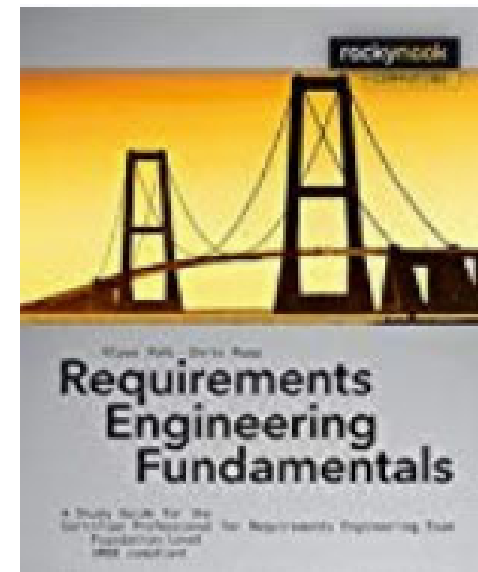
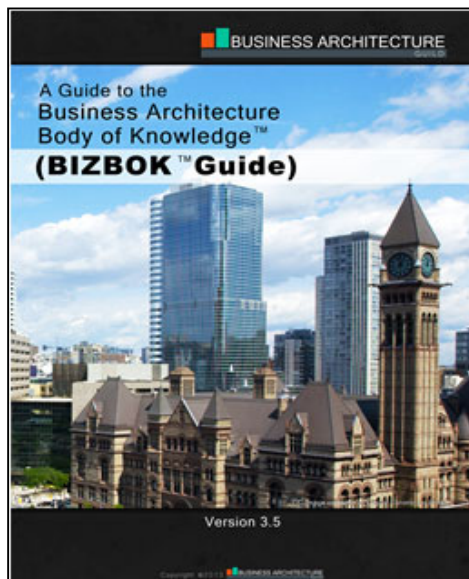




for Requirements Management



Enterprise Architect for Requirements Management



for Requirements Management



Background

- Who is involved with Requirements Management?
- Key Requirements across the Landscape
- Traceability and Impact of change
- Reuse Requirements
- Enterprise Architect and Documentation
- Enterprise Architect Pricing
- Enterprise Architect Training
- About INTEGRATE IT



Enterprise Architect for Requirements Management

Requirements in Context

Presenter: Ramsay Millar, INTEGRATE IT



We are a software company disguised as a Bank” - CEO of Citibank

Excerpt from Winning with Software – Watt Humphries

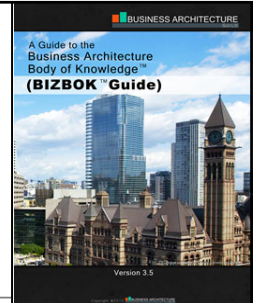
Every organization today is a software company, and the role of the business analyst has never been more important. All stakeholders are demanding better software, delivered faster, and with low tolerance for business outages and security breaches.

Software Requirements continue to grow in importance and skilled business analysts are in demand as organizations are improving their capabilities to align business strategy with successful software development outcomes.



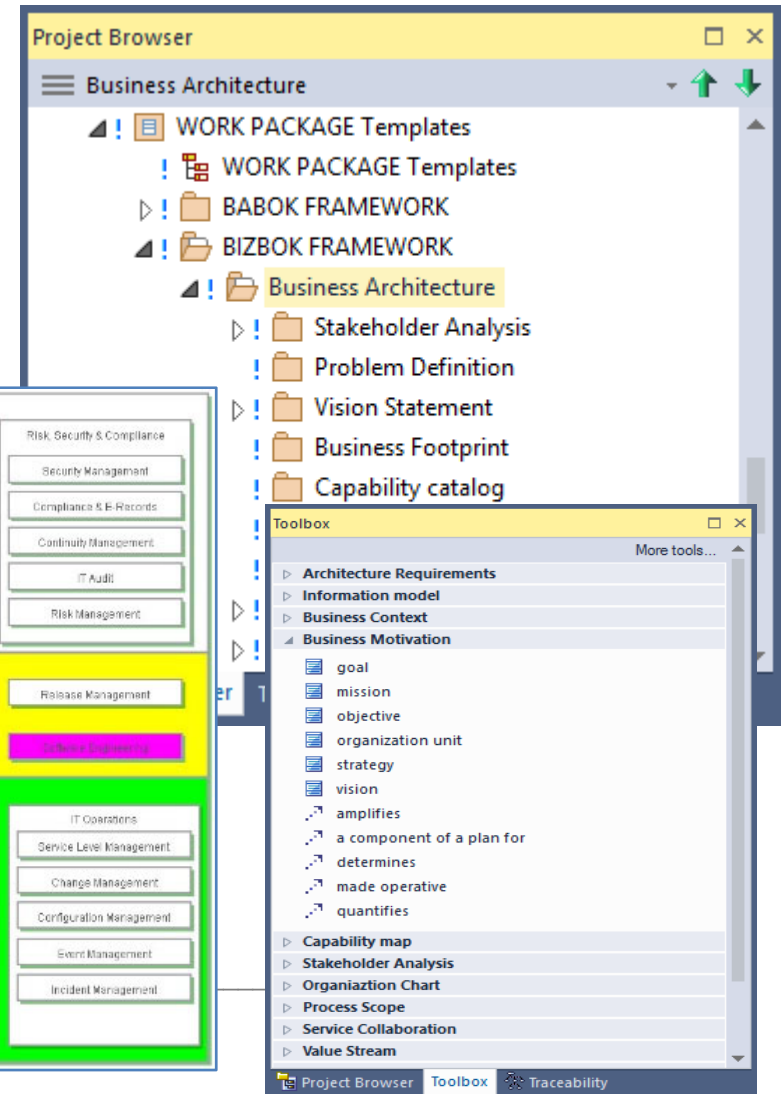
Enterprise Architect for Requirements Management

BIZBOK® Toolkits, Templates, and Stencils for Business Architects

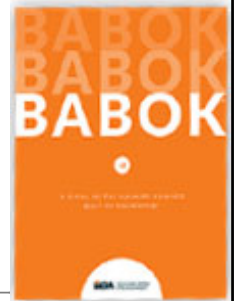


- Help Screens based upon BIZBOK®
- Work Packages generate the Business Architecture Definition (BRD)
- BIZBOK® Diagram Toolbox stencils
- Pre-built Catalogs, Matrices, Diagram Patterns
- Requirements Management Repository
- Document Templates to generate MS Word, MS Excel and MS Power Point

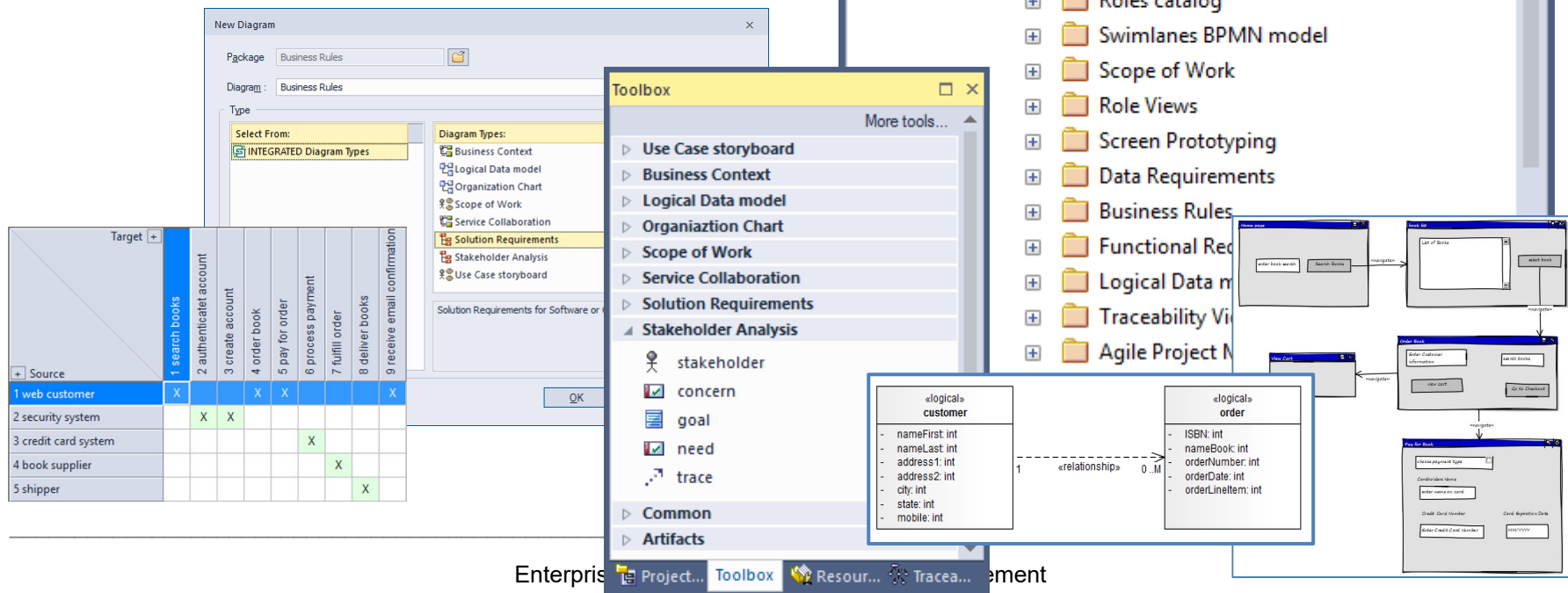
Target +	1 CEO - Bob Wall Street	2 CFO - Frank Money	3 CIO - Clair Smart	4 SME Order Processing - Susie Fast
+ Source				
1 Book Advertising				
2 Book Procurement	R	C		I
3 Booking Shipping				I
4 Customer Management				I
5 Financial Management	R	A	I	
6 Information Security Management	R	I	A	I
7 Order Management		S		S
8 Website Management		I	A	I



BABOK® Framework and Templates for Business Analyst



- Help Screens based upon BABOK
- Work Packages to Generate the Software Requirements Specification (SRS)
- Diagram Standards and Toolbox stencils
- Project standard templates to integrate and generate Word, MS Excel, MS Powerpoint documents



IIBA and Sparx Systems announce a Strategic Alliance



The *BABOK® Guide* describes Business Analysis areas of knowledge, their associated activities, and the tasks and skills necessary to be effective in their execution

The International Institute of Business Analysts carefully selected Sparx Enterprise Architect as their only tool in its new strategic alliance because Sparx is (in IIBA's words) a "leader [in its field]... offering the BA community increased value and support, helping achieve greater business outcomes."

June 2016



Source: Business Analyst Body of Knowledge (BABOK 2.0)

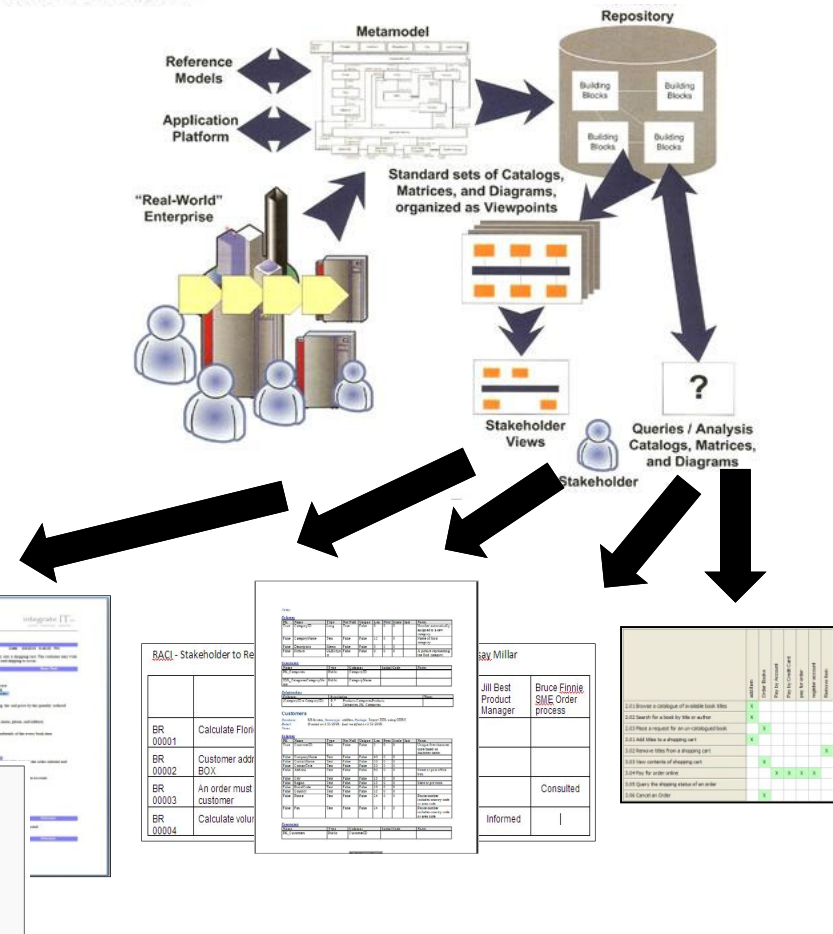


Enterprise Architect for Requirements Management

BABOK® 4.3 - “These requirements may be stored in a repository”

Repository Benefits are:

- Collaborate with many stakeholders
- Store knowledge and re-useable facts
- Manage business and technical complexity
- Trace impacts across many projects
- Re-use promotes continual quality
- Re-use avoids rework
- Re-use saves time





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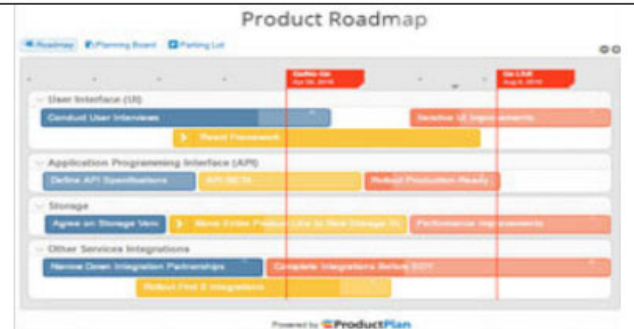
Enterprise Architect for Requirements Management



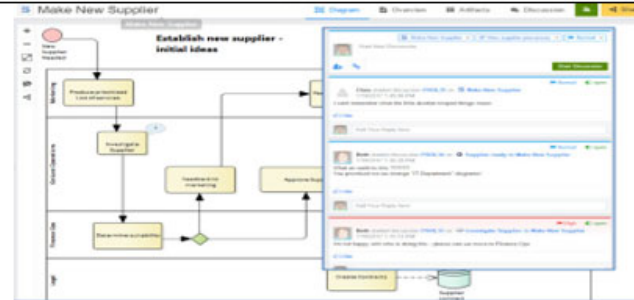
Business Leader – My role is to continually improve and operate our capabilities. I sponsor, guide, and own the business architecture solution.



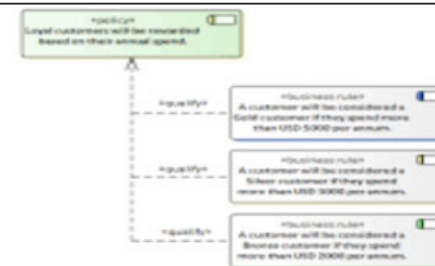
How do I Collaborate, Track, Review, and Approve our Product Roadmaps?



How can I apply my business expertise to Review, Comment, and Edit KPI's for our business process improvement models?



How can I verify that business rules are in line with Regulatory compliance and policy and then reused across digital solutions?



Enterprise Architect for Requirements Management

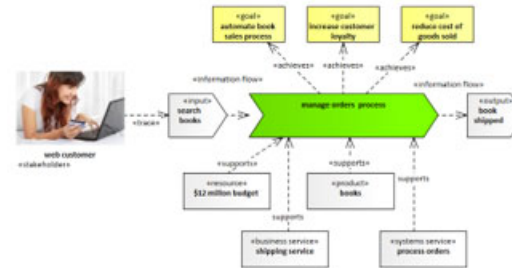


Business Architect – My role is develop and frame innovative business models to ensure business agility across the digital enterprise.

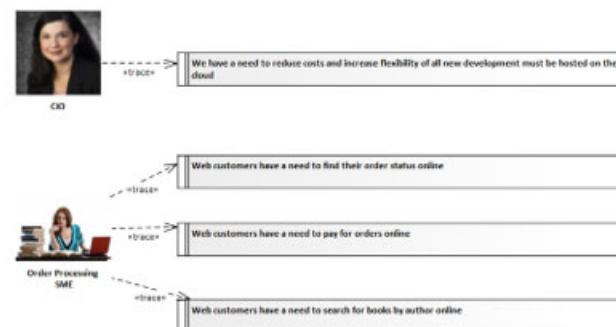
How can I share Capability Heat maps with stakeholders across the business landscape?



How can I Collaborate with Process owners to ensure business architecture process transformations are kept in scope?



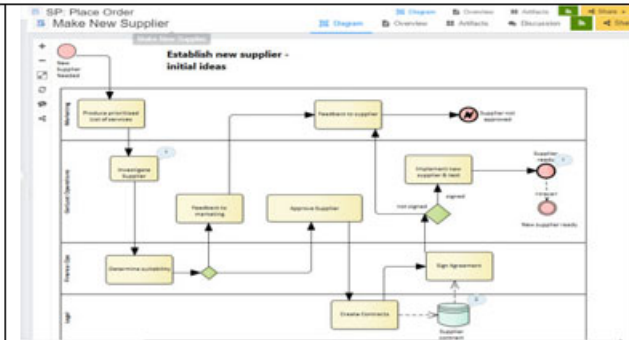
How may I share stakeholder needs and concerns with all architects across the Enterprise Architecture Value Chain?





Business Process Manager – My role is to analyze and improve business processes to ensure better business solutions.

How can I share my BPMN models with business subject matter experts who do not use modeling tools?



How can my clients Collaborate, Review, Comment, and Approve my business process modeling improvements?



How can I verify the Decision Modeling using business rules to ensure my models deliver business agility?

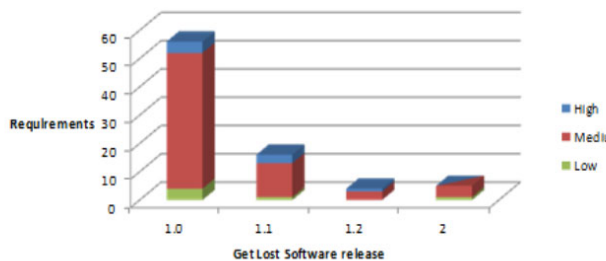




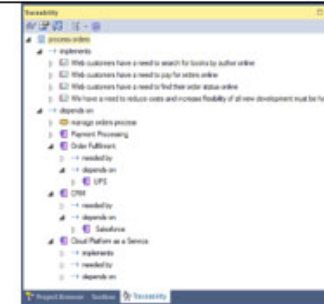
Requirements Manager - My role is ensure business needs, functional requirements, and software requirements are traceable and re-used according to business capabilities.

		Martin Jones - CEO	Clare Smart - COO	Frank Bey - CTO	Jilly Smart - Product Manager	Mark Ellsworth CMO
Providers	HL_REQ_1	Informed			Responsible	Account
Options	HL_REQ_2	Informed			Responsible	
KPIs	HL_REQ_5		Consulted			
Payments	HL_REQ_3					
Quotes	HL_REQ_4	Informed			Responsible	Account

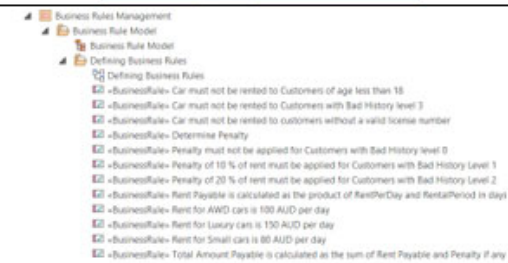
Total requirements, by release and priority



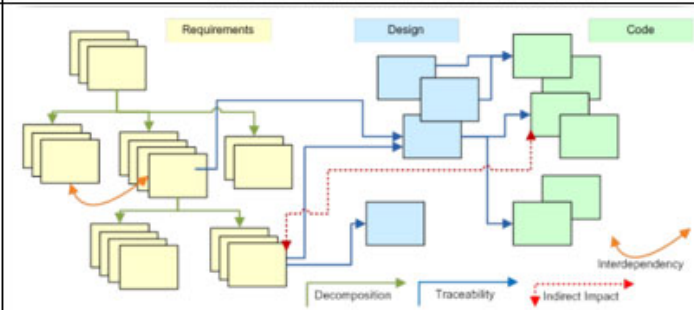
How can I share the impacts of regulatory requirement changes across all applications, information, and projects?



How can I manage business rules catalogs and policy changes with all stakeholders across the enterprise?



How can I share requirements reuse across many projects?





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Enterprise Architect for Requirements Management

Key Requirements across the Landscape

- Business Rules – the King of all Requirements

BR A new customer must not place an order that exceeds \$1000 USD

- Data Requirements – ensure integrity everywhere

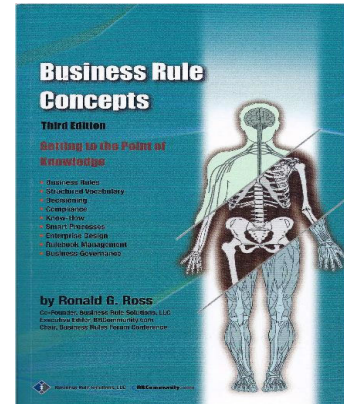
DR International Standard Book Number (ISBN) for Book data Classification example 978-3-16-148410-0

- Functional Requirements – ensure business outcomes

FR A web customer must have the ability to purchase a book listed in the book catalog.

- QoS Requirement (alias NFR) - ensure IT Service Quality

QoS A Level C security incident Time lag between detection, reporting and acting upon security incidents must be LT 20 minutes



Identify stakeholders, concerns and needs

- Trace Business Rules and Requirements to Business Concerns and Needs

BR	A new customer must not place an order that exceeds \$1000 USD
DR	International Standard Book Number(ISBN) for Book data Classification example 978-3-16-148410-0
FR	A web customer must have the ability to purchase a book listed in the book catalog.



CEO

We have a concern that many staff nearing retirement are leaving with business knowledge



CFO

We have a concern there is no clear idea of who should drive the transformation, business or IT



CIO

We have a concern there is a plan to move from legacy systems without learning contained business rules

We have a concern we have no single source of data we use 20 fragmented databases

Business Capability Requirements

- Trace Business Rules and Requirements to Business Capabilities

BR	A new customer must not place an order that exceeds \$1000 USD
DR	International Standard Book Number(ISBN) for Book data Classification example 978-3-16-148410-0
FR	A web customer must have the ability to purchase a book listed in the book catalog.

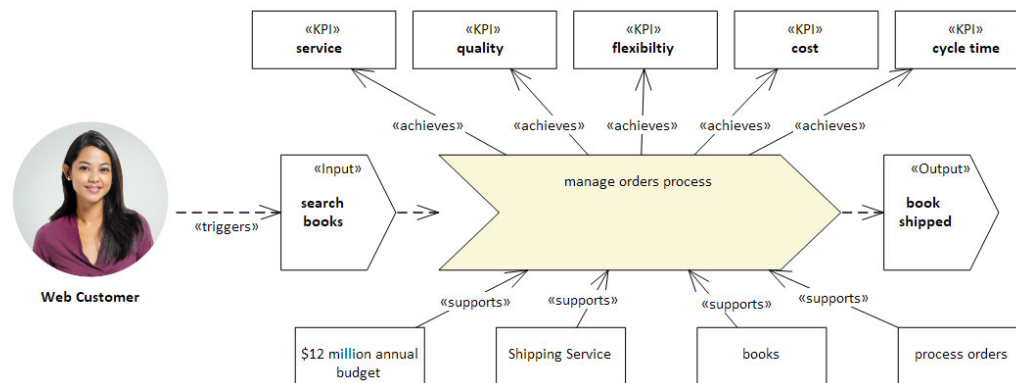
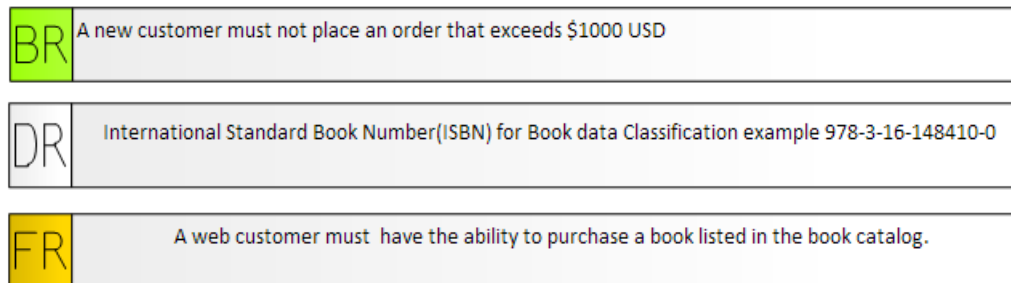
Legend

white	not evaluated
green	good
yellow	problematic
red	poor
purple	missing



Process Scope Requirements

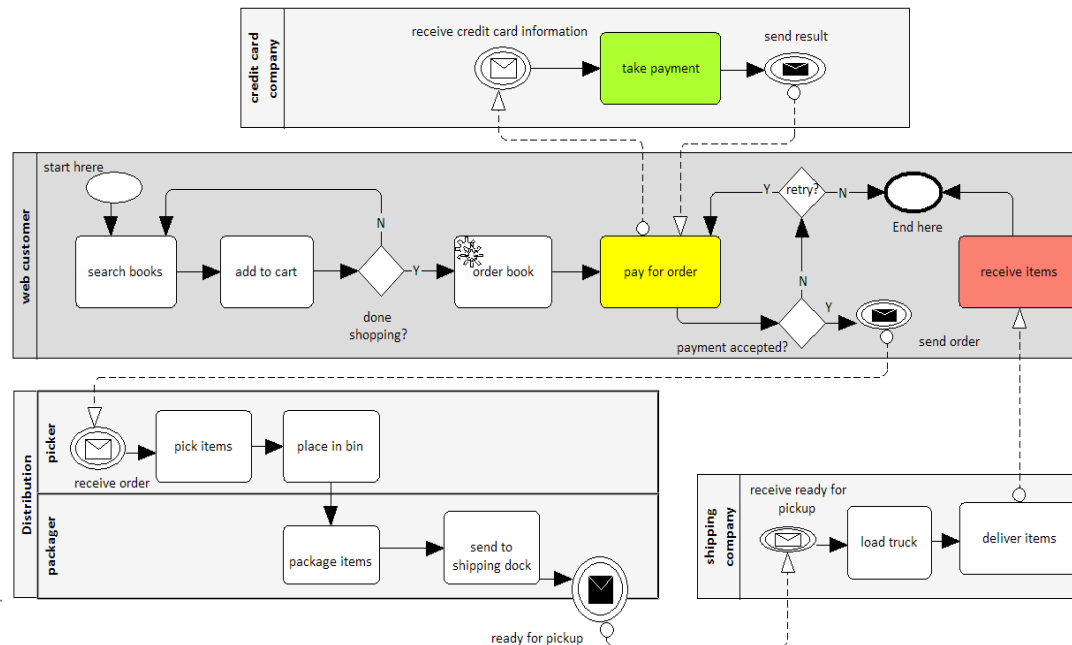
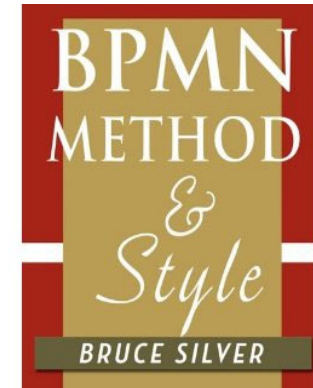
- Trace Business Rules and Requirements to Process Value Stream



Process Requirements

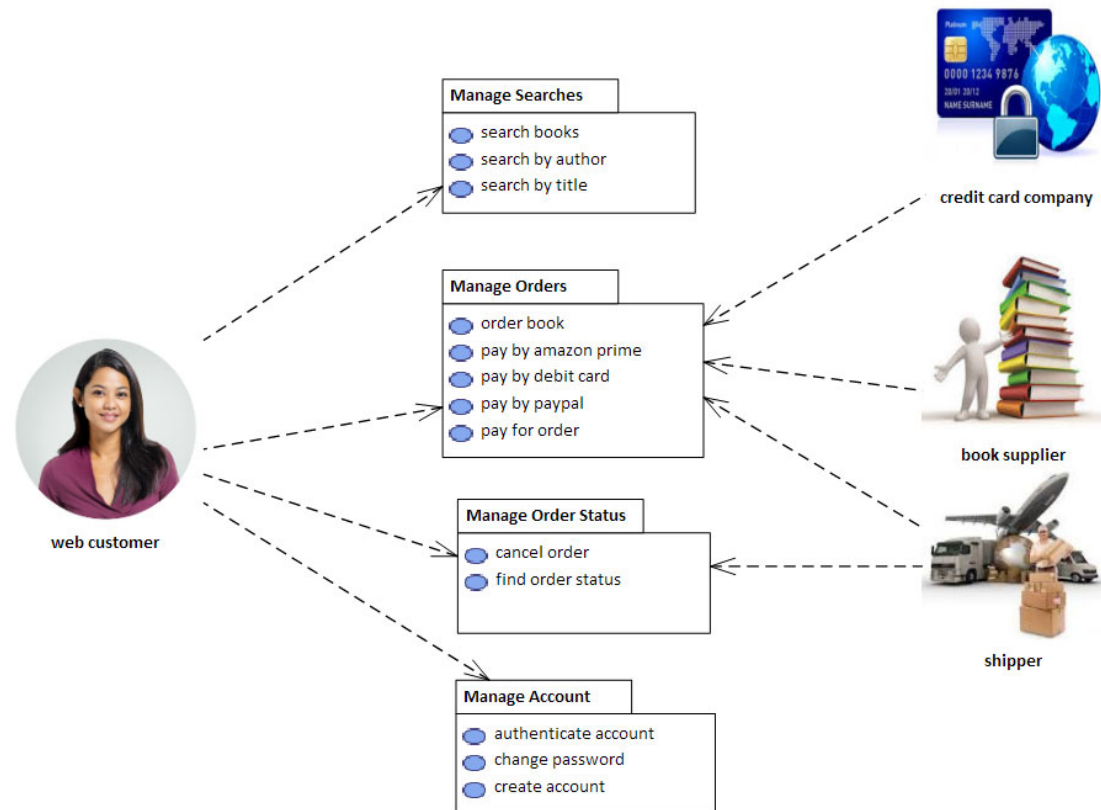
- Trace Business Rules to Business Process models

BR	A new customer must not place an order that exceeds \$1000 USD
DR	International Standard Book Number(ISBN) for Book data Classification example 978-3-16-148410-0
FR	A web customer must have the ability to purchase a book listed in the book catalog.



Sprint Planning Packaged by Functionality

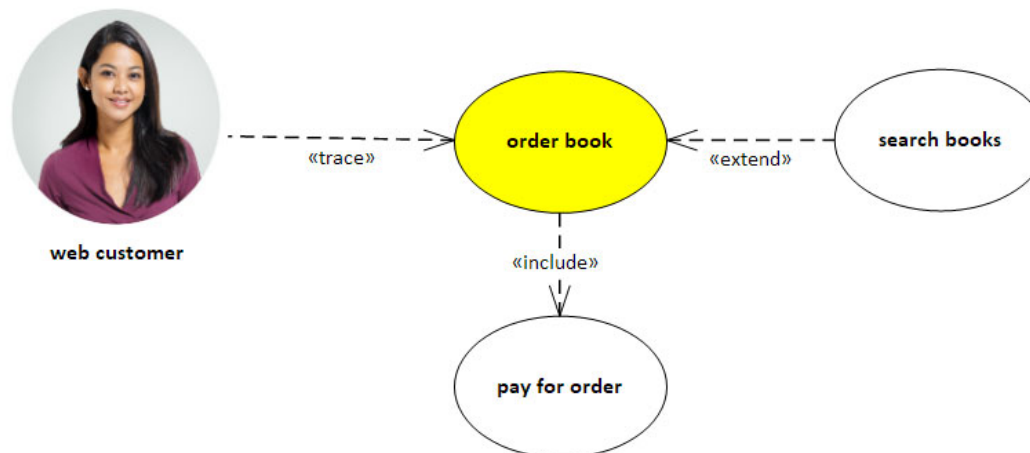
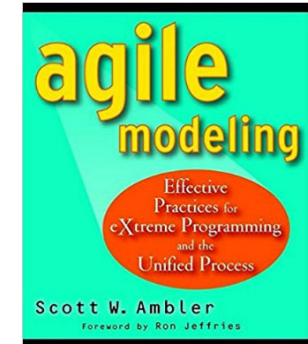
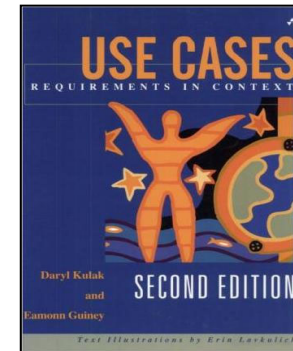
- Provides scope of work
- Roles are nouns (Web Customer)
- Name of the story is a verb that describes the goal of the role (Web Customer)
- Provides Planning, Work Breakdown Structure, and Worker assignments



Use Case Storyboard Requirements

- Trace Business Rules and Requirements to stories

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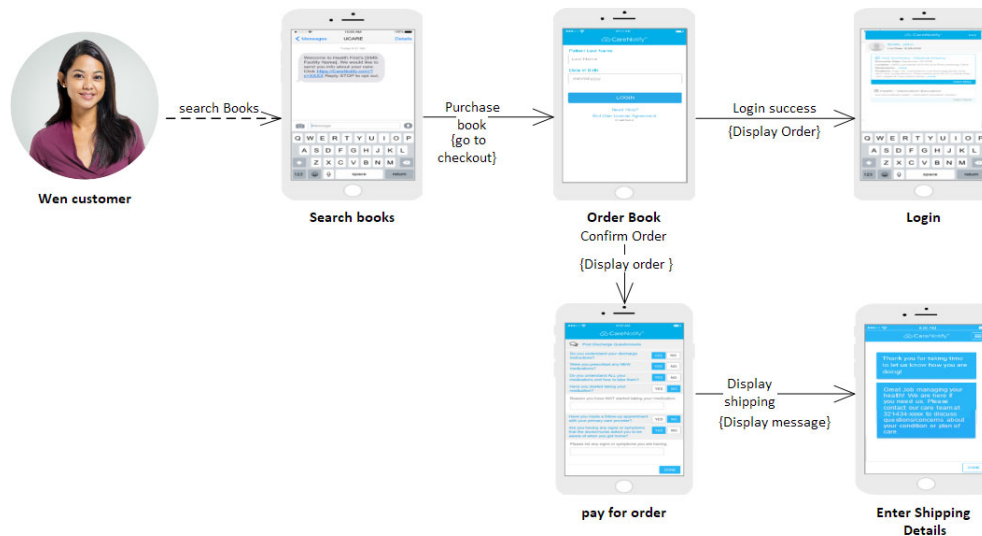
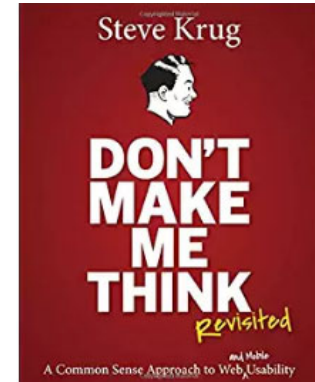


Order Book	Author: my name goes here	Date: 9/24/2010 11:00:00 AM
The customer may order a book by selecting a book ISBN and quantity into a shopping cart. The customer may wish to add, remove or change the order prior to checking out for payment and shipping to arrive.		
Use Cases: Order Book	Save this	
<ol style="list-style-type: none"> 1. The use case begins when a customer chooses to place an order. 2. The system displays a form for placing an order. 3. The customer searches for books using the (Browse Books) use case. 4. The customer adds a book to their order list from the book catalog. 5. The customer indicates the number of a given item they wish to order. 6. ALTERNATE: IF the order is changed 7. The customer chooses to update order. 8. The system calculates the subtotal for the book items by multiplying the unit price by the quantity ordered. 9. The system redisplay the item contents. 10. The customer repeats STEPS 3 through 8 as necessary. 11. The customer finishes adding items to the order. 12. The customer provides their ship to and billing address including name, phone, and address. 13. The customer chooses to go to checkout. 14. ALTERNATE: IF the Customer continues to shop 15. The system calculates the subtotal for the items order by adding subtotals of the every book item. 16. The system calculates the taxes applicable for the order using tax calculation services.com. 17. The system calculates the shipping and handling charges using tax calculation services.com. 18. Exception: shipping charges 19. The system calculates the grand total for the order by adding the applicable taxes to the order subtotal and subtracting the discounts. 20. The system displays the Order Form. 21. The customer verifies that the order contains what they want to order. 22. The customer indicates how they wish to pay either by credit card or on account. 23. ALTERNATE: IF Customer continues to shop 24. The system confirms the the payment by checking with the Credit Card Company. 25. EXCEPTION: IF Credit card charge is declined 26. The system acknowledges the order fulfillment. 27. The system displays the order confirmation. 28. The system generates and sends order confirmation email to the customer. 29. The Order Books LiveChat is complete and the transaction data is stored. 		

User Interface Requirements

- Tracing a Business Rules and Requirements to User Interfaces

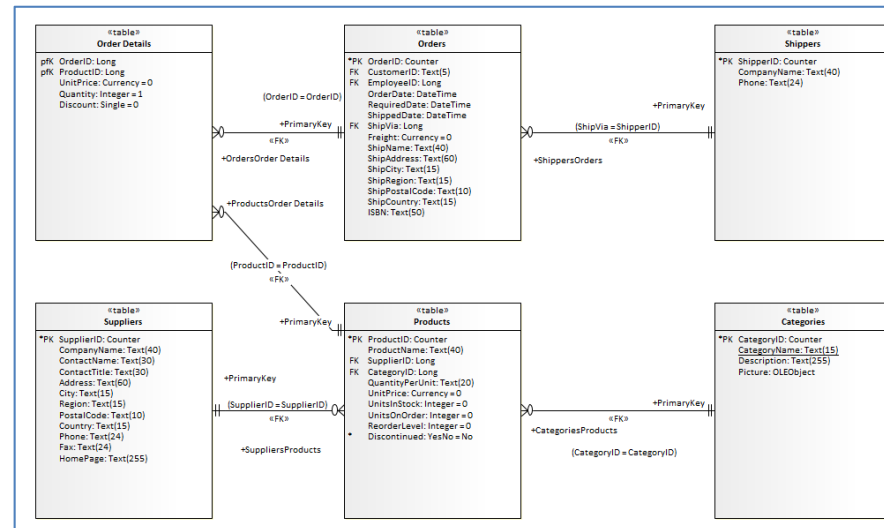
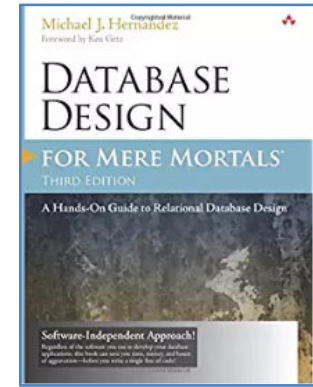
BR	A new customer must not place an order that exceeds \$1000 USD
DR	International Standard Book Number(ISBN) for Book data Classification example 978-3-16-148410-0
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Data Requirements

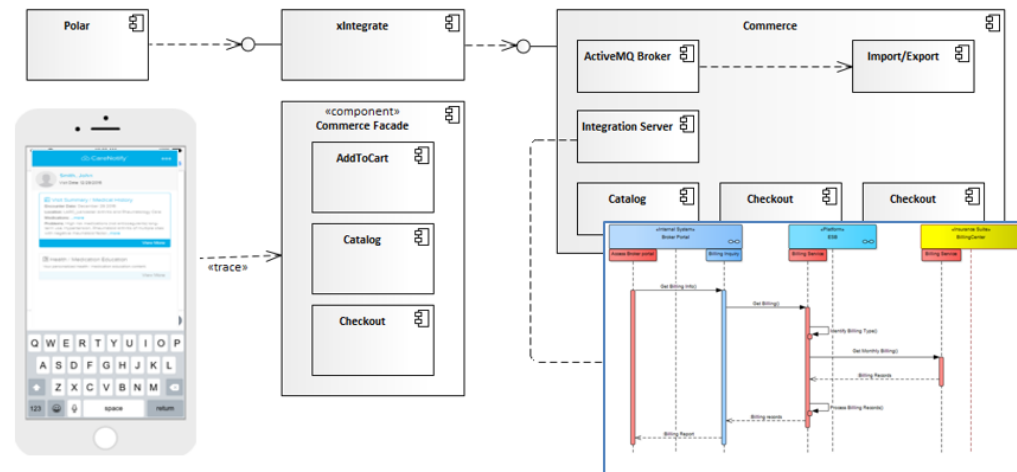
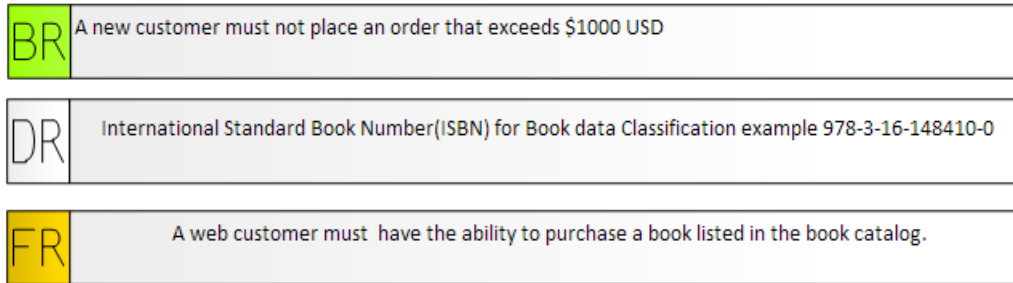
- Trace Business Rules and Data Requirements to Data models

BR	A new customer must not place an order that exceeds \$1000 USD
DR	International Standard Book Number(ISBN) for Book data Classification example 978-3-16-148410-0
FR	A web customer must have the ability to purchase a book listed in the book catalog.



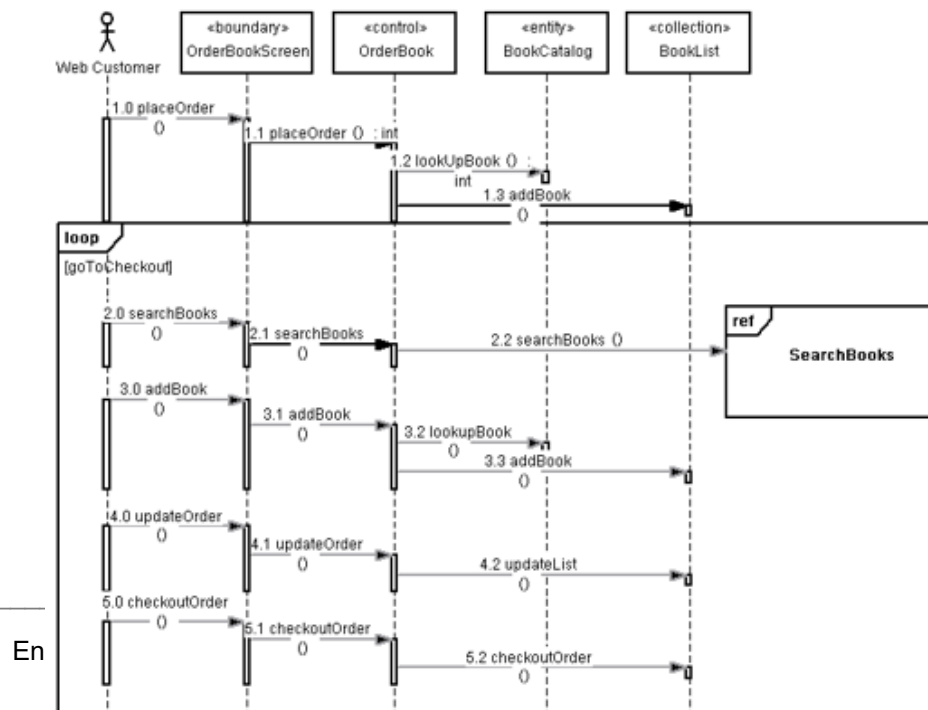
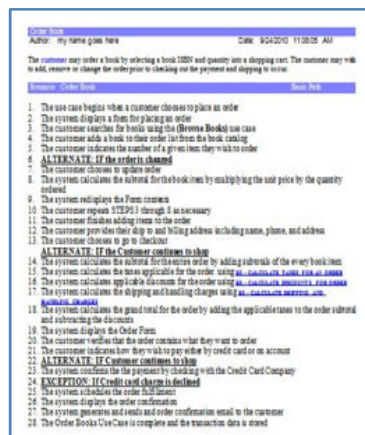
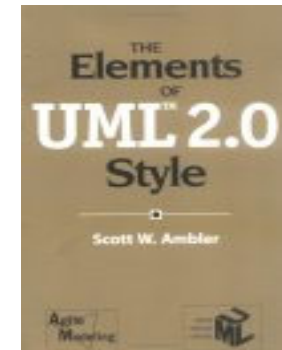
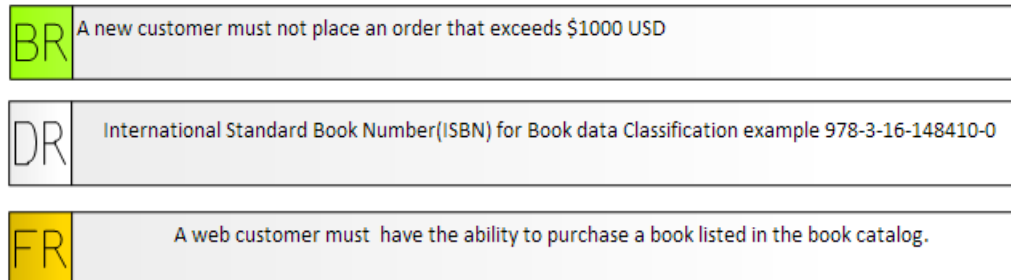
Solution Architecture Requirements

- Trace Business Rules and Requirements to Solution Architecture



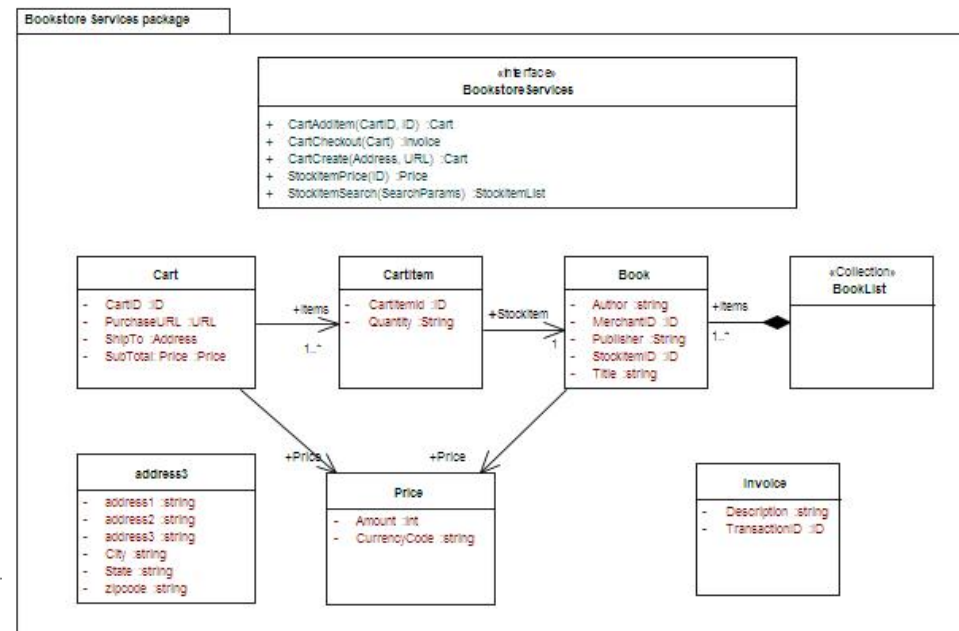
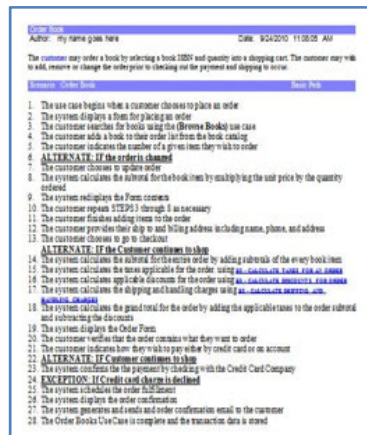
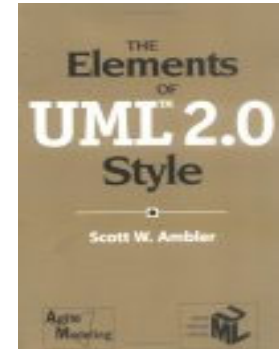
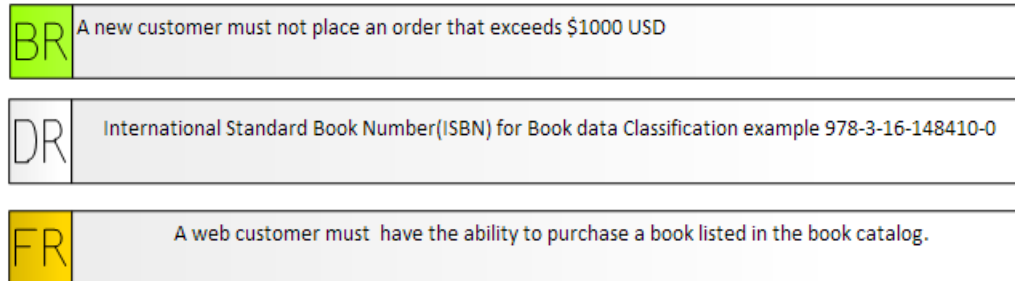
Software Design Requirements

- Trace Business Rules and Requirements to Software Design



Software Engineering Requirements

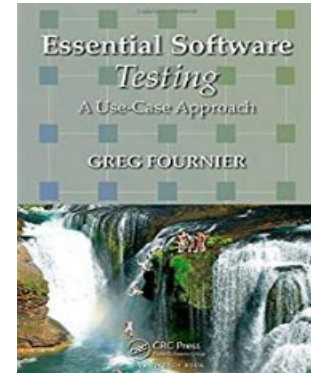
- Trace Business Rules and Requirements to Software Engineering



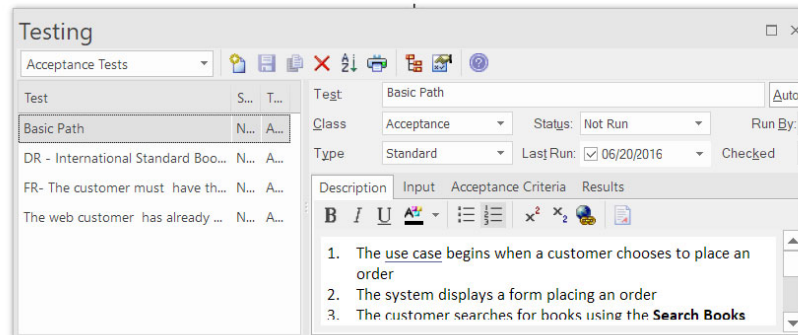
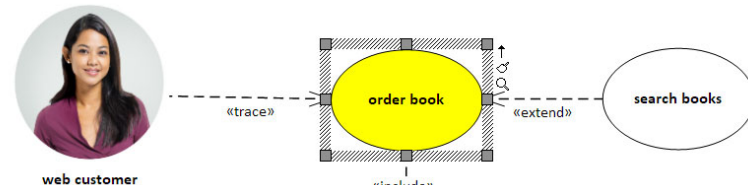
Story driven Acceptance Testing

- Trace Business Rules and Requirements to Testing

BR	A new customer must not place an order that exceeds \$1000 USD
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<p>1. The use case begins when a customer chooses to place an order</p> <p>2. The system displays a form for placing an order</p> <p>3. The customer searches for books using the (Search Books) use case</p> <p>4. The customer adds a book to their order list from the book catalog</p> <p>5. The customer indicates the number of a given item they wish to order</p> <p>6. ALTERNATE: If the order is changed</p> <p>7. The customer chooses to update order</p> <p>8. The system calculates the subtotal for the book items by multiplying the unit price by the quantity ordered</p> <p>9. The system redisplay the form contents</p> <p>10. The customer repeats STEPS 3 through 8 as necessary</p> <p>11. The customer finishes adding items to the order</p> <p>12. The customer provides their ship to and billing address including name, phone, and address</p> <p>13. The customer chooses to go to checkout</p> <p>14. ALTERNATE: If the Customer continues to shop</p> <p>15. The system calculates the subtotal for the items order by adding subtotals of the every book item</p> <p>16. The system calculates the taxes applicable for the order using an external tax service</p> <p>17. The system calculates applicable discounts for the order using an external discount service</p> <p>18. The system calculates the shipping and handling charges using an external shipping service</p> <p>19. The system calculates the grand total for the order by adding the applicable taxes to the order subtotal and subtracting the discounts</p> <p>20. The system displays the Order Form</p> <p>21. The customer verifies that the order contains what they want to order</p> <p>22. The customer indicates how they wish to pay either by credit card or on account</p> <p>23. ALTERNATE: If Customer confirms to buy</p> <p>24. The system confirms the the payment by checking with the Credit Card Company</p> <p>25. EXCEPTION: If Credit card charge is declined</p> <p>26. The system indicates the order is declined</p> <p>27. The system displays the order confirmation</p> <p>28. The system generates and sends an order confirmation email to the customer</p> <p>29. The Order Books Use Case is complete and the transaction data is stored</p>	
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for Requirements Management

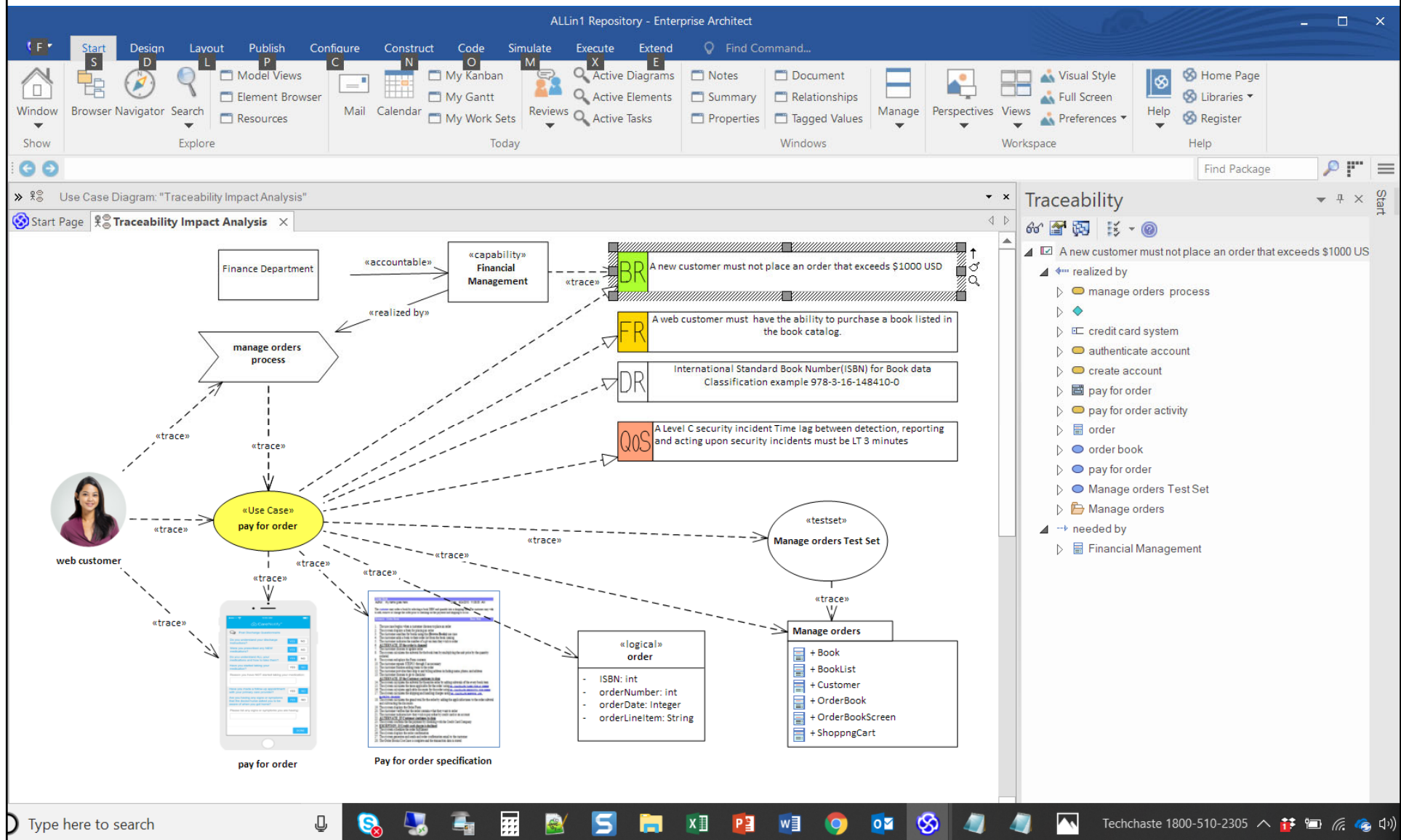


- Background
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Enterprise Architect for Requirements Management

Traceability and Impact of Changes





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Enterprise Architect for Requirements Management

Reuse Requirements

- Manage Requirements for re-use beyond the lifetime of a project
- Re-use facilitates impact analysis for changes
- Re-use Requirements must be readily available to all stakeholders
- Re-use Requirements must be clearly named and defined
- A person should be identified to manage the repository





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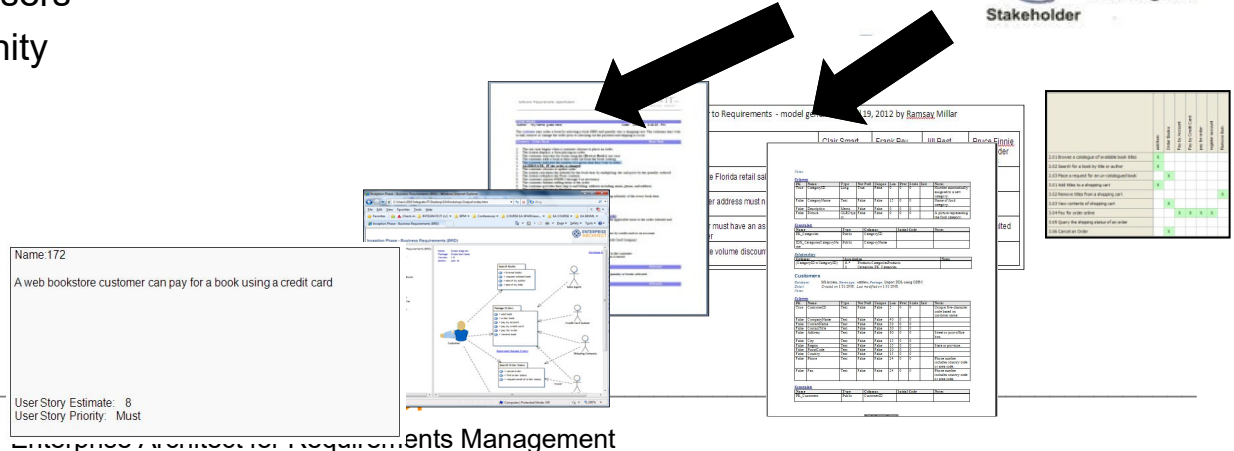
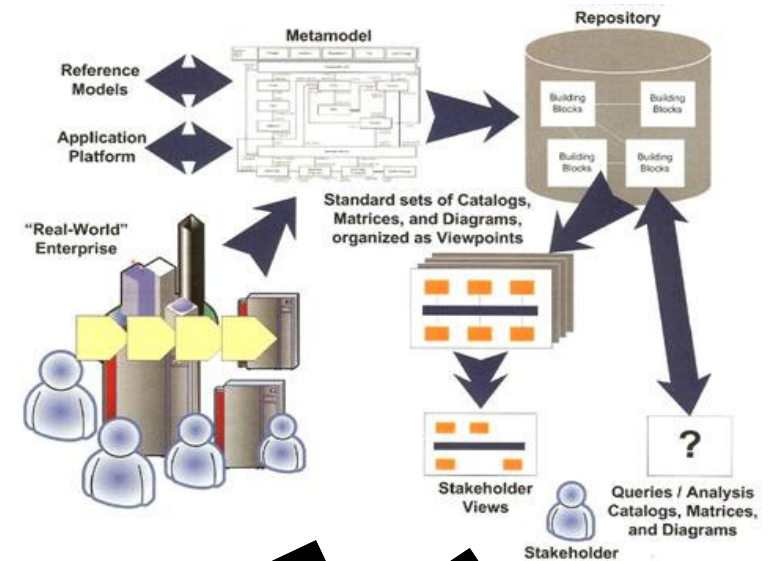


Enterprise Architect for Requirements Management

Knowledge and Requirements Management Must Support



- ✓ Open Standards BPMN, CMN, DMN, MDA, NIEM, TOGAF, UML, REST API Integration
- ✓ Modeling business transformation and cloud migrations across the Enterprise
- ✓ Modeling and text traceability across projects and the enterprise
- ✓ Cloud based
- ✓ Cloud integration
- ✓ Model and Word documentation
- ✓ Security and Baselines
- ✓ Open Relational Databases technology
- ✓ Scalability for thousands of users
- ✓ A Loyal User Group Community
- ✓ Low cost of entry



Project | Documentation | Generate RTF/PDF



1. Select an **Element**
2. Create a New Template
3. Select and Sort Sections
4. Delete unwanted Content Format
5. Add new Content Format
6. Insert Fields into Table
7. Generate Document

order book

As a Web Customer I wish to find and purchase a book so that I may read it.

Story Estimate: 8 hours
Story Priority: 5

The collage displays multiple overlapping screenshots of a software requirements specification document. The documents show various sections including 'Software Requirements Specification', 'order book', 'Happy Path', and 'order book' with details about version, author, and content. The documents are shown in a layered fashion, with some appearing more prominent than others, illustrating the document's structure and content.

Mandatory Reading: Sparx White paper - Working_with_the_RTF_generator



Enterprise Architect for Requirements Management

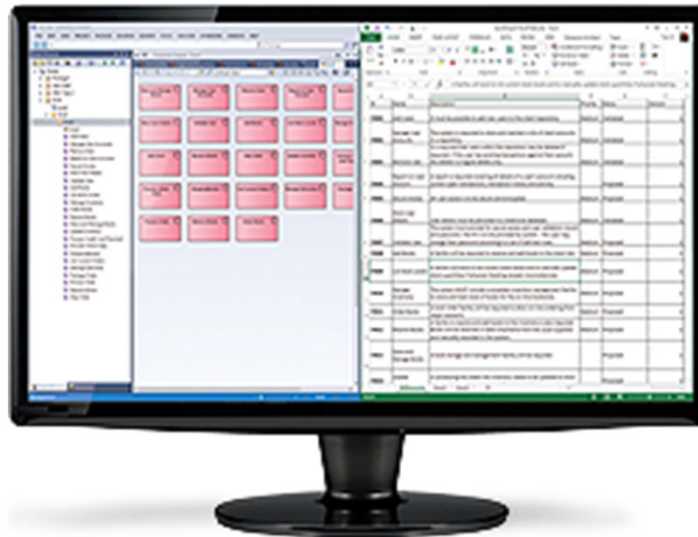
MS Excel

MDG Integration for Microsoft Office



The MDG Integration for Microsoft Office allows teams to seamlessly leverage the information authored in MS Word, MS Excel, MS Powerpoint documents within Enterprise Architect as model elements and

- Use MS Excel to generate a Use Case diagram in Enterprise Architect
- Import requirements into EA using MS Excel
- Synchronize data between MS Excel and Enterprise Architect



Enterprise Architect for Requirements Management

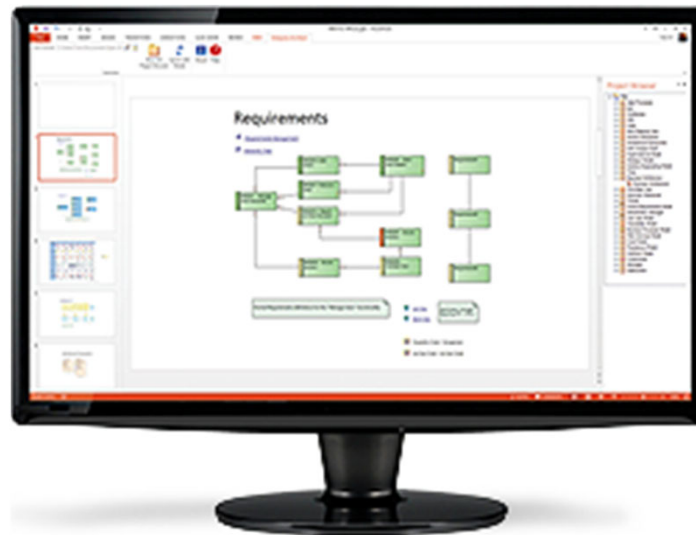
MS PowerPoint

MDG Integration for Microsoft Office



The MDG Integration for Microsoft Office allows teams to seamlessly leverage the information authored in MS Word, MS Excel, MS Powerpoint documents within Enterprise Architect as model elements and

- The Integration allows you to utilize your model directly within a PowerPoint presentation and ensure that your presentation is always up-to-date with the latest changes in your model
- Generate a MS Powerpoint presentation from Enterprise Architect



Enterprise Architect for Requirements Management

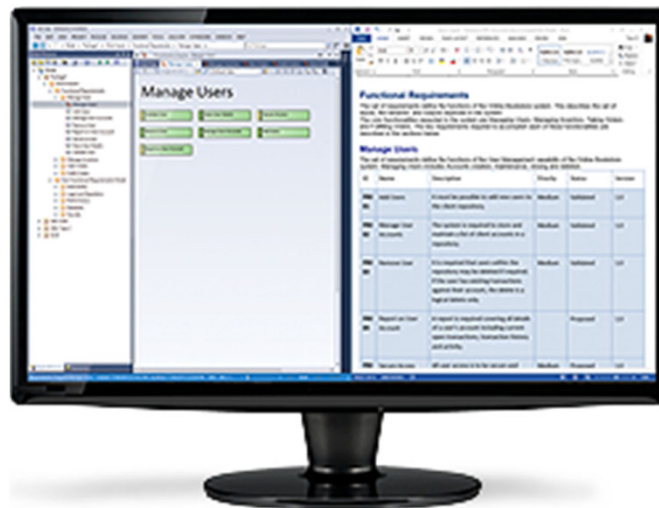
MS Word

MDG Integration for Microsoft Office



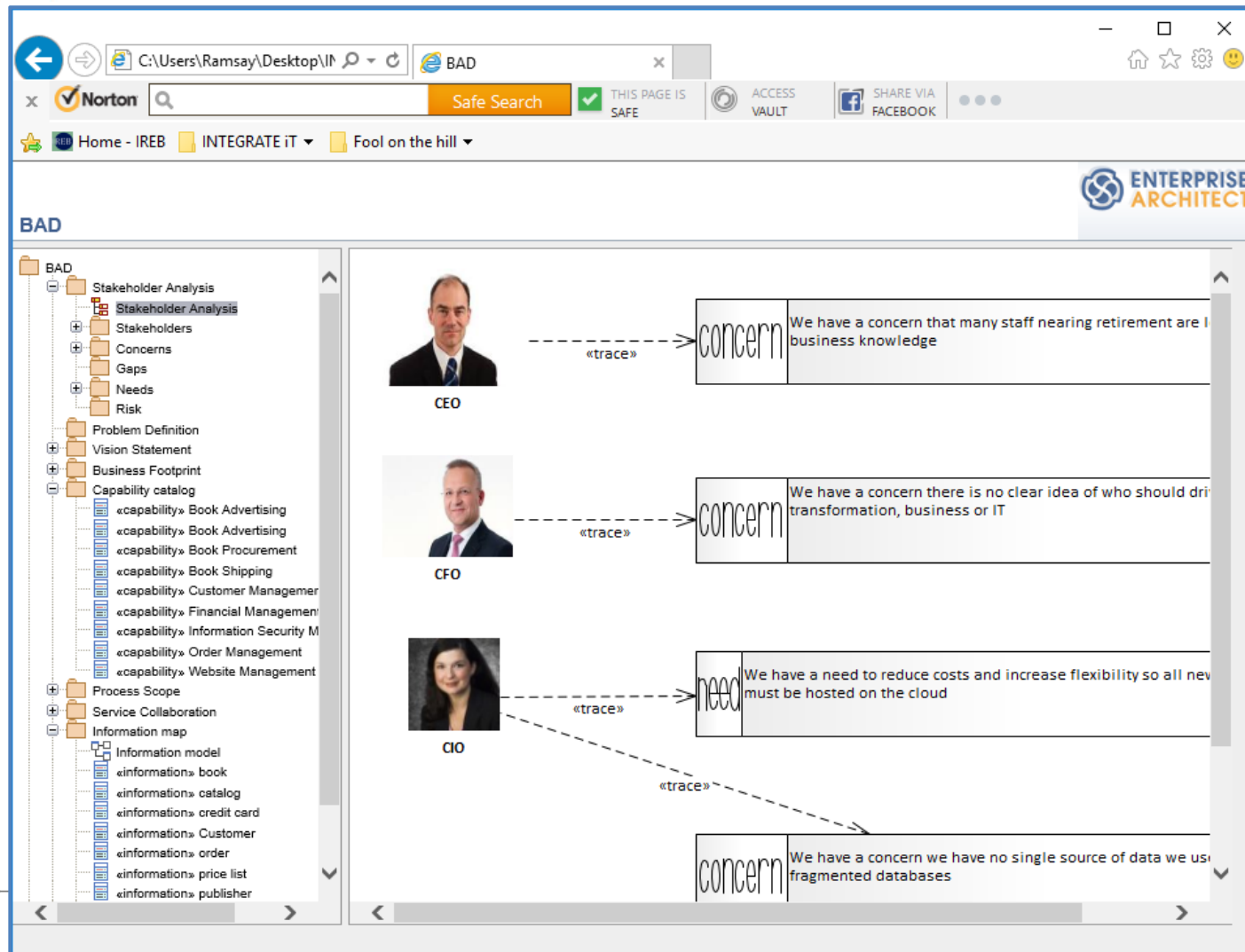
The MDG Integration for Microsoft Office allows teams to seamlessly leverage the information authored in MS Word, MS Excel, MS Powerpoint documents within Enterprise Architect as model elements and

- Importing an MS Word Requirements, Use Cases and other project information
- Packages and Elements
- Using Linked Documents
- Synchronize MS Word with Enterprise Architect



Enterprise Architect for Requirements Management

PUBLISH | Web | Standard HTML Report





for Requirements Management



- Background
- Who is involved with Requirements Management?
- Key Requirements across the Landscape
- Traceability and Impact of change
- Reuse Requirements
- Enterprise Architect and Documentation
- Enterprise Architect Pricing
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Enterprise Architect for Business Analysts

Enterprise Architect for Business Analysts

Duration: 3 days – Expert led Enterprise Architect hands-on training

Innovative Business Analysts need to find better ways to improve project productivity, reduce risk, and to deliver business value. Learn why the IIBA® selected Enterprise Architect as their BA tool of choice and why they said Enterprise Architect is a "leader [in its field] ... offering the BA community increased value and support, and helping achieve greater business outcomes." Business leaders need highly effective BA's, EA's, and PM's working as a team to ensure business outcomes are realized. Learn how Sparx Enterprise Architect harmonizes critical roles using a shared reuse repository.

This interactive hands-on workshop is focused on revealing best practices techniques when using Enterprise Architect as a comprehensive Business Modeling, Business Process modeling, and Requirements Management productivity tool. This workshop incorporates effective techniques based upon the Business Architecture Guild (BIZBOK®) and the International Institute of Business Analysts (BABOK®).

The numerous productivity techniques shared by our experts are documented to accelerate project deliverables by 40%. We invite you to join our Master BA, and Enterprise Architect SME, who will lead your workshop experience along with supplied course materials.

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Enterprise Architect for Requirements Management



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Enterprise Architect for Requirements Management

INTEGRATE IT, Inc.

<https://www.IN2GRATEiT.com>



INTEGRATE IT founded by Ramsay Millar is dedicated to building better business solutions. Our proven track record, of applying practical methods, techniques, and tools reduce IT transformation risk and improve business value.

Since 2001, our company has worked with 110 of the Fortune 500 companies, completed over 1,100 business modeling and IT alignment assignments, and we trained over 5,000 business architects, business analysts, enterprise architects, and software engineers. Our organization follows a proven approach that is efficient for all stakeholders across many business sectors and Architecture Landscapes. We maintain our good reputation of empowering clients with expert consulting, professional services, and training services across these key capability areas:

- Knowledge Transfer and Professional Skills Development
- Knowledge Management and architecture repository setup
- Professional Services



Enterprise Architect for Requirements Management

INTEGRATE IT – Capability Statement

<https://www.IN2GRATEiT.com>



We endorse Sparx Systems' Enterprise Architect to our clients looking for Model Driven Architecture to greatly improve productivity. We assist our clients by providing:

Professional Services

- Business Architecture
- Business Analysis
- Business Process Improvement
- Enterprise Architecture POC
- Governance, Risk, Compliance
- IT Service Management
- Rapid Assessments
- Security Architecture
- Dev Ops using UML OOAD
- TOGAF Implementation Projects

Knowledge Management

- EA Repository Deployments
- EA Advanced Reporting and BI
- EA Programming and scripting
- EA Tools Integrations
- Metamodel Frameworks
- Modeling Tools Harvesting
- Model Guardianship
- Repository Cleanups

Training and Mentorship

- Business Architecture Fundamentals
- Business Process Modeling
- EA for Business Analysts
- EA for Team Players
- EA for TOGAF®
- EA for Dev Ops
- OMG UML Basic and Advanced
- Prolaborate® Model Collaboration
- TOGAF® Exam Mentorship

Our Strategic Partners

- Ability Engineering - eaDocX
- Ability Engineering – Model Expert
- Cloud Computing Technologies
- Prolaborate® Tools Collaboration
- TASKTOP Tools Integration
- Sparx Systems Australia
- Sparx Systems Europe
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Ramsay Millar

Ramsay Millar

Ramsay Millar, is an experienced global expert in the fields of Business and technology alignment and transformations, Agile Project management, Business Analysis, Business Architecture, Enterprise Architecture, Modeling Frameworks and Case tools, Software Engineering and Senior Management Consulting.

Ramsay is active in studying and blending open standards and is on numerous architecture committees like Business Architecture >Guild (BIZBOK) using OMG UML, IIBA BABOK, PMI BA. His workshops are practical and pragmatic by design – results-oriented and focused on applying current standards and best practices to real world challenges.

Millar's impressive list of satisfied reference-clients can confirm he is a proven leader and an effective mentor/trainer – capable of transferring critical skills to dramatically improve your next project.

- Leader in aligning business and technology since 1991
- Experienced professional with strong people, business, technical and teaching skills
- Master Enterprise Architect, TOGAF 9.1 Certified trainer.
- Master Business Architect (OMG UML for Business, BIZBOK)
- Master Business Analyst, BACP (CMMI, IEEE, BABOK, PMI/BA)
- Deployed TOGAF 9 with hands-on tools since 2009
- Modeling frameworks & tools expert since 1989
- Agile Project manager since 1991
- Software Engineering using Agile Unified Process since 2001
- Course author and professional educator since 1997
- Management consultant in very difficult situations always delivers
- Expert in project readiness for complex teams and projects



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THE CHALLENGE
Project managers from a major international consulting firm faced tight deadlines for creating an extremely complex public-private sector business and technology solution under very tight deadlines. This new service would provide health insurance services to state citizens, primarily using software and the Internet.

The best solution for this high-profile service would require seamlessly linking the online public and private systems with several private-sector partners with real-time access to multiple databases located in other jurisdictions.

The project was under a media microscope from the day it was announced. Reputations were at stake – both for the client and for the contractors.

THE RESPONSE
This case study describes in detail how skilled project managers used a combination of a carefully selected CASE tool best practice techniques, reusable reference models and rigorous team training to accelerate development of the new service.

The project accelerated enabled the project team to prevail over tight deadlines – building in time to test the system and make adjustments prior to a global release.

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Want to give your team the edge?

Closing the Gap

Ramsay Millar on trends in software process improvement

By David Reilly, Dr. Dobbs' Journal
Oct 29, 2008
URL: <http://www.ddj.com/architect/211201795>



"Traditional software development practices die hard but the light at the end of the tunnel is getting clearer."

Ramsay Millar spends his working days as close as anyone can get to applying emerging trends in software development to real-world challenges. Millar travels the U.S. and Canada facilitating workshops for developers and IT professionals looking for better ways to deliver and evolve business-critical software.

"Currently we are all focusing on closing the gap between business requirements and software delivery by moving away from the dysfunction of code-and-fix legacy thinking," said Millar.

Each week he mentors a different group of workers. Over the course of a year Millar works with hundreds of software-development professionals -- software designers, code engineers, project managers, business analysts, testers, CIO's and enterprise architects. This wide-ranging experience with his clients provides him with insights that vary from traditional dysfunction on one hand to outstanding examples of process and tools efficiency on the other.

All this front-line experience leaves him with an interesting perspective towards the ongoing struggle within corporations and government agencies looking for new solutions for building software. This brings him face to face with a wide range of experiments for applying better practices to the complicated process of delivering software to business stakeholders.

"Software development is a high risk business when we look at the industry record of success," said Millar. "It's really astonishing how commonly we face IT project failure -- CIO Magazine recently reported 'as many as 71 percent of software projects that fail, do so because of poor requirements management, making it the single biggest reason for project failure.'"

After three decades as a software engineer -- and ten years as a software road-warrior and mentor -- Millar currently sees a shift in industry practice as significant as the introduction of object-oriented programming a generation ago -- a shift that is so new it does not yet have a name.

"We're seeing three trends maturing and starting to converge," said Millar. "When you layer all three trends together the cumulative effect is a solution to that high historic failure rate."

The result is a profound change in IT culture and practice. This change improves business agility and creates repeatable software quality along with dramatic reductions in the need to re-work code. This kind of improvement appeals not only to the CIO team but also to the controller, who is always looking for ways to increase value-for-money.

Millar said a focus on quality costs far less than wasteful code-and-fix legacy thinking. "The manufacturing industry discovered this years ago," he said. "The excitement today is now more clients realize we can do this with software also!"

"Every one of my clients is actively engaged in improving the way they deliver and maintain software," he said. "My clients are tired of traditional IT dysfunction and wasteful re-work practices. "When we can move beyond these issues, the reward for improving the process is a happier customer and an improved business bottom line."

Millar said the three trends of this "quiet transformation" are:

- A wish to close the gap between business requirements and software delivery by applying an agile process and best-of-breed automation to the entire software development life cycle. This gap is closing across the lifecycle -- from process workflows, through rigorous use-case-driven requirements to well formed reusable services and architecture.
- An increasing acceptance and sophistication of the Unified Modeling Language (UML) standard -- evidence of which is found in the rapid growth of reference models in Model Driven Architecture (MDA), the recent merging of UML and Business Process Modeling



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