curiosity

Quality Modeller

## 5 Reasons to Model During Your SDLC!

Automate More, Faster and Accurately

Curiosity's Quality Modeller eliminates the most time-consuming barriers to automated testing, generating accurate scripts and data from quick-to-build models.
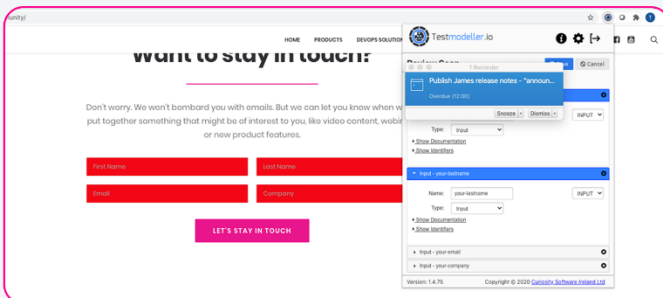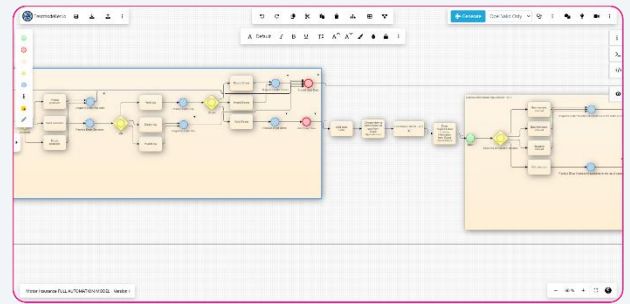

A UI scanner, test importers, and re-usable models rapidly build flowcharts of the system under test, generating test suites at the click of a button.

The flexible test generation can pick out individual tests, moving all the way up to rigorous test suites that cover every modelled "path". Each test comes equipped with valid test data, resolving generation functions and lookups as they are created.
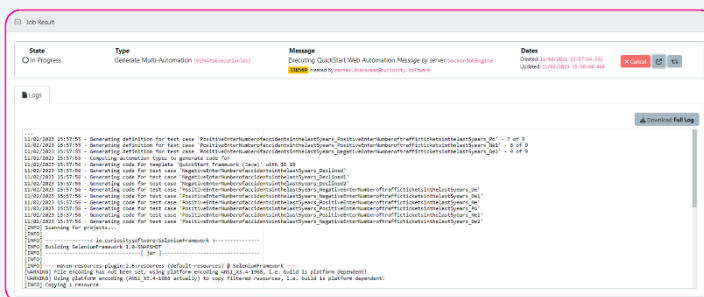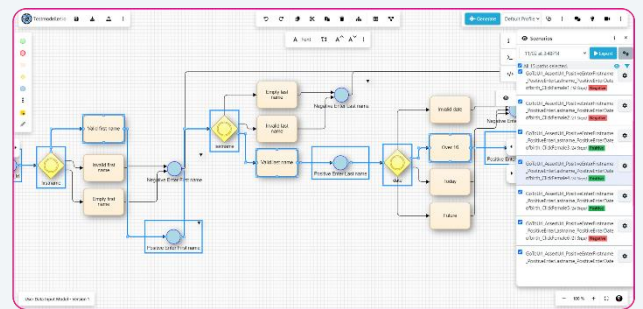

Coders and non-coders can generate tests for the most complex systems, re-using code from scripted frameworks. Engineers can feed in new code and configure code templates, allowing non-coders to automate tests from visual models.

Updating the flowcharts regenerates test suites in minutes, eliminating manual maintenance and time-consuming scripting, along with data clashes and false test failures.


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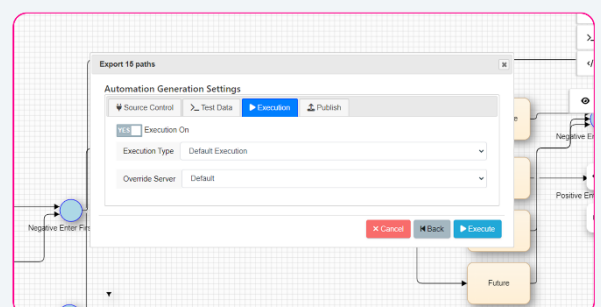
Communicate, Collaborate, Automate

With Quality Modeller, system designers, developers and QA teams collaborate from up-to-date requirements models, generating everything needed to deliver quality systems in short sprints.
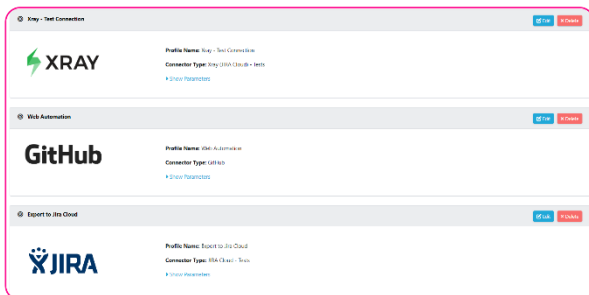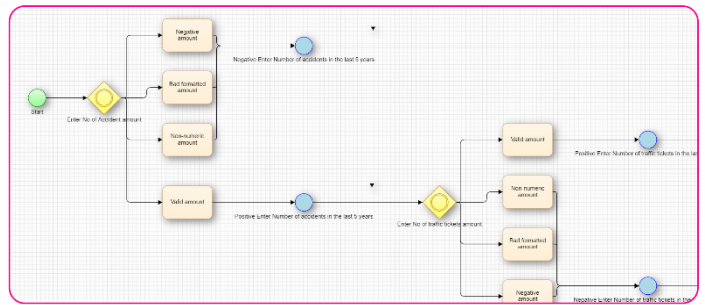

Business Analysts and Product Owners can formulate requirements in formats familiar to them, importing written user stories and diagrams to intuitive BPMN-style models.

Modelling requirements visually makes it easy to spot ambiguity and incompleteness, catching requirements defects before they create frustrating rework. QA teams and developers can provide early feedback on the logical models, performing "shift left" testing to build-in quality from day one.
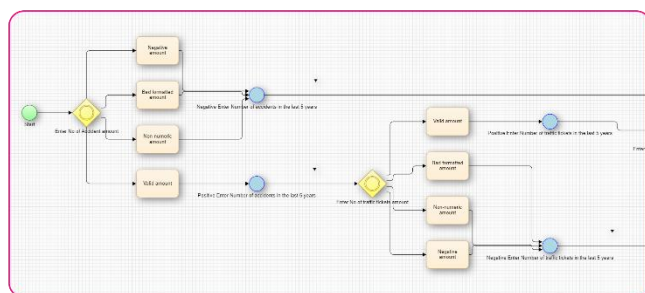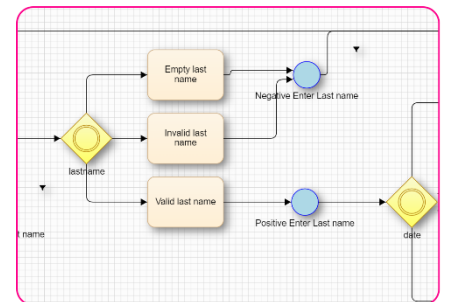

Developers can work directly from the flowcharts, which can also be exported as diagrams, written user stories and test cases. Generating Gherkin specifications likewise provides the accuracy and communication needed for effective BDD.

QA teams generate automated tests from the same models, re-generating scripts as requirements change. They can create tests before any code is written in development, working in parallel to deliver quality quickly.

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Delay-Free Data for Every Test
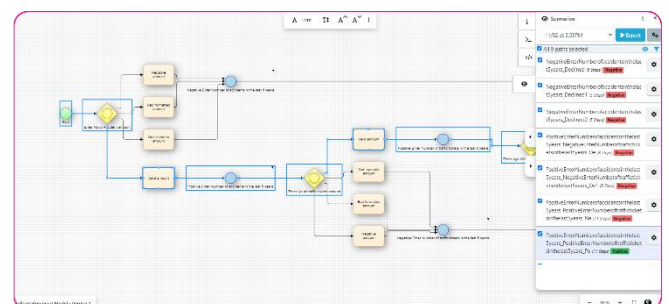
Quality Modeller provides on demand access to the data needed for rigorous and rapid testing. Data generation functions and automated lookups resolve as tests run, providing on tap data for every test.
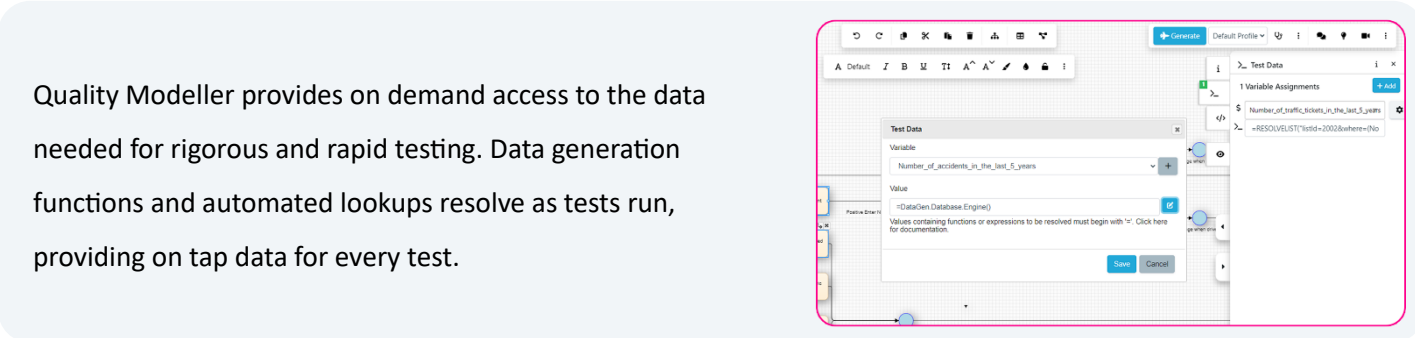
QA, developers and automation engineers can re-use automated "Find and Makes" from a central catalogue, assembling data automation jobs in visual flowcharts. Quality Modeller then generates a rigorous test suite from the model, allocating unique data combinations as tests

The "Find and Makes" hunt across back-end databases for the variables needed in testing, generating missing values to maximise test coverage. QA teams can also leverage easy-to-use, Excel-like functions, generating comprehensive data on demand.
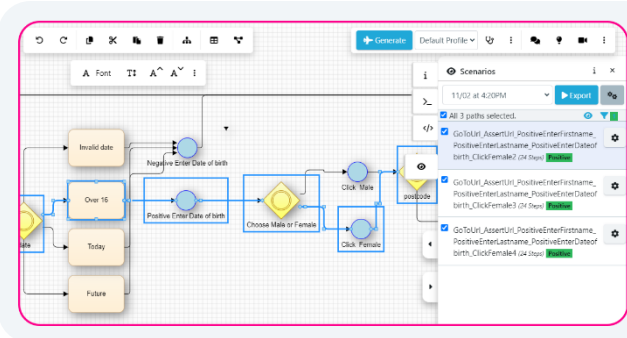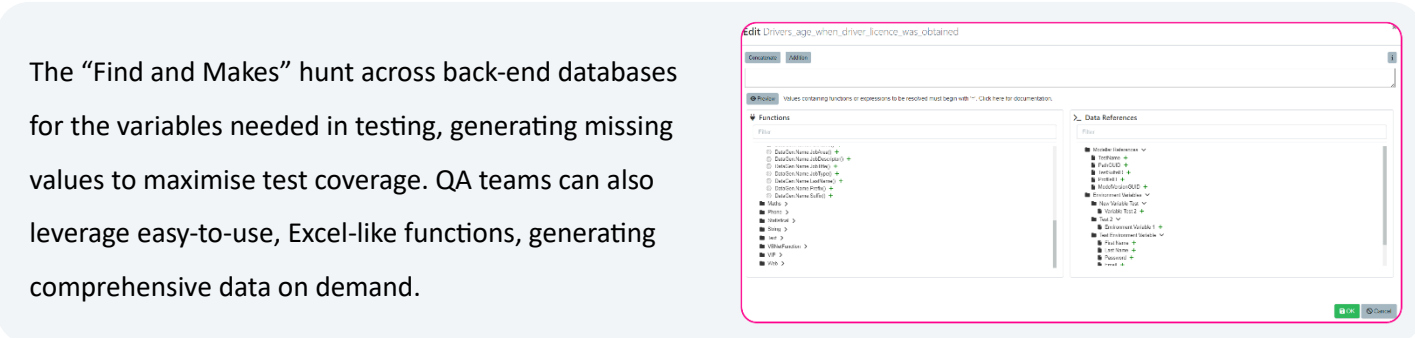

The on-the-fly data allocation validates data as it's assigned, avoiding false test failures and frustrating data clashes.

Self-service web forms further enable QA and developers to work in parallel, generating data into environments on demand. This lifts the constraints of limited data copies, cross-team competition, and unavailable system components.

The Perfect Test Cases, Built for You

Quality Modeller automatically builds the smallest set of tests with optimal test coverage, avoiding time wasted writing repetitious tests.
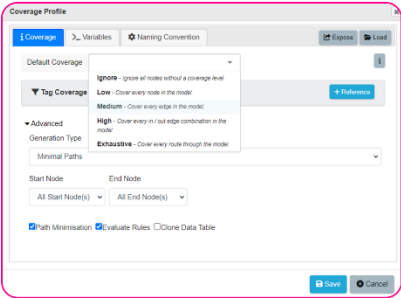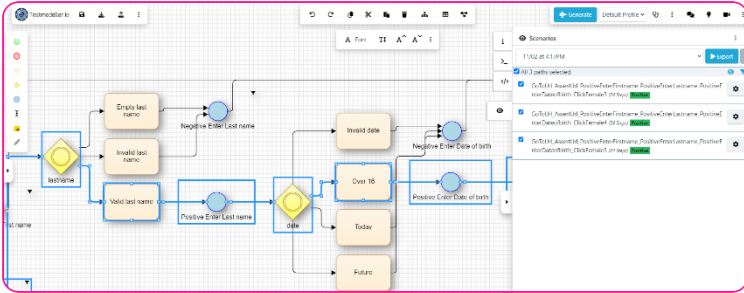

Automated test design generates the perfect test cases from flowcharts that are quick-to-build and easy-to-maintain. The optimised tests can "cover" all modelled logic, or risk-based testing can target recently changed or buggy logic to catch more bugs pre-release.

With Quality Modeller, QA teams no longer waste time creating and updating repetitive test cases in spreadsheets or ALM tools. They simply update central models, auto-populating tests across connected tooling.
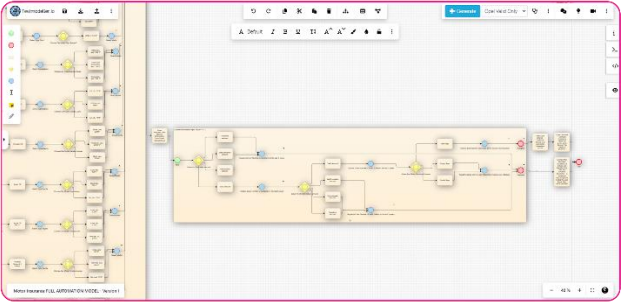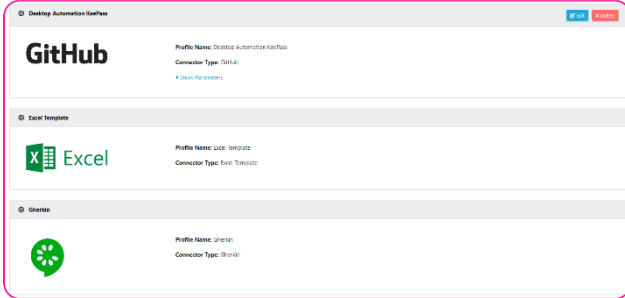

Re-usable subflows make it quick and simple to model the most complex systems, dragging-and-dropping blocks to visual flowcharts. Test generation then creates end-to-end tests with matching data, for rapid and reliable integration testing.

One click converts the tests into automation scripts, avoiding unnecessary coding and testing complex systems in short sprints.
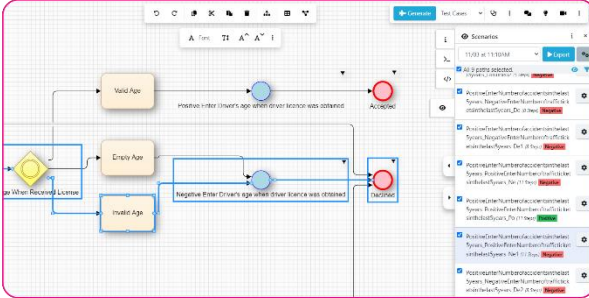
Minimise Maintenance, Test In-Sprint

Quality Modeller maintains rigorous test suites as systems and requirements change, testing fully before every release.
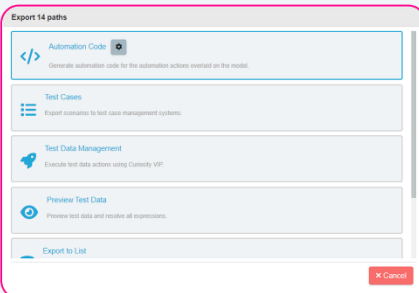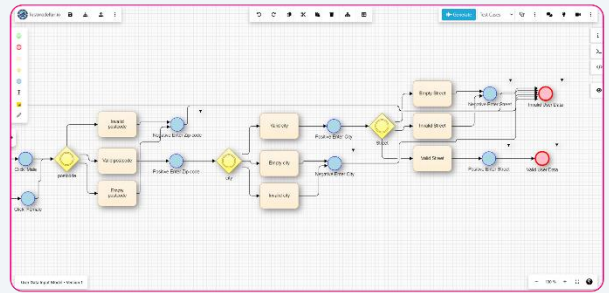

Test cases, data and automation scripts are generated from visual flowcharts, and update in tandem with the central models. Technical and business users can quickly import the latest change requests, hitting "generate" to create up-to-date tests.

Quality Modeller avoids the negative risk of system changes, providing forecasts on their impact. A change made to one model ripples across interrelated components, highlighting upstream and downstream impacts across systems.
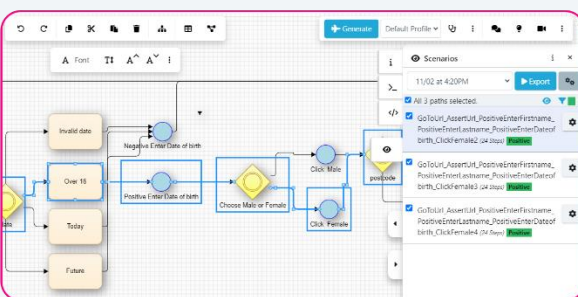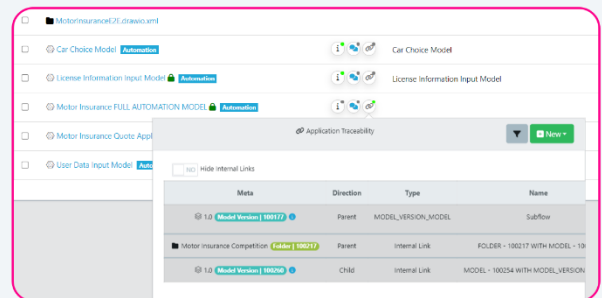
Designers can understand the complexity of a change in advance, while developers fully implement a change pre-release. Risk-based regression testing then targets functionality where bugs are most likely, catching unforeseen impacts of a change.

With Quality Modeller, QA teams no longer waste time updating test cases in ALM tools or editing vast automation code. They simply update visual models, hitting generate to commit automation to source control and CI/CD pipelines.
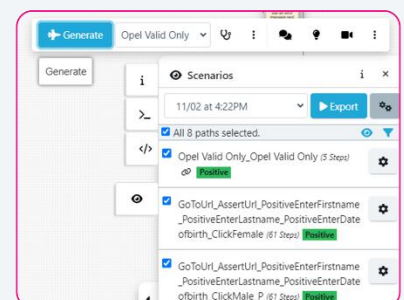
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Call USA:

+1 914 218 0180

Curiosity Software Ireland

Unit 6 The Mill, The Maltings, Bray, Co. Wicklow, A98 XV40, Ireland

Curiosity Software USA

4136 Del Ray Ave. Suite 658, Marina Del Rey, CA 90292, USA