University of Nebraska Omaha

COURSE: ISQA 8380 Managing the Distributed Computing Environment - Online

SESSION: Fall 2012

INSTRUCTOR: Dr. George Royce

OFFICE: Room 367/ Room 260 on Fridays and Saturdays

CONNECT ROOM: Connect to me and ask questions via adobe connect meeting room

during my office hours: http://unoconnect.adobeconnect.com/georoyce

Please give your name as a guest when entering this online meeting.

OFFICE HOURS: Before or after class by appointment and regularly my hours are 5:30 to 6:30 PM on Wednesday (Room 367) and 5-6 PM on Friday afternoons (Room 260) and 10-12 AM Saturday mornings (room 260). Check my website http://roycesite.com/george for any changes in these office hours.

E-Mail george.royce@gmail.com

PHONE and IM: Home: 402-216-0414 leave a voice message if I am not there. Cell phone

is 402-871-9675 if urgent. You can also connect with Skype: gkroyce, and gtalk or my gmail. I also use Microsoft IM (george.royce@live.com). I prefer IM over email if you are comfortable with IM but email is acceptable. For

email, please use my gmail account.

Course Description:

This course is designed to give students grounding in the concepts, issues, and tools needed to manage distributed computing & Internet-based environments. It focuses on the technologies underlying distributed computing and Internet-based systems; the issues faced in developing, integrating, migrating to, and managing such systems; and the strategic relationship between business processes and the information systems architecture. The goal of the course is to equip students to make the architecture and infrastructure-related decisions needed for successful development and use of contemporary client/server and Internet-based systems.

Prerequisites:

ISQA 8310 - Business Data Communications or ISQA 3400 - Business Data Communications or equivalent, AND ISQA 3310 - Managing the Database Environment or ISQA 8050 - Data Organization and Storage or equivalent. Work experience in either of these areas may satisfy the requirement.

Objectives:

After taking this course you will, among other things, be able to

- Understand the strategic potential of distributed computing systems for business processes.
- Provide and understand a framework for classifying distributed computing architectures and distributed applications.
- Map out an information systems architecture and assess the fit between existing and needed architectures.
- Classify and evaluate the numerous flavors of middleware in order to make decisions about middleware acquisition.
- Understand the role of the transaction processing, object-oriented, and Internet-based technologies in distributed enterprise computing and make decisions about how and when to apply them.
- Understand the factors that contribute to the performance of client/server systems and incorporate this understanding in the design of client/server systems.

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- Understand the many issues, tradeoffs, and decision points in developing, integration, and managing distributed applications.
- Understand the impact of web services and their standards on distributed computing development and systems integration.

Text:

Enterprise Architectures and Integration with SOA – Concepts, Methodology and a Toolset. Amjad Umar, NGE Solutions, Inc. January, 2010. ISBN: 0-9727414-002. Available at the bookstore and on Amazon.

Grading:

Activity	Points	Date Due
Participation activities and integration problems based on the materials covered in the lectures and the book.	120	Graded weekly
Assignment 1 – Integration Case Study and Middleware Review	60	September 17 th
Assignment 2 – PHP web application that consumes a web service connects to a Microsoft SharePoint Server	160	Part 1 – October 12 th Part 2 – November 5 th
Assignment 3 – Cloud based process design using the BPMN standard	50	November 12 th
Assignment 4 – Cloud based workflow application integration	60	November 19 th
Assignment 5 – EFS Systems Integration Group Project	170	December 10 th
1st Exam	180	Oct 8 th to Oct 13 th
2 nd Exam	200	Dec 8 th to Dec 13th
Total	1,000	

Points Grade 97-100% A+ 93-96% Α 90-92% A-87-89% B+ 83-86% В 80-82% B-77-79% C+ 73-76% С 70-72% C-67-69% D+ 63-66% D 60-62% D-

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Final Grade: Your final grade in this course is based on the percentage of points that you receive out of the total maximum 1000 possible points for the course. The grade scale is shown in the above scale.

Best Practices for Online Class

Every online class is a little different just like the differences you experience in traditional classes. So even if you have taken other online classes, you need to know about my expectations and format.

Our course is accessible through the Blackboard (BB) site and all documents are posted to blackboard. You will submit assignments; check for announcements and post on discussions boards at Blackboard. You will also listen to the lectures via links posted on Blackboard. The course syllabus lays out the course schedule and what is due each week. It also provides readings that you need to accomplish each week.

Try to set aside a regular time for working on this class each week. Start by checking the course schedule to see what is required for the week. Read the required readings, listen to the lectures and then prepare the homework for each week. You have two kinds of assignments. These are weekly participation assignments and four assignments that will be described in the first two sessions of the class. The deadlines for all assignments is in the schedule. Refer to the schedule often! There is something due every week. Check out the "Submit" directions in the schedule.

All deliverables must be submitted on time. One key benefit of an online class is the flexibility. You can set your own schedule. You will know what's coming up and you can work anytime during the week. But you cannot miss the deadlines. Since there are no class sessions to attend, it is your responsibility to view the online lectures, read the textbook chapters, and do the weekly problems and assignments. Don't underestimate the work, and don't underestimate the importance of keeping yourself motivated and on schedule.

Course Policies and Reminders

Late Assignments: 10% deduction per day late. Assignments will not be accepted after a week late unless you have been given permission to do so by the instructor.

Cheating – If you copy another person's work in whole or in part, you will receive no credit for the assignment. If you allow your work to be copied by another person, you will receive no credit for the assignment. Two such incidents can result in a failing grade for the course.

Sources of Information: You must always give the source of your information. It may be information you find on the web, in a book or even in your work life. You must always cite the source!

Disabilities: ADA Notice – Accommodations are provided for students with verified disabilities. For more information, contact Services for Students with disABILITIES. In EAB 117 or 554-2872, TTY 554-3799.

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Course Schedule:

You are responsible for any schedule changes posted in Blackboard (BB) Announcements. All lectures are accessible via the Web at the URL posted in the BB site each week.

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Date	Topics and Lectures	Assignments Due
Week 1	Course Introduction	Due by end of first week of semester:
August	1.1 Introducing 8380 course, teacher and	Read: Course Syllabus (posted in Blackboard Course
20 st	students	Documents)
	1.2Introduction to Distributed Technology	Watch: Lectures 1,1, 1.2, 1.3, and 1.4
	and Systems and Business Value	Before August 27 th : Check out and register for Amazon
	1.3 Introduction to the Internet and PHP	Web Services for your PHP web services assignment.
	1.4 Sign Up for Amazon Web Services	Before Noon August 27 th: Be sure to sign up for a topic for
		Assignment 1 – Middleware Review and Case Study
		Submit: Participation Activity 1 See detailed requirements in
		BB Assignments. Due by Noon, August 27 th
Week 2	Overview of Distributed Systems	During this week:
August	2.1 PHP development and Overview of	Read: Umar pp 1-5 to 1-20, 6-9 to 6-47
27 th	Assignment 2	Watch: Lectures 2.1, 2.2, and 2.3
	2.2 Introduction to XML	Submit: Participation Activity 2. See detailed requirements in
	2.3 Distributed Systems Generations 1 to	BB Assignments. Due by Noon September 4 th
	5.	
Week 3	Middleware	During this week:
September	3.1 Introduction to Middleware	Read: Umar pp 7-15 to 7:46
4 th	3.2 Introduction to Web Services	Watch: Lectures 3.1, 3.2 and 3.3
	3.3 Distributed Web Security	Submit: Participation Activity 3. See detailed requirements in
	·	BB Assignments. Due by Noon September 10 th
Week 4	Web Services	During this week:
September	4.1 Web Services, PHP and the ESB	Read: Umar pp 11-2 to 11-25
10 st	4.2 Business to Business Systems	Watch: Lectures 4.1 and 4.2
	Integration	Submit: Assignment 1 – Middleware Review and Case
	Integration	Study. Due by Noon September 17 th
Week 5	Integration Business Process	Study. Due by Noon September 17 th During this week:
September		Study. Due by Noon September 17 th During this week: Read: Umar pp 2-23 to 2.52
	Business Process Management/Workflow and SOA 5.1 BPM/Workflow	Study. Due by Noon September 17 th During this week: Read: Umar pp 2-23 to 2.52 Watch: Lecture 5.1 and 5.2
September	Business Process Management/Workflow and SOA	Study. Due by Noon September 17 th During this week: Read: Umar pp 2-23 to 2.52 Watch: Lecture 5.1 and 5.2 Submit: Participation Activity 4. See detailed requirements in
September 17 th	Business Process Management/Workflow and SOA 5.1 BPM/Workflow 5.2 Call/Contact Center Integration	Study. Due by Noon September 17 th During this week: Read: Umar pp 2-23 to 2.52 Watch: Lecture 5.1 and 5.2 Submit: Participation Activity 4. See detailed requirements in BB Assignments. Due by Noon September 24 th
September 17 th Week 6	Business Process Management/Workflow and SOA 5.1 BPM/Workflow 5.2 Call/Contact Center Integration Portal Technology for Integration	Study. Due by Noon September 17 th During this week: Read: Umar pp 2-23 to 2.52 Watch: Lecture 5.1 and 5.2 Submit: Participation Activity 4. See detailed requirements in BB Assignments. Due by Noon September 24 th During this week:
September 17 th Week 6 September	Business Process Management/Workflow and SOA 5.1 BPM/Workflow 5.2 Call/Contact Center Integration	Study. Due by Noon September 17 th During this week: Read: Umar pp 2-23 to 2.52 Watch: Lecture 5.1 and 5.2 Submit: Participation Activity 4. See detailed requirements in BB Assignments. Due by Noon September 24 th During this week: Read: Umar pp 4-5 to 4-16
September 17 th Week 6	Business Process Management/Workflow and SOA 5.1 BPM/Workflow 5.2 Call/Contact Center Integration Portal Technology for Integration 6.1 Discuss using Portals to integrate systems	Study. Due by Noon September 17 th During this week: Read: Umar pp 2-23 to 2.52 Watch: Lecture 5.1 and 5.2 Submit: Participation Activity 4. See detailed requirements in BB Assignments. Due by Noon September 24 th During this week: Read: Umar pp 4-5 to 4-16 Watch: Lecture 6.1, 6.2 and 6.3
September 17 th Week 6 September	Business Process Management/Workflow and SOA 5.1 BPM/Workflow 5.2 Call/Contact Center Integration Portal Technology for Integration 6.1 Discuss using Portals to integrate systems 6.2 SharePoint and Portal and Web	Study. Due by Noon September 17 th During this week: Read: Umar pp 2-23 to 2.52 Watch: Lecture 5.1 and 5.2 Submit: Participation Activity 4. See detailed requirements in BB Assignments. Due by Noon September 24 th During this week: Read: Umar pp 4-5 to 4-16 Watch: Lecture 6.1, 6.2 and 6.3 Submit: Participation Activity 5. See detailed requirements in
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September 17 th Week 6 September 24 th	Business Process Management/Workflow and SOA 5.1 BPM/Workflow 5.2 Call/Contact Center Integration Portal Technology for Integration 6.1 Discuss using Portals to integrate systems 6.2 SharePoint and Portal and Web Services 6.3 Overview of Assignment 2 Part 2	Study. Due by Noon September 17 th During this week: Read: Umar pp 2-23 to 2.52 Watch: Lecture 5.1 and 5.2 Submit: Participation Activity 4. See detailed requirements in BB Assignments. Due by Noon September 24 th During this week: Read: Umar pp 4-5 to 4-16 Watch: Lecture 6.1, 6.2 and 6.3 Submit: Participation Activity 5. See detailed requirements in BB Assignments. Due by Noon October 1 st
September 17 th Week 6 September 24 th	Business Process Management/Workflow and SOA 5.1 BPM/Workflow 5.2 Call/Contact Center Integration Portal Technology for Integration 6.1 Discuss using Portals to integrate systems 6.2 SharePoint and Portal and Web Services 6.3 Overview of Assignment 2 Part 2 Service Oriented Architecture (SOA)	Study. Due by Noon September 17 th During this week: Read: Umar pp 2-23 to 2.52 Watch: Lecture 5.1 and 5.2 Submit: Participation Activity 4. See detailed requirements in BB Assignments. Due by Noon September 24 th During this week: Read: Umar pp 4-5 to 4-16 Watch: Lecture 6.1, 6.2 and 6.3 Submit: Participation Activity 5. See detailed requirements in BB Assignments. Due by Noon October 1 st During this week:
September 17 th Week 6 September 24 th Week 7 October	Business Process Management/Workflow and SOA 5.1 BPM/Workflow 5.2 Call/Contact Center Integration Portal Technology for Integration 6.1 Discuss using Portals to integrate systems 6.2 SharePoint and Portal and Web Services 6.3 Overview of Assignment 2 Part 2 Service Oriented Architecture (SOA) 7.1 Service Oriented Architecture and	Study. Due by Noon September 17 th During this week: Read: Umar pp 2-23 to 2.52 Watch: Lecture 5.1 and 5.2 Submit: Participation Activity 4. See detailed requirements in BB Assignments. Due by Noon September 24 th During this week: Read: Umar pp 4-5 to 4-16 Watch: Lecture 6.1, 6.2 and 6.3 Submit: Participation Activity 5. See detailed requirements in BB Assignments. Due by Noon October 1 st During this week: Read: Umar pp 9-2 to 9-38
September 17 th Week 6 September 24 th	Business Process Management/Workflow and SOA 5.1 BPM/Workflow 5.2 Call/Contact Center Integration Portal Technology for Integration 6.1 Discuss using Portals to integrate systems 6.2 SharePoint and Portal and Web Services 6.3 Overview of Assignment 2 Part 2 Service Oriented Architecture (SOA) 7.1 Service Oriented Architecture and BPM	Study. Due by Noon September 17 th During this week: Read: Umar pp 2-23 to 2.52 Watch: Lecture 5.1 and 5.2 Submit: Participation Activity 4. See detailed requirements in BB Assignments. Due by Noon September 24 th During this week: Read: Umar pp 4-5 to 4-16 Watch: Lecture 6.1, 6.2 and 6.3 Submit: Participation Activity 5. See detailed requirements in BB Assignments. Due by Noon October 1 st During this week: Read: Umar pp 9-2 to 9-38 Watch: Lecture 7.1 and 7.2
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September 17 th Week 6 September 24 th Week 7 October	Business Process Management/Workflow and SOA 5.1 BPM/Workflow 5.2 Call/Contact Center Integration Portal Technology for Integration 6.1 Discuss using Portals to integrate systems 6.2 SharePoint and Portal and Web Services 6.3 Overview of Assignment 2 Part 2 Service Oriented Architecture (SOA) 7.1 Service Oriented Architecture and BPM	Study. Due by Noon September 17 th During this week: Read: Umar pp 2-23 to 2.52 Watch: Lecture 5.1 and 5.2 Submit: Participation Activity 4. See detailed requirements in BB Assignments. Due by Noon September 24 th During this week: Read: Umar pp 4-5 to 4-16 Watch: Lecture 6.1, 6.2 and 6.3 Submit: Participation Activity 5. See detailed requirements in BB Assignments. Due by Noon October 1 st During this week: Read: Umar pp 9-2 to 9-38 Watch: Lecture 7.1 and 7.2
Week 6 September 24 th Week 7 October 1 st	Business Process Management/Workflow and SOA 5.1 BPM/Workflow 5.2 Call/Contact Center Integration Portal Technology for Integration 6.1 Discuss using Portals to integrate systems 6.2 SharePoint and Portal and Web Services 6.3 Overview of Assignment 2 Part 2 Service Oriented Architecture (SOA) 7.1 Service Oriented Architecture and BPM 7.2 Externalizing Business Rules in BR Management Systems	Study. Due by Noon September 17 th During this week: Read: Umar pp 2-23 to 2.52 Watch: Lecture 5.1 and 5.2 Submit: Participation Activity 4. See detailed requirements in BB Assignments. Due by Noon September 24 th During this week: Read: Umar pp 4-5 to 4-16 Watch: Lecture 6.1, 6.2 and 6.3 Submit: Participation Activity 5. See detailed requirements in BB Assignments. Due by Noon October 1 st During this week: Read: Umar pp 9-2 to 9-38 Watch: Lecture 7.1 and 7.2 Submit: Participation Activity 6. See detailed requirements in BB Assignments. Due by Noon October 8 th
September 17 th Week 6 September 24 th Week 7 October 1 st Week 8	Business Process Management/Workflow and SOA 5.1 BPM/Workflow 5.2 Call/Contact Center Integration Portal Technology for Integration 6.1 Discuss using Portals to integrate systems 6.2 SharePoint and Portal and Web Services 6.3 Overview of Assignment 2 Part 2 Service Oriented Architecture (SOA) 7.1 Service Oriented Architecture and BPM 7.2 Externalizing Business Rules in BR Management Systems Enterprise Reuse	Study. Due by Noon September 17 th During this week: Read: Umar pp 2-23 to 2.52 Watch: Lecture 5.1 and 5.2 Submit: Participation Activity 4. See detailed requirements in BB Assignments. Due by Noon September 24 th During this week: Read: Umar pp 4-5 to 4-16 Watch: Lecture 6.1, 6.2 and 6.3 Submit: Participation Activity 5. See detailed requirements in BB Assignments. Due by Noon October 1 st During this week: Read: Umar pp 9-2 to 9-38 Watch: Lecture 7.1 and 7.2 Submit: Participation Activity 6. See detailed requirements in BB Assignments. Due by Noon October 8 th During this week:
September 17 th Week 6 September 24 th Week 7 October 1 st Week 8 October	Business Process Management/Workflow and SOA 5.1 BPM/Workflow 5.2 Call/Contact Center Integration Portal Technology for Integration 6.1 Discuss using Portals to integrate systems 6.2 SharePoint and Portal and Web Services 6.3 Overview of Assignment 2 Part 2 Service Oriented Architecture (SOA) 7.1 Service Oriented Architecture and BPM 7.2 Externalizing Business Rules in BR Management Systems Enterprise Reuse 8.1 Objects, Components and Services in	Study. Due by Noon September 17 th During this week: Read: Umar pp 2-23 to 2.52 Watch: Lecture 5.1 and 5.2 Submit: Participation Activity 4. See detailed requirements in BB Assignments. Due by Noon September 24 th During this week: Read: Umar pp 4-5 to 4-16 Watch: Lecture 6.1, 6.2 and 6.3 Submit: Participation Activity 5. See detailed requirements in BB Assignments. Due by Noon October 1 st During this week: Read: Umar pp 9-2 to 9-38 Watch: Lecture 7.1 and 7.2 Submit: Participation Activity 6. See detailed requirements in BB Assignments. Due by Noon October 8 th During this week: Read: Umar pp 9-21 to 9-26
September 17 th Week 6 September 24 th Week 7 October 1 st Week 8	Business Process Management/Workflow and SOA 5.1 BPM/Workflow 5.2 Call/Contact Center Integration Portal Technology for Integration 6.1 Discuss using Portals to integrate systems 6.2 SharePoint and Portal and Web Services 6.3 Overview of Assignment 2 Part 2 Service Oriented Architecture (SOA) 7.1 Service Oriented Architecture and BPM 7.2 Externalizing Business Rules in BR Management Systems Enterprise Reuse 8.1 Objects, Components and Services in Distributed Systems	Study. Due by Noon September 17 th During this week: Read: Umar pp 2-23 to 2.52 Watch: Lecture 5.1 and 5.2 Submit: Participation Activity 4. See detailed requirements in BB Assignments. Due by Noon September 24 th During this week: Read: Umar pp 4-5 to 4-16 Watch: Lecture 6.1, 6.2 and 6.3 Submit: Participation Activity 5. See detailed requirements in BB Assignments. Due by Noon October 1 st During this week: Read: Umar pp 9-2 to 9-38 Watch: Lecture 7.1 and 7.2 Submit: Participation Activity 6. See detailed requirements in BB Assignments. Due by Noon October 8 th During this week: Read: Umar pp 9-21 to 9-26 Watch: Lecture 8.1, 8.2 and 8.3
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September 17 th Week 6 September 24 th Week 7 October 1 st Week 8 October	Business Process Management/Workflow and SOA 5.1 BPM/Workflow 5.2 Call/Contact Center Integration 6.1 Discuss using Portals to integrate systems 6.2 SharePoint and Portal and Web Services 6.3 Overview of Assignment 2 Part 2 Service Oriented Architecture (SOA) 7.1 Service Oriented Architecture and BPM 7.2 Externalizing Business Rules in BR Management Systems 8.1 Objects, Components and Services in Distributed Systems 8.2 Enterprise Reuse Example 8.3 Overview of Assignment 5	Study. Due by Noon September 17 th During this week: Read: Umar pp 2-23 to 2.52 Watch: Lecture 5.1 and 5.2 Submit: Participation Activity 4. See detailed requirements in BB Assignments. Due by Noon September 24 th During this week: Read: Umar pp 4-5 to 4-16 Watch: Lecture 6.1, 6.2 and 6.3 Submit: Participation Activity 5. See detailed requirements in BB Assignments. Due by Noon October 1 st During this week: Read: Umar pp 9-2 to 9-38 Watch: Lecture 7.1 and 7.2 Submit: Participation Activity 6. See detailed requirements in BB Assignments. Due by Noon October 8 th During this week: Read: Umar pp 9-21 to 9-26 Watch: Lecture 8.1, 8.2 and 8.3 Submit: Assignment 2 – Part 1 PHP Web Application that consumes REST and SOAP based web services . Due by 5
September 17 th Week 6 September 24 th Week 7 October 1 st Week 8 October	Business Process Management/Workflow and SOA 5.1 BPM/Workflow 5.2 Call/Contact Center Integration 6.1 Discuss using Portals to integrate systems 6.2 SharePoint and Portal and Web Services 6.3 Overview of Assignment 2 Part 2 Service Oriented Architecture (SOA) 7.1 Service Oriented Architecture and BPM 7.2 Externalizing Business Rules in BR Management Systems 8.1 Objects, Components and Services in Distributed Systems 8.2 Enterprise Reuse Example 8.3 Overview of Assignment 5 First Test this week – Sign up for a	Study. Due by Noon September 17 th During this week: Read: Umar pp 2-23 to 2.52 Watch: Lecture 5.1 and 5.2 Submit: Participation Activity 4. See detailed requirements in BB Assignments. Due by Noon September 24 th During this week: Read: Umar pp 4-5 to 4-16 Watch: Lecture 6.1, 6.2 and 6.3 Submit: Participation Activity 5. See detailed requirements in BB Assignments. Due by Noon October 1 st During this week: Read: Umar pp 9-2 to 9-38 Watch: Lecture 7.1 and 7.2 Submit: Participation Activity 6. See detailed requirements in BB Assignments. Due by Noon October 8 th During this week: Read: Umar pp 9-21 to 9-26 Watch: Lecture 8.1, 8.2 and 8.3 Submit: Assignment 2 – Part 1 PHP Web Application that
September 17 th Week 6 September 24 th Week 7 October 1 st Week 8 October	Business Process Management/Workflow and SOA 5.1 BPM/Workflow 5.2 Call/Contact Center Integration 6.1 Discuss using Portals to integrate systems 6.2 SharePoint and Portal and Web Services 6.3 Overview of Assignment 2 Part 2 Service Oriented Architecture (SOA) 7.1 Service Oriented Architecture and BPM 7.2 Externalizing Business Rules in BR Management Systems 8.1 Objects, Components and Services in Distributed Systems 8.2 Enterprise Reuse Example 8.3 Overview of Assignment 5	During this week: Read: Umar pp 2-23 to 2.52 Watch: Lecture 5.1 and 5.2 Submit: Participation Activity 4. See detailed requirements in BB Assignments. Due by Noon September 24 th During this week: Read: Umar pp 4-5 to 4-16 Watch: Lecture 6.1, 6.2 and 6.3 Submit: Participation Activity 5. See detailed requirements in BB Assignments. Due by Noon October 1 st During this week: Read: Umar pp 9-2 to 9-38 Watch: Lecture 7.1 and 7.2 Submit: Participation Activity 6. See detailed requirements in BB Assignments. Due by Noon October 8 th During this week: Read: Umar pp 9-21 to 9-26 Watch: Lecture 8.1, 8.2 and 8.3 Submit: Assignment 2 - Part 1 PHP Web Application that consumes REST and SOAP based web services . Due by 5

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Date	Topics and Lectures	Assignments Due
Week 9 October 22 nd	Data Integration 9.1Distributed Data Integration 9.2 Operational Data Stores and Data Warehouses	During this week: Read: Umar pp 12-25 to 12-38 Watch: Lecture 9.1 and 9.2 Submit: Participation Activity 7. See detailed requirements in BB Assignments. Due by Noon October 29 th
Week 10 October 29 th	Agile/SCROUM in Systems Integration Projects 10.1 Agile/Scrum 10.2 Human Change Management	During this week: Read: None Watch: Lecture 10.1 and 10.2 Submit: Assignment 2 – Part 2 Create a web service on your PHP Server and consume it on a Microsoft SharePoint Server. Due by Noon November 3 rd at 5 PM.
Week 11 November 5 th	Introduction to Could Computing 11.1 Introduction to Cloud Computing 11.2 Introduction to Salesforce and Force.com and Assignment 3	During this week: Read: None Watch: Lecture 11.1 and 11.2 Submit: Assignment 3 Cloud based process design using the BPMN standard Due by Noon November 12 th
Week 12 November 12 th	Software as a Service 12.1 Integrating Software as a Service Systems with Corporate, On Premise Systems.	During this week: Read: None Watch: Lecture 12.1 Submit: Assignment 4 – Cloud based workflow application Due by Noon November 19 th Assignment 5 Milestone 1 Due by Noon November 19 th
Week 13 November 19 th	Mobile Applications 13.1 Mobile Application Development – Return to Client Server!	During this week: Read: Umar pp 13-1 to 13-22 and 13-38 to 13-45 Watch: Lecture 13.1 Submit: Assignment 5 Milestone 2 Due by Noon November 26 th
Week 14 November 26 th	Distributed Transaction Processing 14.1 Distributed Transaction Processing	During this week: Read: Umar pp 5-37 to 5-48 Watch: Lecture 14.1 Submit: Assignment 5 Milestone 3 Due by Noon December 3 rd
Week 15 December 3 rd	Performance in Distributed Systems 15.1 Performance Challenges in Distributed Systems 15.2 Discuss Final Exam	During this week: Read: None Watch: Lecture 15.1 and 15.2 Submit: Assignment 5 Milestone Systems Integration Project Final Deliverable Due by Noon December 10 th
Exam Week December 10 th	Final Exam this week. Sign up for a time!	Must complete final exam by December 15th

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