Tests met enen en nullen, en dan geautomatiseerd vanuit een model

toekomst of realiteit?

Introduction

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Workshop Agenda

- Introductie
- Uitleg
- Hoe maak ik een model
- Koffie
- Hoe automatiseer ik het model
- Samenvatting

Verwachtingen

- Hoog over
- Niet echt de diepte in
- We hebben maar 3 uur....

Uitleg

Model driven testing met behulp Agile Requirement Designer

Beter & Snellere samenwerking

Hoe kunnen we het ontwikkelmodel verbeteren?

Het probleem:

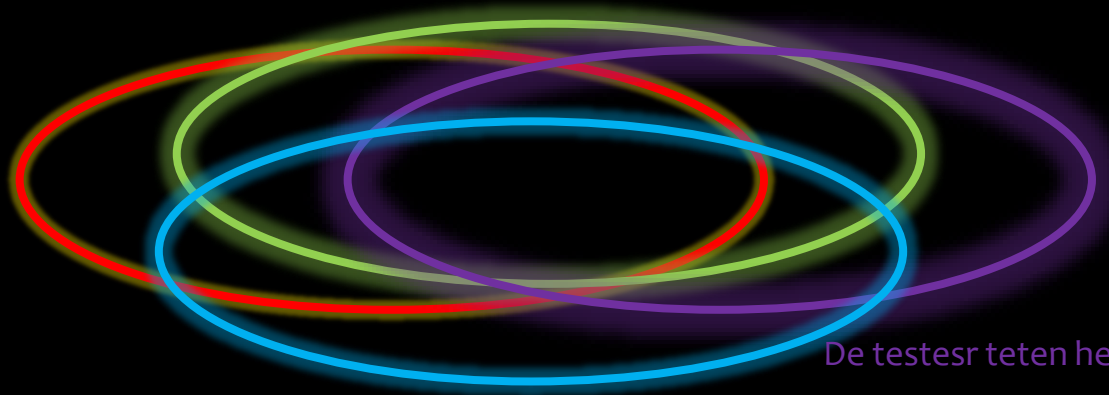
Onduidelijkheid

Gebruiker

Anslist

Programmeur

Tester



De testesr teten het programma

De gebruikers weten wat zij willen

De programmeurs schrijven code

De anslist specificeert

The Solution:

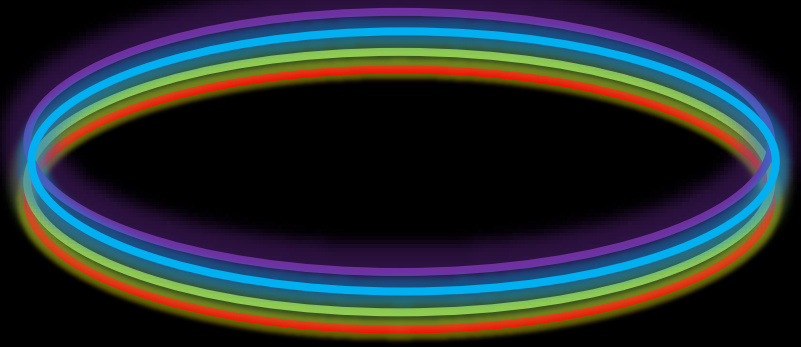
Clarity and Vision during development

Gebruiker

Analist

Programmeur

Tester



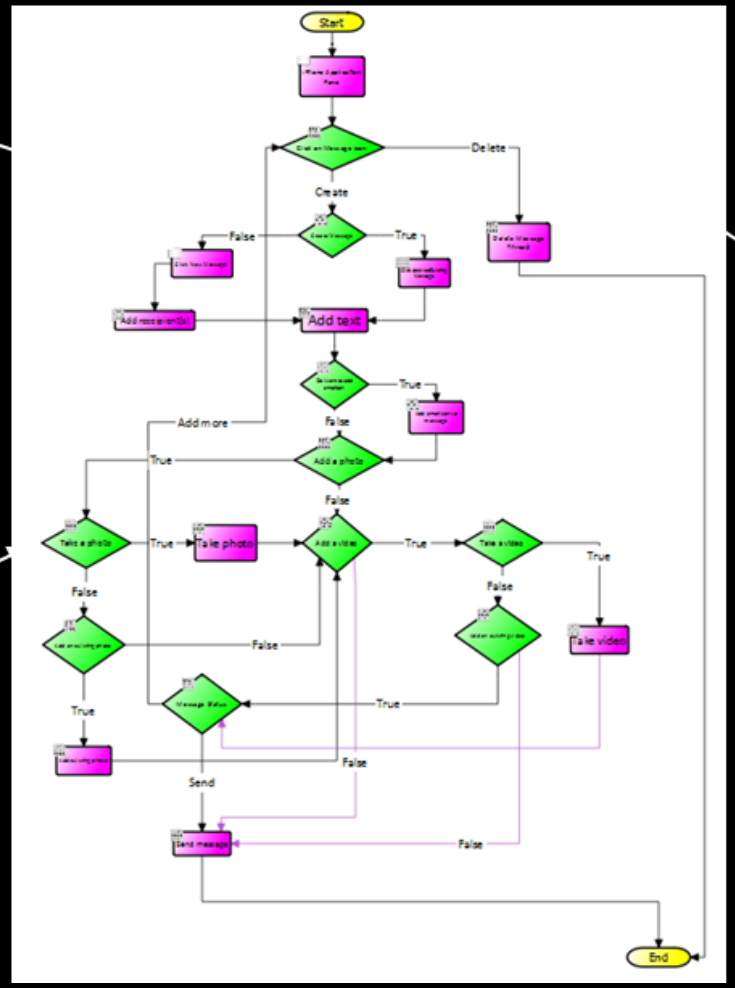
Hoe dichter bij elkaar, hoe beter het product

Minder issues… is sneller leveren

Model Driven Testing

- Product Owner
- Business Analist
- Tester

Models can be represented as flow charts.

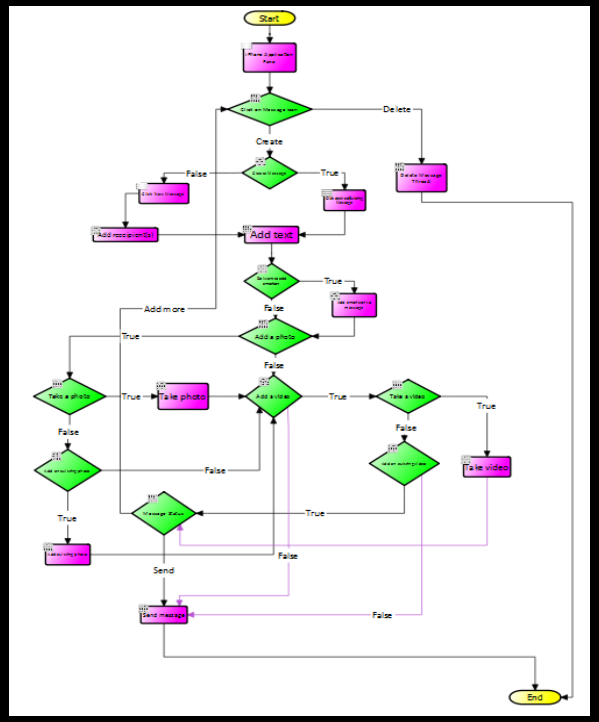


Each process defines the state of the system with transitions to other states through actions.

Start and end points of the system.

Extracting test cases

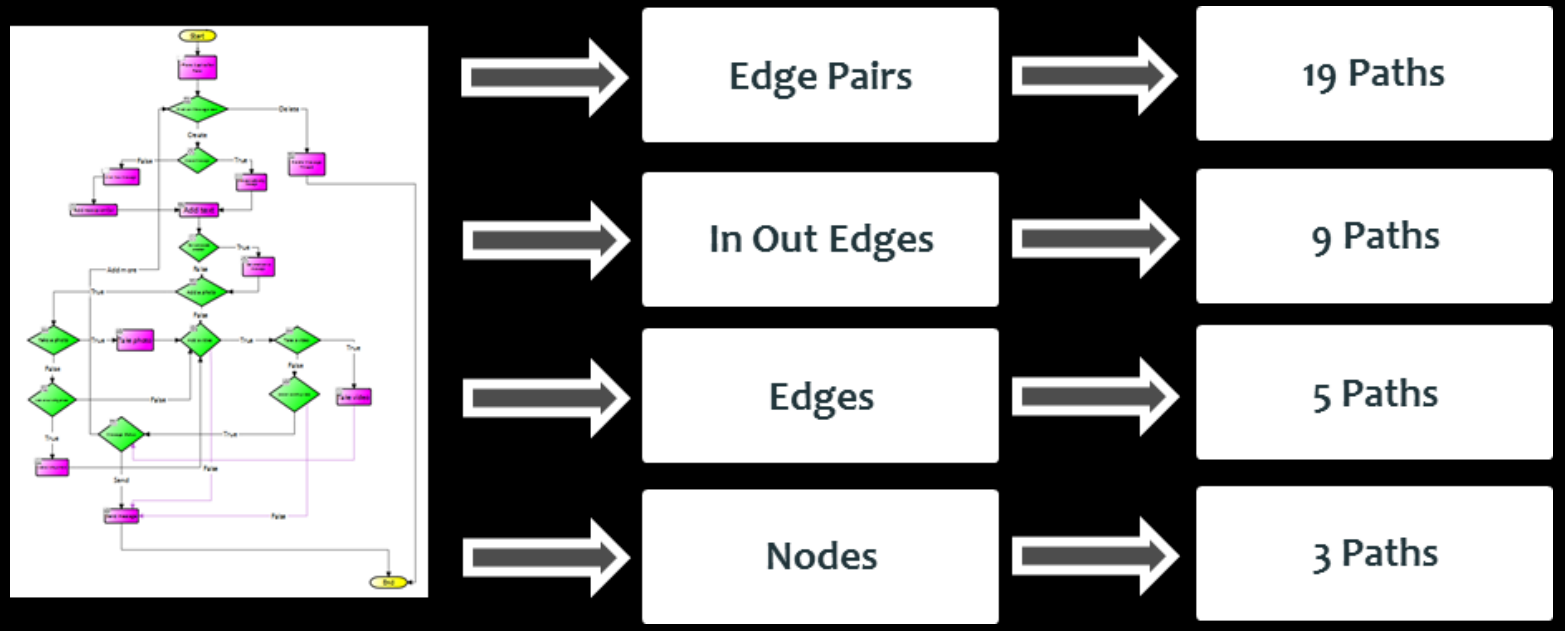
- Each path through the model represents a test case
- Because the flowchart is mathematically precise, paths can be generated automatically using algorithms



2145 Paths

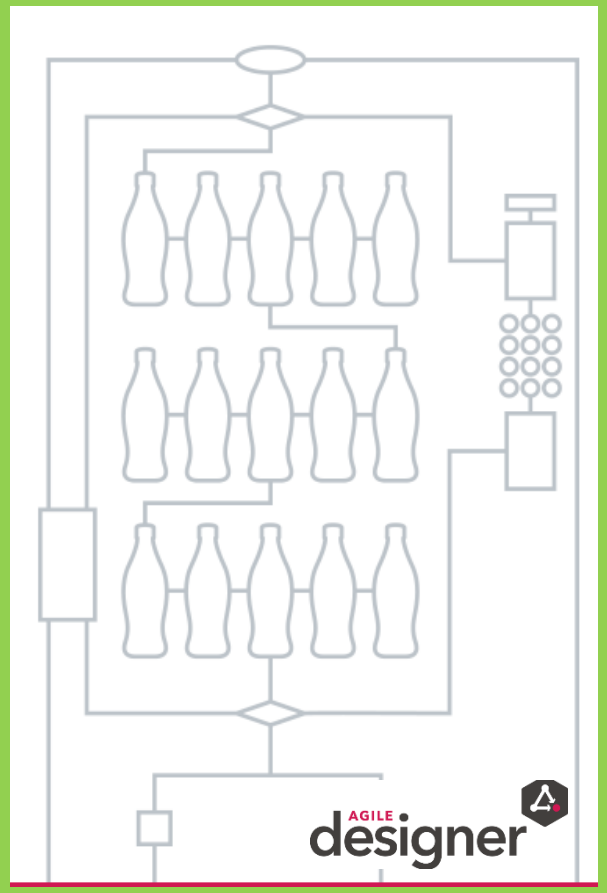
Optimization / Coverage

- Coverage: the measure of how much functionality is being covered by a set of test cases
- Combinatorics will condense the paths down while retaining coverage

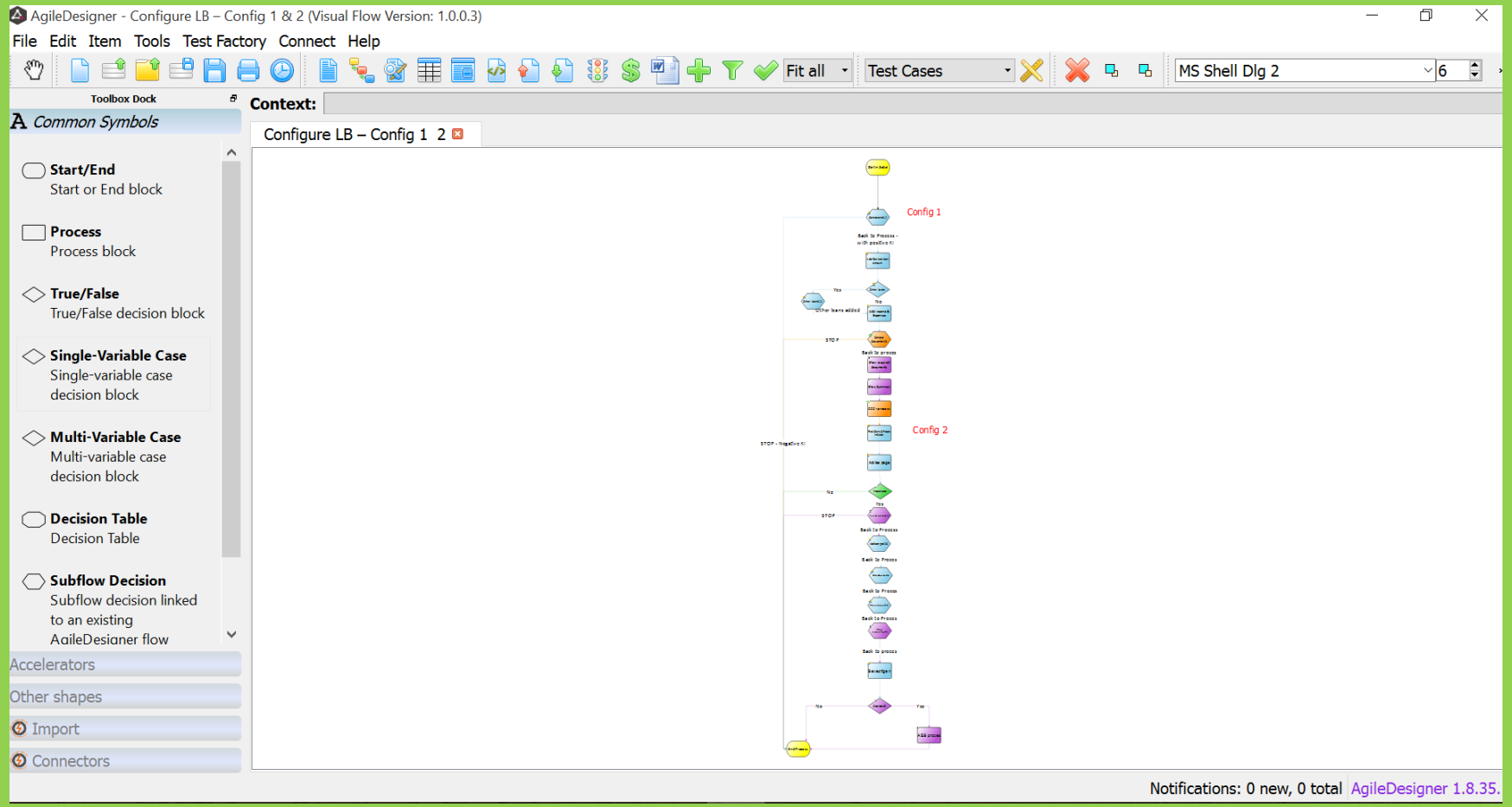


Agile Requirements Designer

- Ontwerp
- Test Ontwerp
- Test Uitvoering

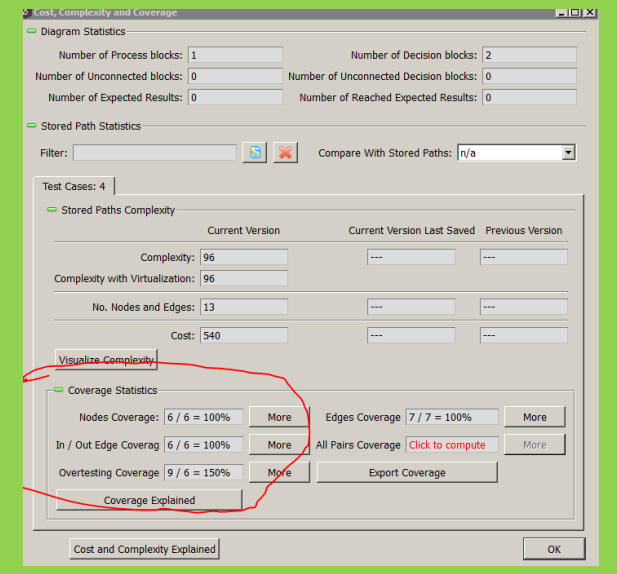


Ontwerp

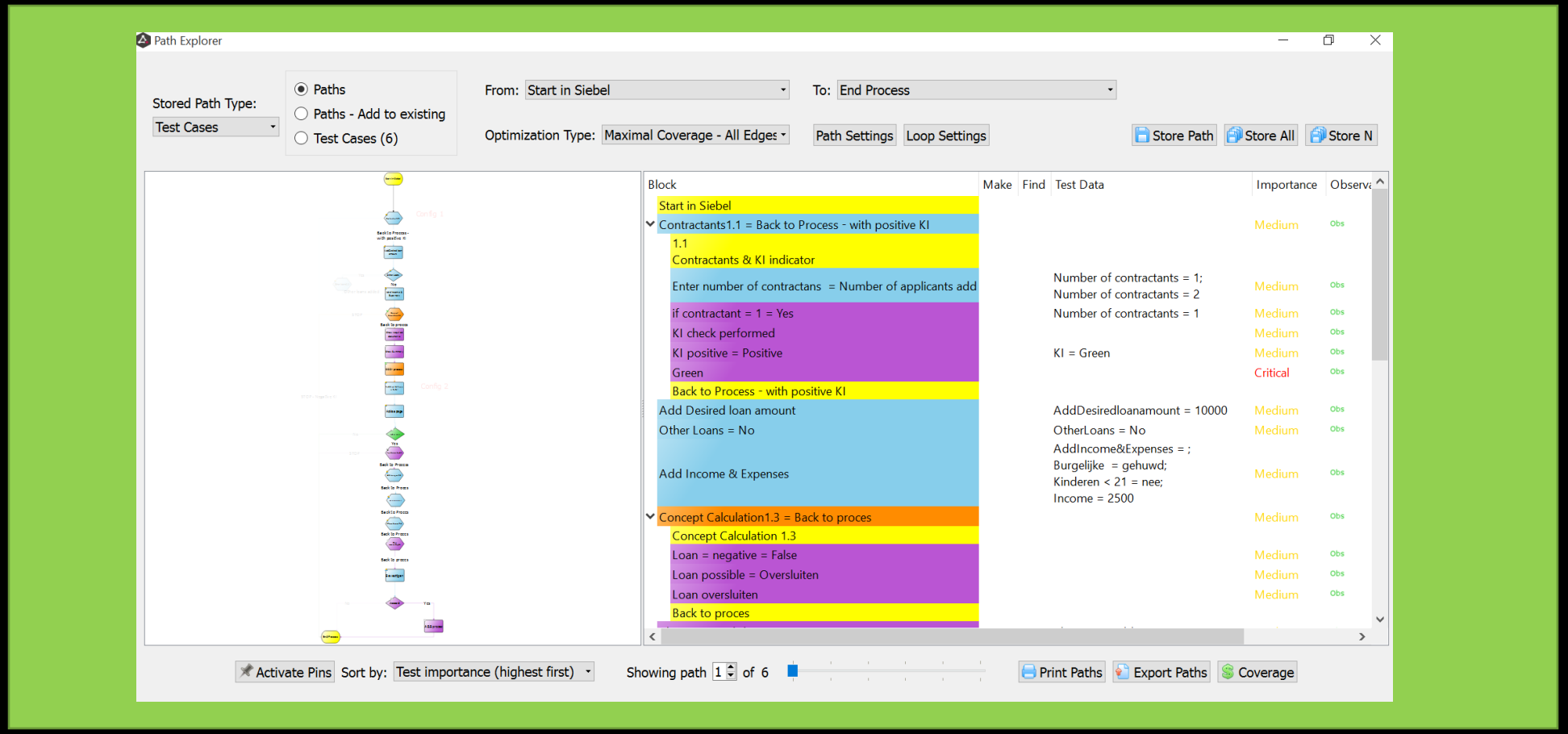

AgileDesigner - Configure LB – Config 1 & 2 (Visual Flow Version: 1.0.0.3)
File Edit Item Tools Test Factory Connect Help
Fit all
Test Cases
MS Shell Dlg 2
Toolbox Dock
Common Symbols
Start/End
Start or End block
Process
Process block
True/False
True/False decision block
Single-Variable Case
Single-variable case decision block
Multi-Variable Case
Multi-variable case decision block
Decision Table
Decision Table
Subflow Decision
Subflow decision linked to an existing AgileDesigner flow
Accelerators
Other shapes
Import
Connectors
Context:
Configure LB – Config 1 2
Config 1
Config 2
Notifications: 0 new, 0 total
AgileDesigner 1.8.35.

Features

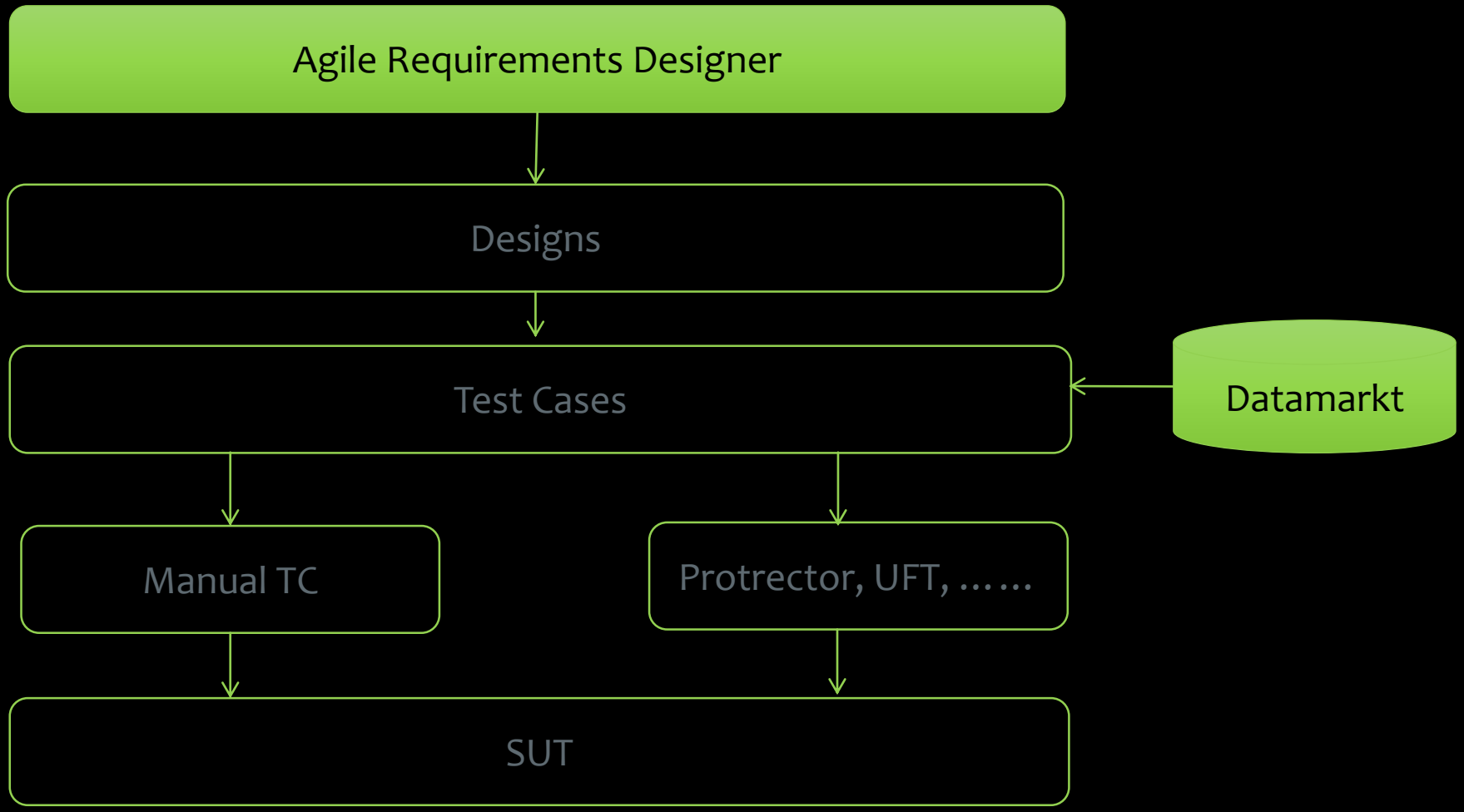
- Impact analyses
- Versiebeheer
- Coverage



Test Ontwerp



Test Uitvoering



Hoe maak ik een model

Introductie: hoe maak ik een model in Agile Requirements Designer

Praktijk case / Oefeningen / etc.

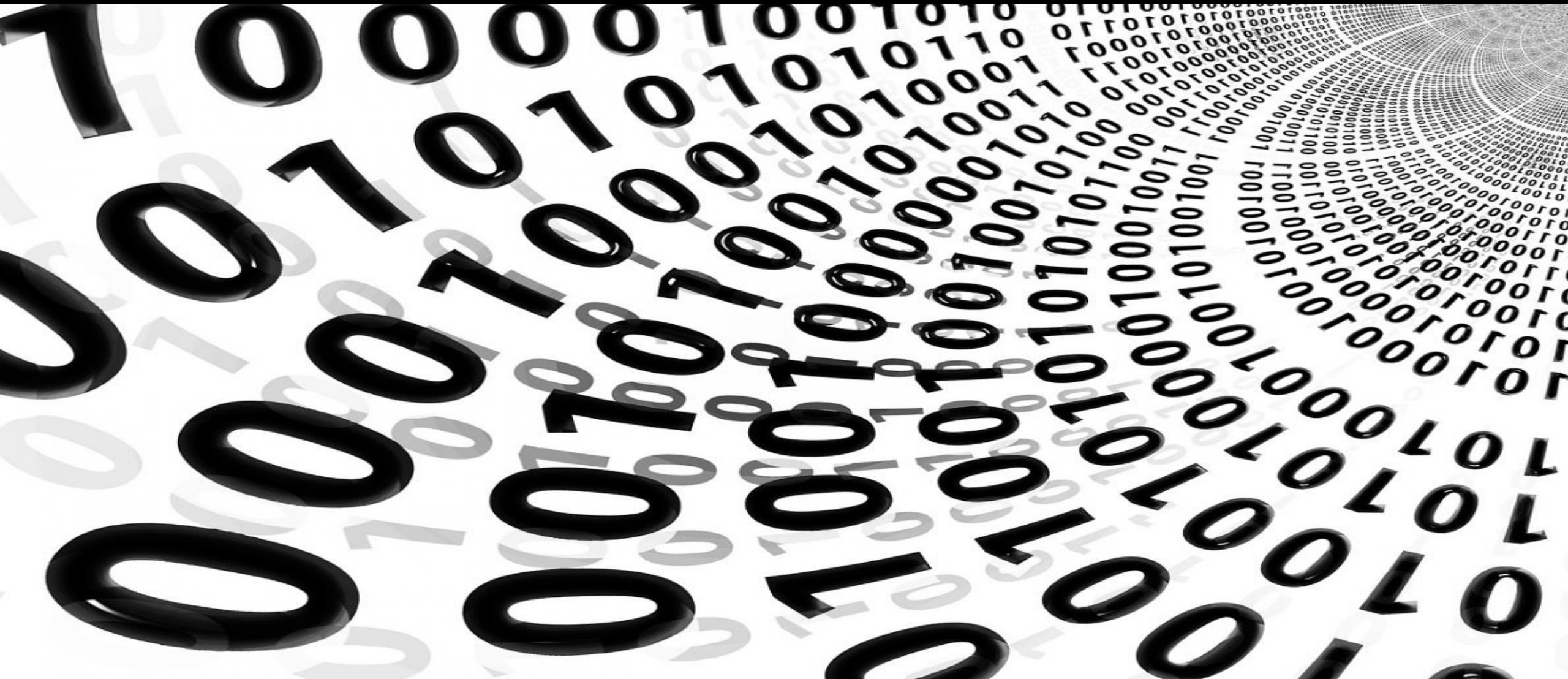
Koffie

15 minutes

Hoe automatiseer ik mijn model

Introductie: hoe ik vanuit mijn model de testscrip automatiseer, kan laten genereren.

Praktijkcase / Oefeningen / Etc.



Afsluiting

Terugblik en mogelijkheid tot stellen laatste vragen.