

Business Systems Development Requirements Driven Applications



Business systems development takes a perceived business need and transforms it to a beneficial solution for the enterprise

At the core, the key to successful business system development today is properly stating the requirements for the solution. Pulling both business and system requirements together in one place and then partitioning for the different emerging needs and approaches is the way to achieve success.

Since there are several ways to provide a solution to a set of business needs, depending on a range of new approaches, methods and techniques, this can be a challenge! The mapping of requirements today into a technical solution is one of the more difficult tasks facing business systems development

The focus in this course is on business analysis, developing the business requirements, the designing the business system and connecting to potential solution approaches.

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Business System Development – Requirements Course Outline

Module 1: Overview – Business Systems Development Today

- Introduction and course agenda
- The business systems concept today
- Types of business systems
- The development life cycle
- Different approaches to development
- The general development methodology
- The changing user landscape

Exercise – The Business Systems Development Profile

Module 2: Business Systems –Processes and Workflows

- Types of flows in the enterprise
- Process requirements
- Processes versus workflows
- Workflows and systems
- Workflows and technology enablement
- Assessing enterprise impact by context
- Issues of change management in the workplace

Exercise – Preparing a Workflow

Module 3: Developing Business Requirements

- The requirements idea
- The model approach to requirements
- Requirements in flux
- A requirements methodology
- Partitioning the source material by needs
- The solution set concept

Demonstration – A requirements gathering and analysis tool

Module 4: Documenting Requirements

- Types of Requirements
- The requirements packet
- Identifying the ‘As Is’ state
- Articulating the ‘To Be’ state
- Requirements review and impact assessment
- Requirements mapping to development

Exercise – The Requirements Packet

Module 5: Components/Enablers of a Business System

- Flows
- Inputs and outputs
- The transformation
- Controls and rules
- Technology and Skills
- Where the system is used

Demonstration – A Process Modeling Product

Module 6: The Basic Solution Sets Today

- Traditional systems
- E-Business solutions
- Legacy integration
- Business intelligence
- Knowledge and content management
- Outsourcing and packages

Exercise – Selecting the Approach

Module 7: E-Business Systems Requirements

- Identifying the need
 - Developing requirements
 - Defining and grouping services
 - The service orientation concept
 - Mapping business to technical services

Exercise – Object Systems Requirements

Module 8: Legacy Systems Integration Requirements

- Designing the new process
- Identifying process components
- Legacy systems integration concepts
- Requirements for legacy systems integration
- The Service Oriented Architecture idea
- The integration project

Exercise – Legacy Requirements

Module 9: Business Systems for Performance – Business Intelligence

- Management disciplines and measures
- Measures driven requirements for BI
- Analytic workflows
- Taxonomies a first view
- Data extraction, integration and delivery - hubs
- Data warehouses and data marts
- Presentation approaches

Demonstration – A BI Tool Example

Module 10: Package Requirements

- Articulating the need
- Determining the type of package
- Features and functions
- Matching requirements with features and functions
- Mapping requirements to packages
- The reference model idea

Exercise – Selecting a Package

Module 11: Knowledge and Content Management Business Systems

- What are content and knowledge requirements
- The taxonomy concept
- Knowledge vs content management
- Sourcing content
- Identifying and positioning knowledge
- The ‘knowledge system’

Exercise – Identifying Knowledge

Module 12: Managing Business Systems Development

- The project plan
- Resources and Approach
- Schedule and Checkpoints
- Evaluation

Exercise – The Project Plan

Module 13: Architecture Driven Development

- The trend today - architectures
- Models and architectures
- Information lifecycle management
- Model management
- Business models vs requirements models vs design models
- Model repositories

Exercise – Working with Models

Module 14: Tools for Business System Development

- Tool selection and selection checklists
- Model repositories
- Analysis tools and Design tools
- Development environments
- Other support tools

Exercise – A Tool Selection Checklist

Module 15: Issues and Trends in Business System Development

- The Portal Idea
- Connecting the Methods Together
- The disappearing developer
- The computing grid – assembling applications
- Managing change

Exercise – Final Question and Answer Period