run2
Session0: Syllabus and overview		Aldasht	Day1	Day1
Sesson1: Introduction to SOA		Aldasht	Day1	Day1
Session2: XML namespaces & XML schema		Aldasht	Day1	Day1
Session 3: Xpath & Xquery (Lab1)		Romi	Day1	Day1
Session4: REST web services		M. Melhem	Day2	Day2
Session5: Lab2: Practice on REST		M. Melhem	Day2	Day2
Session 6: SOAP		Aldasht	Day3	Day3
Session 7: WSDL		Aldasht	Day3	Day3
Session8: Lab 3: WSDL practice		Aldasht	Day3	Day3
Session9: ESB		Aldasht	Day4	Day4
Session10: Lab4: Practice on ESB		Aldasht	Day4	Day4
Session11: integration patterns		M. Melhem	Day5	Day5
Session12: Lab5: integration patterns		M. Melhem	Day5	Day5
Session13: BPEL		Aldasht	Day6	Day6
Session14: Lab6: Practice on BPEL		Aldasht	Day6	Day6
Session15: UDDI		Aldasht	Day6	Day6





Source, Olaf Zimmermann 2005.

Microsoft Visual Studio 2010