Welcome to the webinar… We will begin shortly

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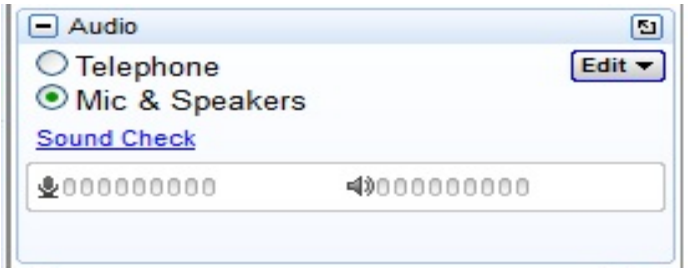

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Vision

- The world's leading association for Business Analysis professionals

Mission

- Develop and maintain standards for the practice of business analysis and for the certification of its practitioners

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Vendor Showcase:

From Idea to Production Continuous Development Starts With An Idea, Not After Testing is Finished!

Huw Price,
Managing Director,
Grid-Tools

October 15, 2014

Huw Price, Managing Director, Grid-Tools

- Award-winning Huw Price has been the lead technical architect for several US and European software companies over the last 30 years. He is now Managing Director of Grid-Tools, the leading test data management vendorand Chief Technical Architect at Agile Designer. Huw has been guest speaker at many UK and International conferences including Oracle, HP, Star East and the IIBA's UK Chapter.

Question and Answer

- Use the Question box to ask questions
- Selected questions will be answered at the end, but you can ask at any time.
- Short, specific questions, please!

The *Active* Flow Chart

IIBA Vendor Showcase:

From Idea to Production
Continuous Development Starts With An Idea, Not After Testing is Finished!

Common Challenges

- 56% of software defects can be traced back to ambiguities in requirements[1]
- Detecting and resolving production defects is over 40x more expensive than in requirements[2]
- Industry standard for manual test case design coverage is between 10-20%
- Over-testing of some functions by factors of 40 is not uncommon
- Change requests to existing software requirements can take up to as much as 60% of the SDLC
- If I make a change I have no idea the effect this will have on up stream or downstream systems

(Stats: 1 and 2 - Bender RBT, Others: Grid-Tools)

AGILE designer

Continuous Development

- Continuous Integration
- Iterative Development
- Dev Ops
- Is mostly Ops
- It starts when development and testing are complete
- It should start when the user has an idea!

AGILE designer

Agile Designer

- There are plenty of tools to manage requirements
- There are plenty of tools to manage test cases
- These can be considered logistical support

Agile Designer is an accelerator to improve the input to these tools

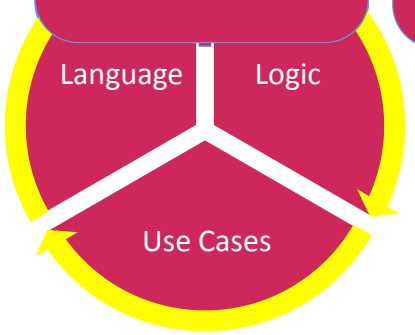
- Is a Test Case Design and Test Case Optimization tool
- Is a Requirements Definition tool
- Can calculate complexity very accurately
- Can identify change across the entire SDLC

Agile Designer gives you multiple outputs for one input

AGILE designer

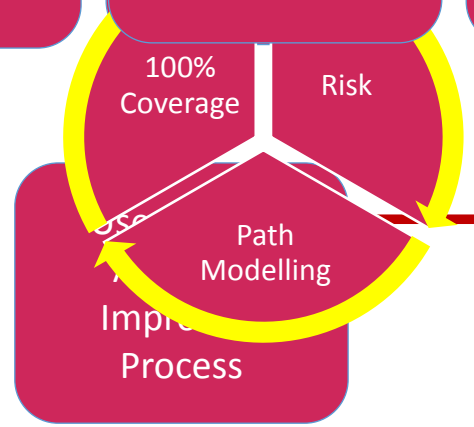
What does Agile Designer Do

To Build better Requirements



To Estimate Complexity

To Create Perfect Test Cases



To Improve my Existing Test Cases

To link Test Cases to Change

To Create and Manage my Test Data

To Create Automation

- QTP
- Rational Functional Tester
- SOA Test
- Lisa Test
- Microsoft Test UI
- TestPartner
- Robot
- Selenium
- SilkTest
- TestPlant
- Test Complete
- Auto IT
- TCL

AND

OR

Drive Continuous Development

Each Component Has Value on its own

AND can be used in conjunction with other functions

Earlier Delivery

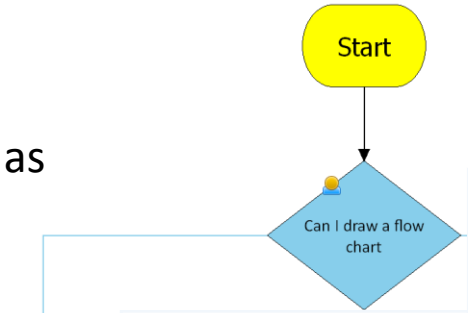
AND

Higher Quality

AGILE designer

"Everything should be made as simple as possible, but not simpler."

Albert Einstein



No

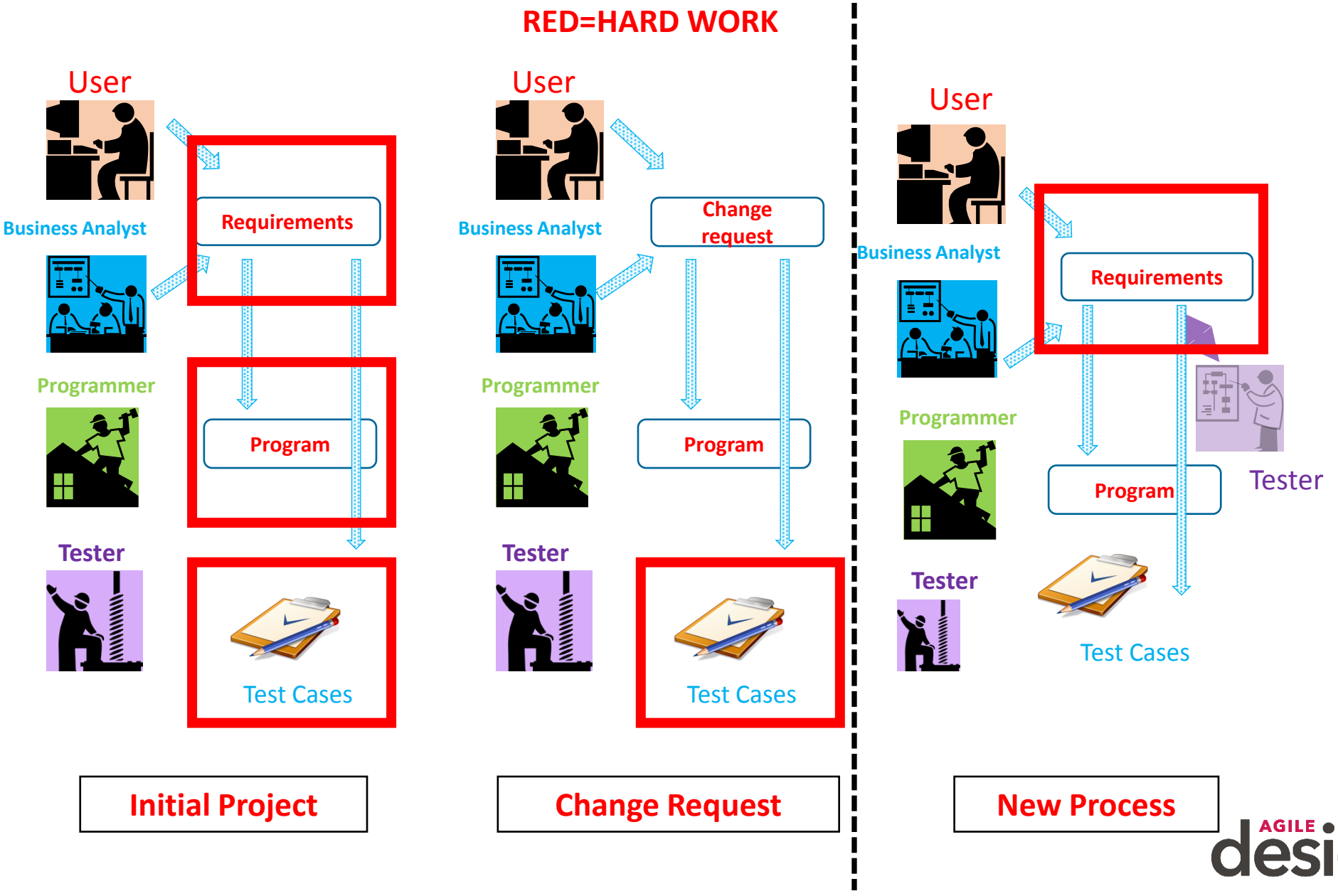
	test_name	UseCasesOK	GeneratetheTestCases	CanIDrawaflowchart	BuildtheFlowChart	ImporttheTestCases	Remove,Replace&AddTestCases	DotheTestCasesAlreadyExist	DoesttheRequirmentAlreadyExist	ImporttheTextintoAgileDesigner	expected_result
1	NegativeUseCase			No							Bye Bye
2	BuildFromScratch	Yes	Yes	Yes	Yes			No	No		Perfect Test Cases
3	ImportText	Yes	Yes	Yes	Yes			No	Yes	Yes	Perfect Test Cases
4	ImportTests	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No		Perfect Test Cases;Optimize
5	ImportTextandTests	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Perfect Test Cases;Optimize

We *do* know that when our eyes our open, our vision accounts for two-thirds of the electrical activity of the brain — a full **2 billion of the 3 billion firings per second** — which was the finding of neuroanatomist R.S. Fixot in a paper published in 1957.

End

AGILE designer

Evolving to Greater Efficiency with Agile Designer



Agile Designer – Better Testing

Think of a Requirement like a circuit board

- The Test Cases will reflect the requirements

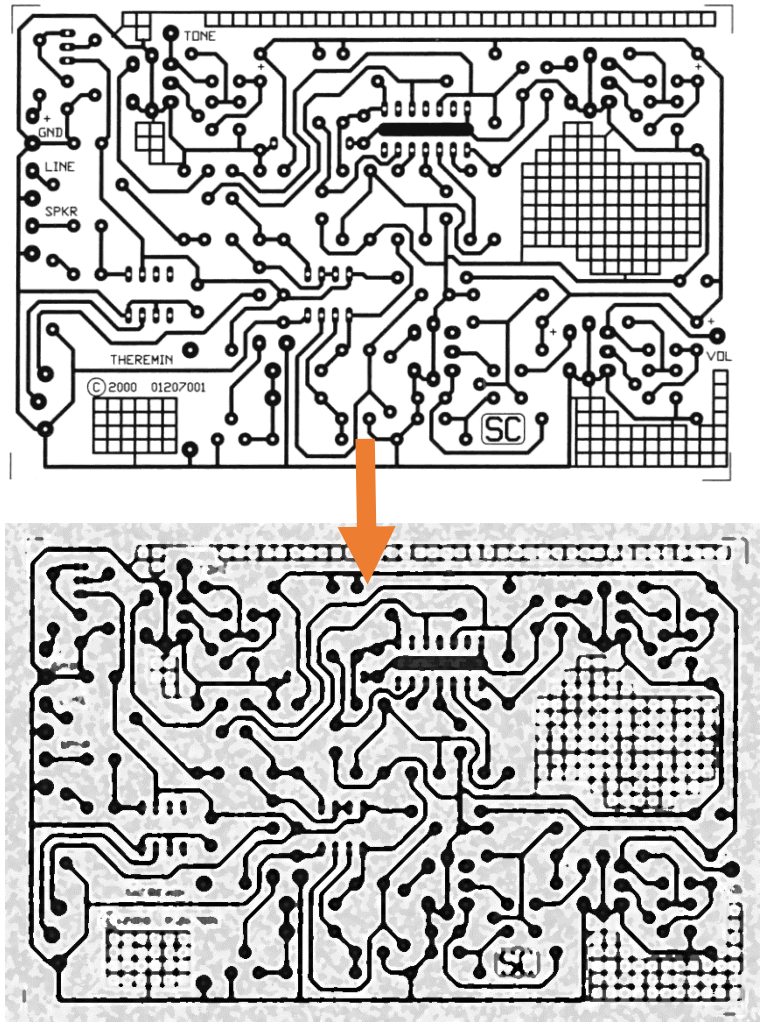
Static Testing

- You can Accurately Measure your Coverage

- You can Automatically create the Minimum Test Cases

With Maximum Coverage

- You can reduce and optimize your existing test cases



AGILE designer

What is Testing Coverage?

The Business Thinks it's:

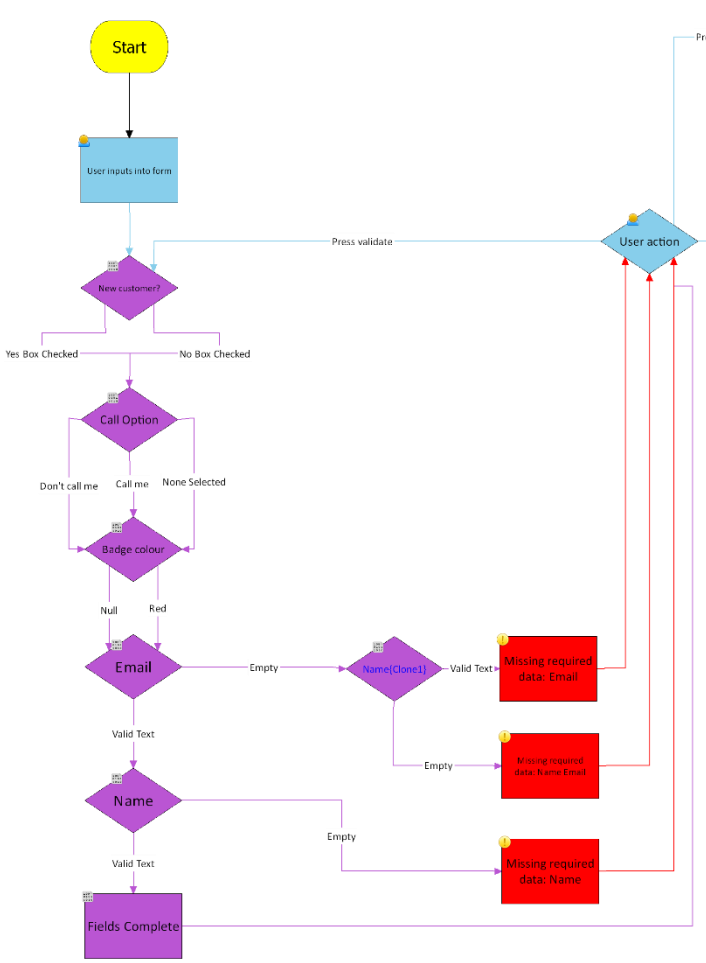
- Code Covered
- Number of Test Covered – Tests Run
- Percentage of use cases
- All Paired Combinations

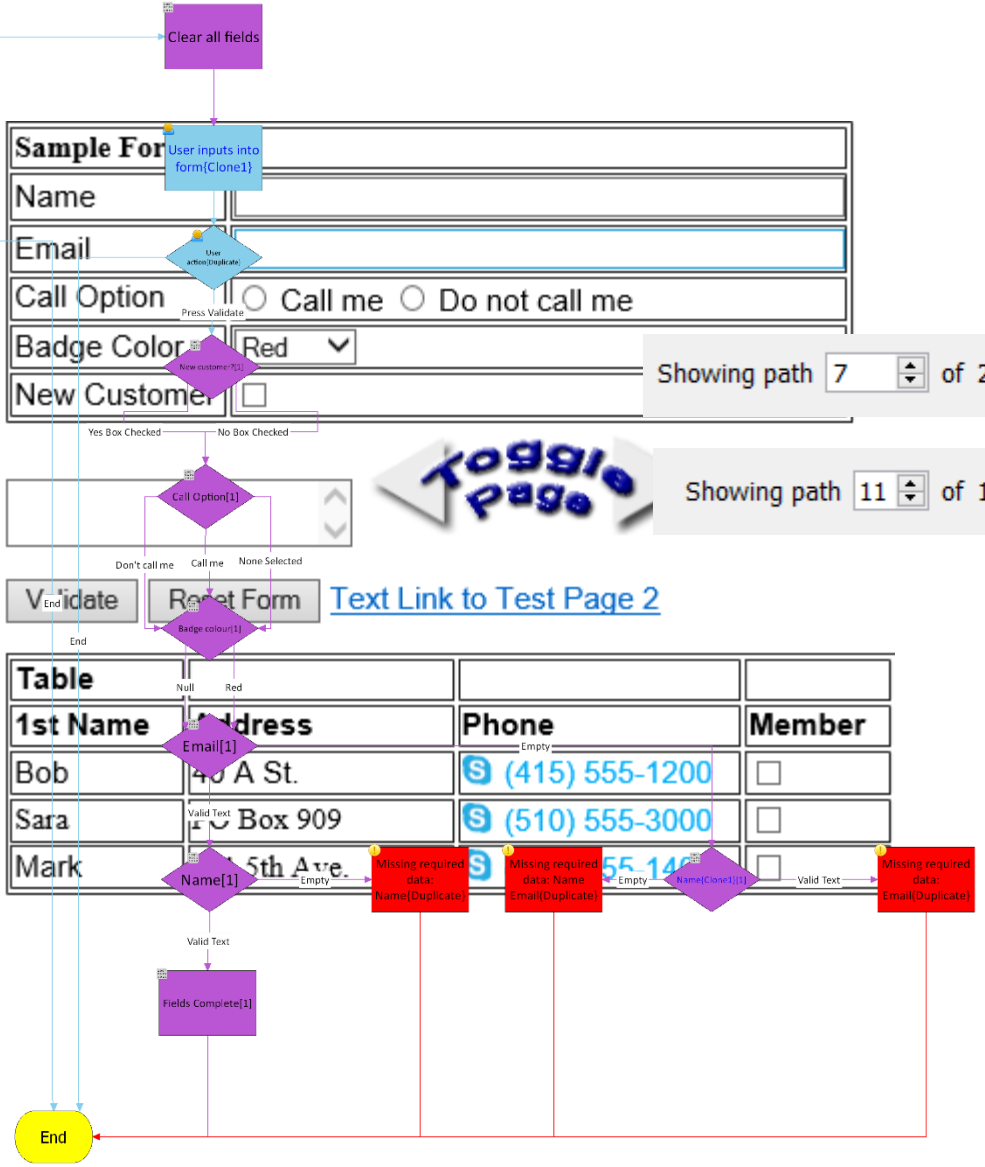
It is actually:

- Designing Sufficient Tests To VERIFY That The Design And Code Correctly Implement The Requirements
- Did you get the right answer for the right reason - Two or more defects may sometimes cancel each other out - Observability

A Simple Form

Easy to test?





Showing path 7 of 2400

Showing path 11 of 11

Sample Form	
Name	
Email	
Call Option	Call me / Do not call me
Badge Color	Red
New Customer	

Validate | Reset Form | Text Link to Test Page 2

Table			
1st Name	Address	Phone	Member
Bob	40 A St.	(415) 555-1200	
Sara	PO Box 909	(510) 555-3000	
Mark	101 5th Ave.	(415) 555-1400	

AGILE designer

Build Test Cases from Requirements

	Baseline	Agile Designer
Test Cases Created	14	17
Time Taken	5 hours	2 hours
Test Coverage - %	16%	100%

- Agile Designer was also able to shrink 326 possible test cases down to just 17, retaining 100% coverage
- Based on interviews and analysis, client expected to see an 80-90% reduction in bugs in this case
- Change requests: Client must manually check and change all of the test cases
- This took 5 testers days of work to complete - Agile Designer was able to complete the task in 5 minutes

AGILE designer

Requirements - A plethora of techniques and methodologies

Some, but not all, of the potential models that you may want to create on a software development project include:

- Acceptance Test
- Business Rule (Template)
- Change Case (Template)
- Class Responsibility Collaborator (CRC) model
- Constraint
- Contract model (Template)
- Data Flow Diagram (DFD)
- Domain Model
- Essential/Abstract Use Case (Template)
- Essential/Abstract User Interface Prototype
- Feature
- Free-Form Diagrams
- Flow Chart
- Glossary
- Logical Data Model (LDM)
- Mind Map
- Network Diagram
- Object Role Model (ORM) Diagram
- Personas
- Physical Data Model (PDM)
- Robustness Diagram
- Security Threat Model
- System Use Case (Template)
- Technical Requirement
- UML Activity Diagram
- UML Class Diagram
- UML Communication/Collaboration Diagram
- UML Component Diagram
- UML Composite Structure Diagram
- UML Deployment Diagram
- UML Interaction Overview Diagram
- UML Object Diagram
- UML Package Diagram
- UML Sequence Diagram
- UML State Machine Diagram
- UML Timing Diagram
- UML Use Case Diagram
- Usage Scenario
- User Interface Flow Diagram (Storyboard)
- User Interface Prototype
- User Story
- Value Stream Map

The results are often poor

Summary

Ambiguity Category	Number of occurrences
Contradiction	7
Ambiguity of reference	10
Dangling Else (including improper use of conditionals)	9
I.E. versus E.G.	1
Omissions (Missing Clauses)	5
Omissions (Missing Definitions)	3
Completely Ambiguous	1
Ambiguous Logical Operators	2
Ambiguous Precedence Relationships	5
Incomplete Definition Completed Elsewhere	3

Total ambiguities found: 46

"Everything should be made as simple as possible, but not simpler."

We *do* know that when our eyes our open, our vision accounts for two-thirds of the electrical activity of the brain — a full **2 billion of the 3 billion firings per second** — which was the finding of neuroanatomist R.S. Fixot in a paper published in 1957.

Flow of Events

Basic Flow

1. The system places a story in the editor's "to-do" v
2. The editor views the story.
3. The editor categorizes the story and marks it appr
4. The system includes the story and triggers initiati

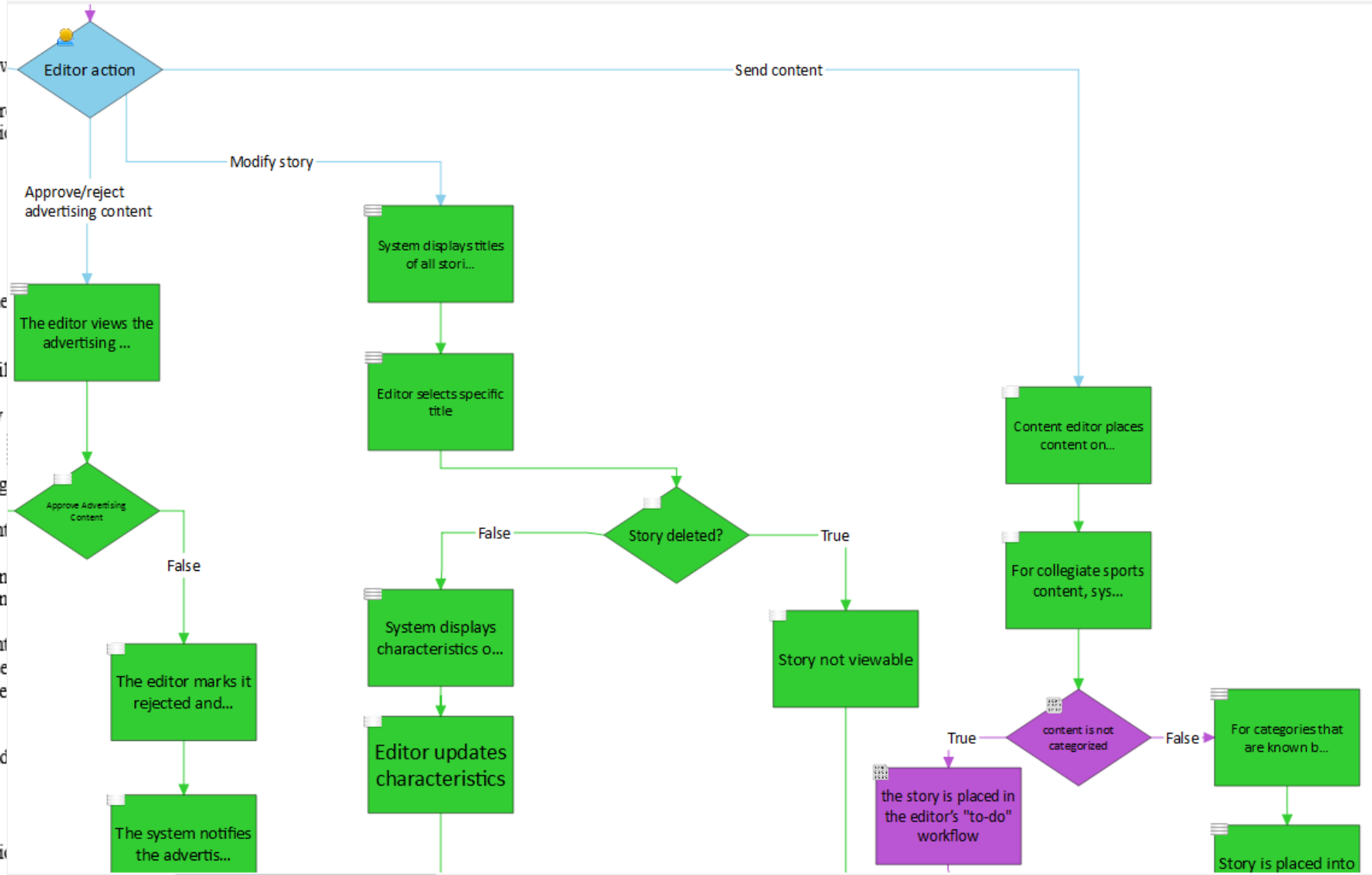
Alternate Flows

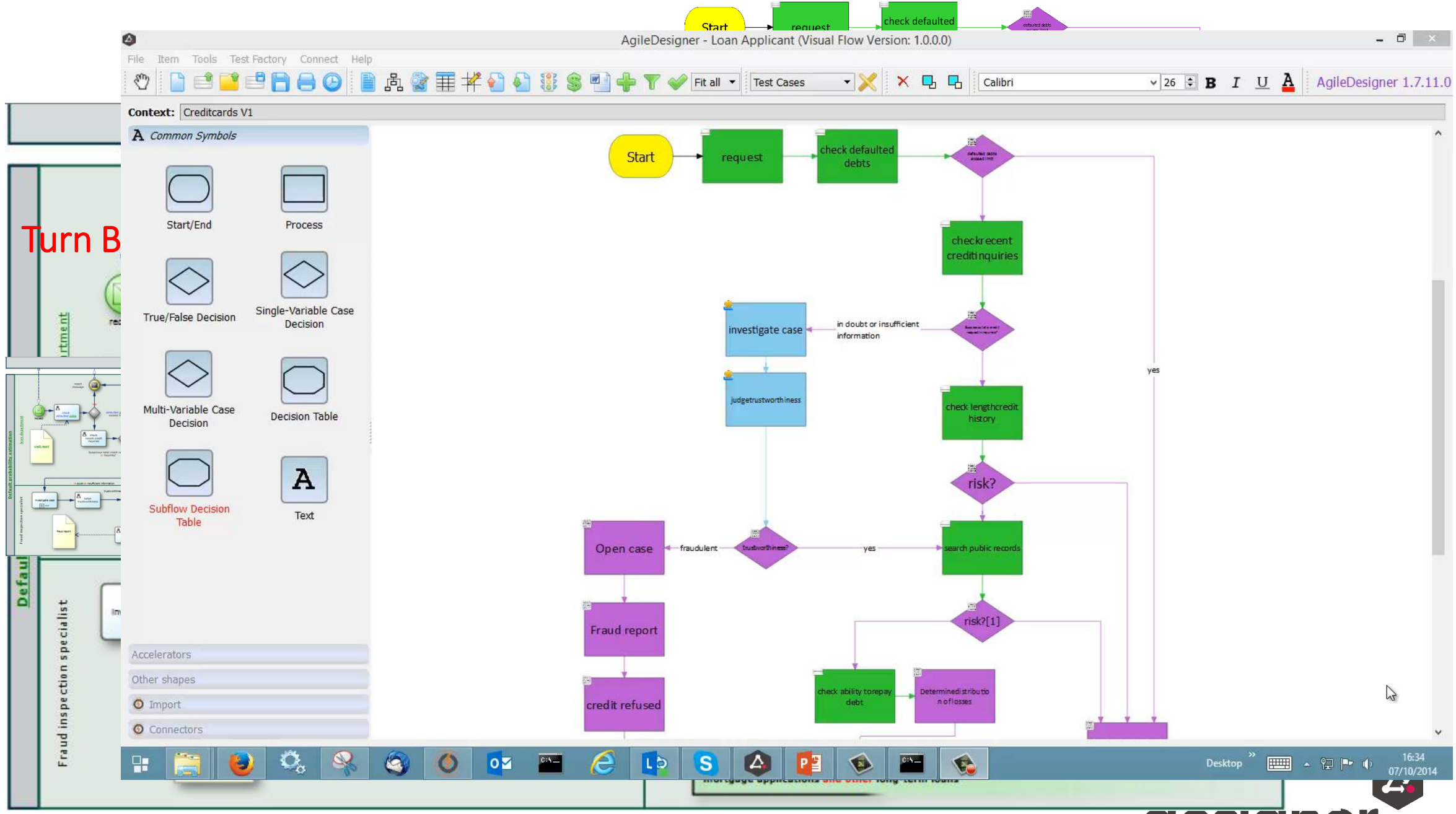
1. Reject Content
    1. The editor views the story.
    2. The editor marks the story as rejected
    3. The system notifies the originator of the
2. Modify Content
    1. Editor selects "Modify Story"
    2. System displays titles of all stories avail
    3. Editor selects specific title
    4. System displays characteristics of story
    5. Editor updates characteristics
    6. Editor selects "Save"
    7. System re-posts story, triggering paging
3. Approve Advertising Content
    1. The editor views the advertising content
    2. The editor marks it approved.
    3. The system includes the advertising con
    4. The system marks the preliminary billin
4. Reject Advertising Content
    1. The editor views the advertising content
    2. The editor marks it rejected and provide
    3. The system notifies the advertiser (via e
5. Story not viewable

    If the story has been deleted by another editor and

Special Requirements

Special requirements will be determined during the next iterati




AgileDesigner - Loan Applicant (Visual Flow Version: 1.0.0.0)
File Item Tools Test Factory Connect Help
Fit all
Test Cases
Calibri
26
AgileDesigner 1.7.11.0
Context: Creditcards V1
Common Symbols
Start/End
Process
True/False Decision
Single-Variable Case Decision
Multi-Variable Case Decision
Decision Table
Subflow Decision Table
Text
Accelerators
Other shapes
Import
Connectors
Start
request
check defaulted debts
checkrecent creditinquiries
investigate case
in doubt or insufficient information
judgetrustworthiness
check lengthcredit history
risk?
yes
Open case
fraudulent
yes
search public records
Fraud report
risk?[1]
credit refused
check ability torepay debt
Determinedistributio n oflosses
Desktop
16:34
07/10/2014
Turn B
Fraud inspection specialist
Click Here to Get Active

AgileDesigner - RiskCheckingLocal (Visual Flow Version: 1.0.0.2)

File Item Tools Test Factory Connect Help

Fit all | Use Cases | Calibri | 20

Context: Creditcards V1 Data Group: Agile Designer Data Set: Visual Flow - Test Case Design

Common Symbols

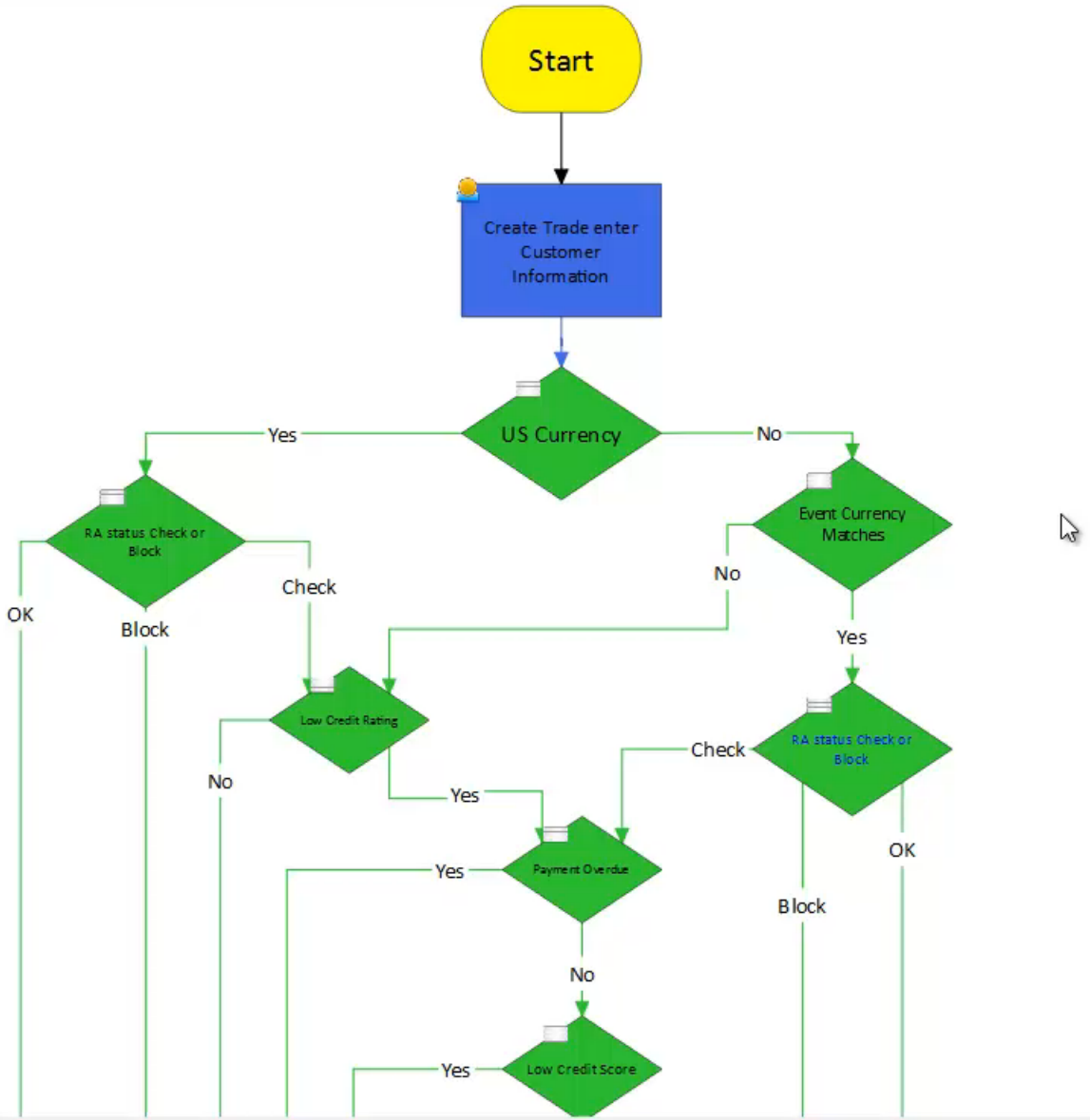
- Start/End
- Process
- True/False Decision
- Single-Variable Case Decision
- Multi-Variable Case Decision
- Decision Table
- Subflow Decision Table
- Text

Accelerators

Other shapes

Import

Connectors



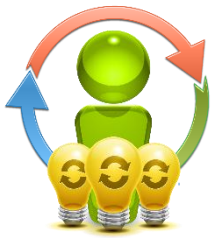
The Integrated Development Chain

Project Manager <-> Test Manager <-> Programmer <-> Testers

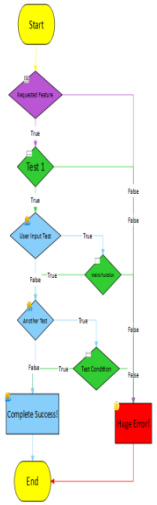
User Requirement

Change Request

BA



User



Agile Designer

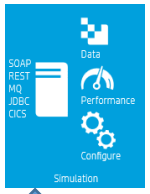
- Use Cases
- Requirements
- Complexity
- Test Cases
- Test Data
- Virtual Data
- Automation
- Expected Results
- Backlog

Clarity of Vision

Static Testing

Continuous Development

HP Service Virtualization



- Test Cases
- Virtual Data
- Automation

DataMaker

- Find
- Allocate
- Synthesize
- Data On Demand

HP QC
HP ALM
Selenium

- Requirements
- Test Cases
- Test Data
- Defects
- Automation

Agile Boards

- Story Boards
- Work Allocation
- Work Tracking
- Story Points

Developers

Testers

- Development
- Functional
- Integration
- System Testing
- Performance
- Acceptance

Requirement <-> Traceability <-> Use Cases <-> Traceability <-> Test Case <-> Traceability <-> Defect

AGILE designer

What can Agile Designer™ do for me?

- Create clear, unambiguous, visual requirements to reduce defect creation by as much as 95%
- Quickly and simply introduce agile processes into your existing Waterfall Lifecycles
- Accurately estimate the cost of new software development and changes to existing systems
- Provide a systematic way of enforcing fixed-priced SLAs with outsource partners
- De-duplicate existing test cases to reduce the cost and length of test cycles by more than 30%
- Import existing business process workflows and automatically build the perfect set of test cases
- Generate Automation scripts for all major Automation Engines
- Link to Agile Data™ to find and make the correct test data at any point within your SDLC
- Drive Continuous Integration and Development frameworks

AGILE designer

Questions and Next Steps

If you have any questions please email: **huw.price@agile-designer.com**

Or watch our animated video to find out more about Agile Designer™:

https://www.youtube.com/watch?v=orXBrp2S614

Or download a free trial now: http://www.agile-designer.com/free-trial/

Thanks for Watching

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The *Active* Flow Chart