mguchiQ

Website Tutorial

Contents

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Overview

This document describes how to interact with mguchiQ via the mguchiQ **Web Interface**.

All user input to mguchiQ (**Models** and **Runs**) is done via Excel spreadsheets which are uploaded to mguchiQ for processing.
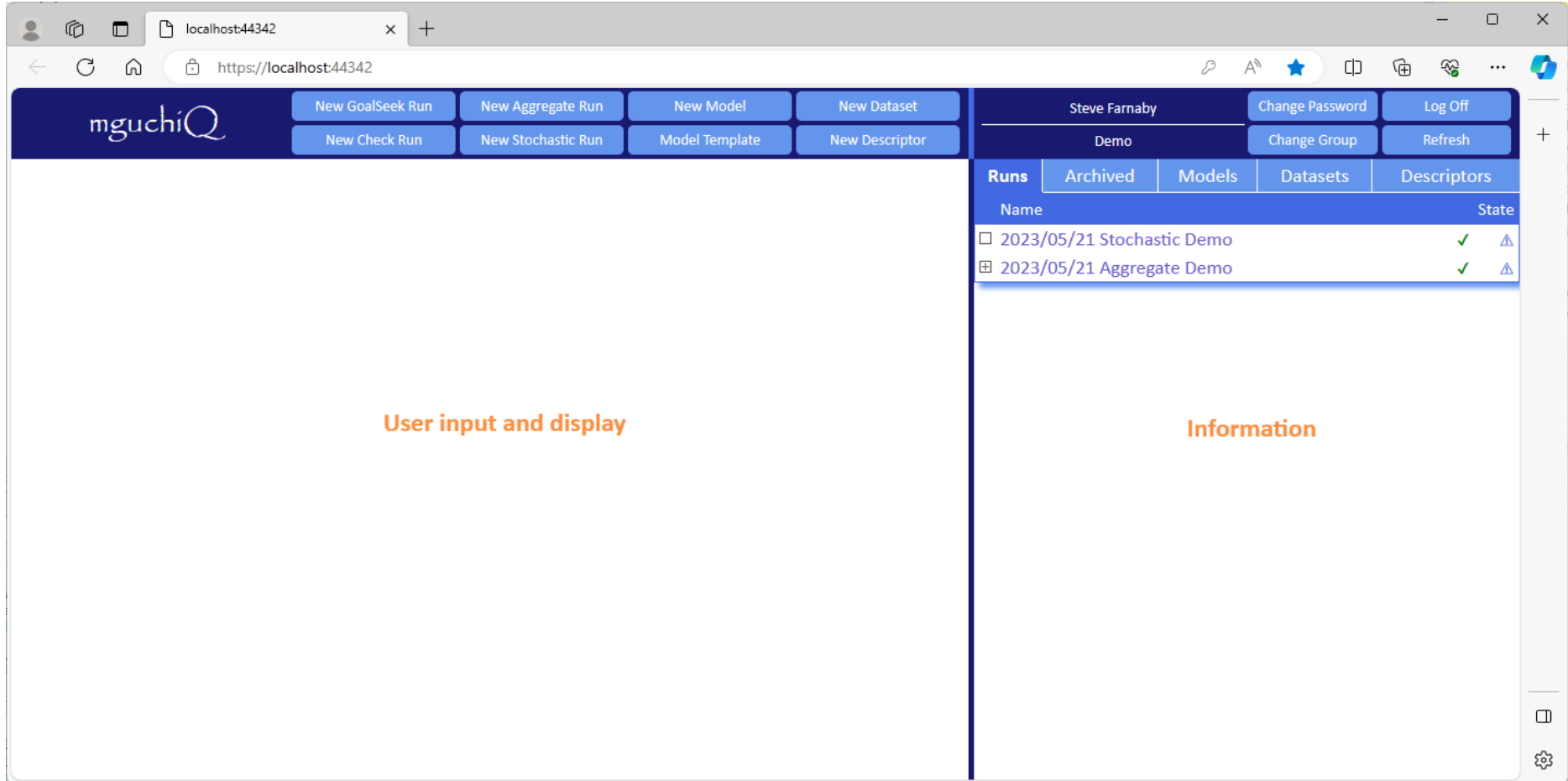
Home Page

The **Home** page of *mguchiQ* allows a **User** to log on to the *mguchiQ*. A **User Id** and **Password** is required to gain access to *mguchiQ*.

Once a **User Id** and **Password** have been entered, click on the **[Log On]** button.

Personal Page

Once logged on to mguchiQ a page with your particular information will be displayed. The different areas of the page are as described below.

Change your Password

You can change your password by clicking the **[Change Password]** button.

Changing the Group you are working in

mguchiQ users belong to **Groups**. All **Users** assigned to a **Group** have access to the same **Models** and **Runs**, thus allowing collaboration between **Users**. A **User** can have access to more than one **Group**, in which case clicking the [**Change Group**] button will allow the **User** to switch to working within another **Group**.
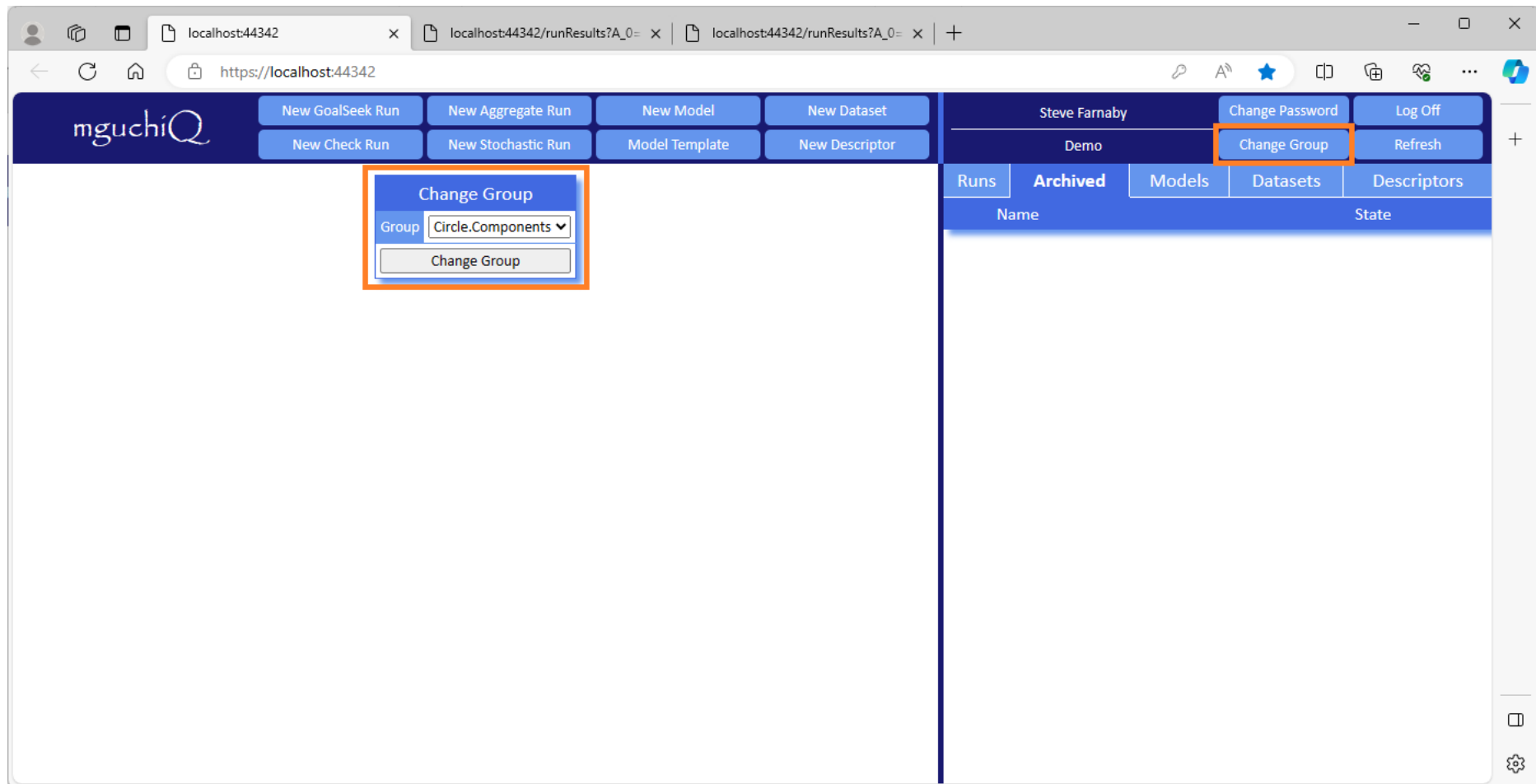
Downloading a Model Tempate

To get started with mguchiQ it is necessary to first build a **Model**. **Runs** can then be initated against this **Model**.

Clicking the **[Model Template]** button will download a **Model Template** Excel spreadsheet that you can use to specify your **Model.**
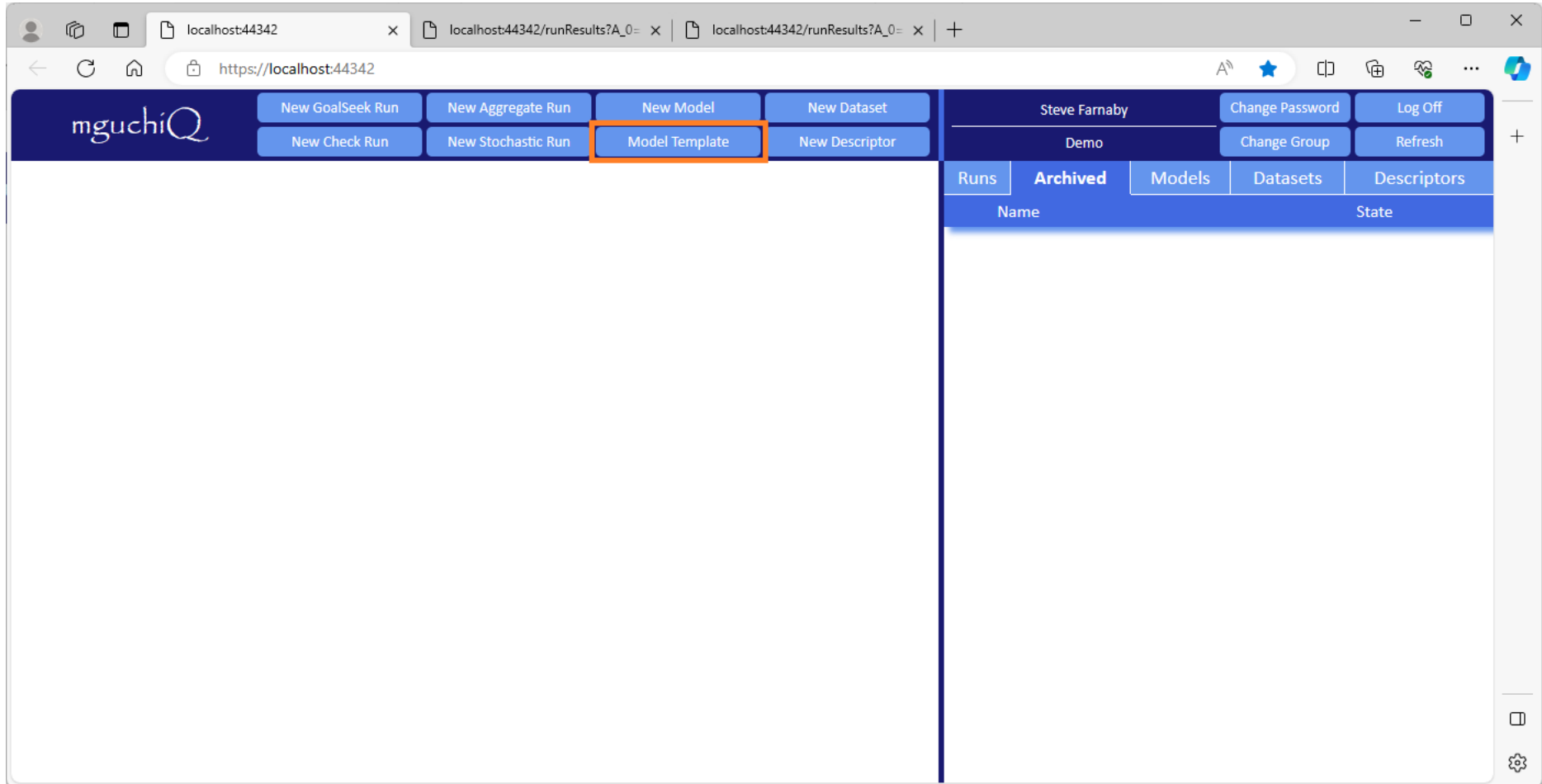
Submitting a Model

Clicking the **[New Model]** button will allow you to upload an Excel spreadsheet that contains your **Model** specification. Clicking the **[Add New Model]** button will submit your **Model** to mguchiQ so that it can be built.
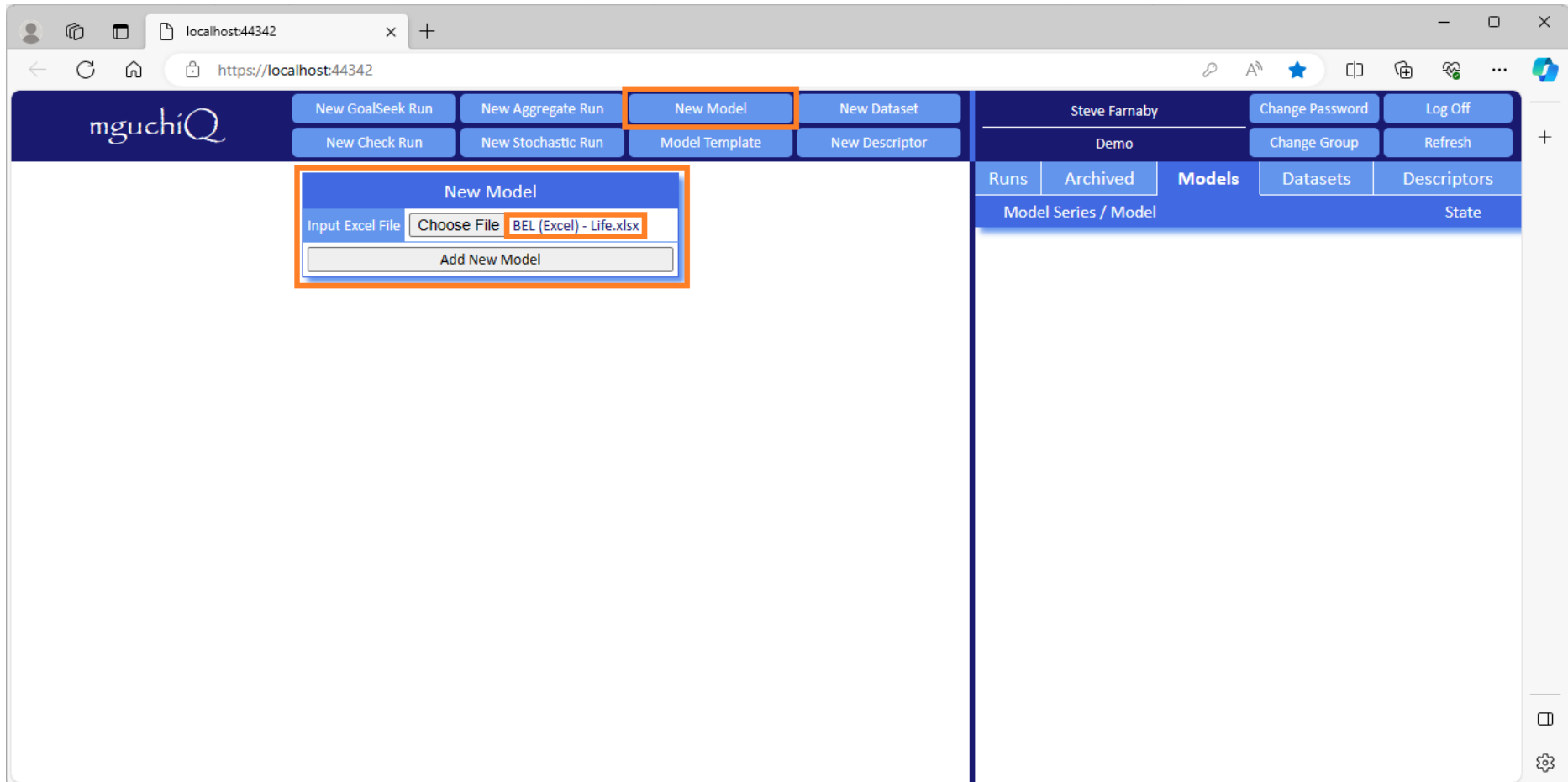
Once your model has been submitted it will appear in the **Models** section of the web page. Initially the **Model** will not be allocated to a **Series** and will not have a **State**. Once the processing engine starts processing the **Model** the **Series** and **State** will be updated.

Model Errors

If there are any errors in the **Model**, the **State** will have a red **X** indicating an error condition. The specific errors can be highlighted by clicking on the **Model** in the **Models** section.

Built Models

Once a **Model** has been successfully built it will appear in the **Models** section with a green tick ✓ next to it under the **Model Series** it was ascribed to.

We can now initiate a **Run** against this **Model**.

Model Details

Clicking on the **Model** will bring up details of that **Model**.

The Excel spreadsheet that was used to upload this **Model** can be retrieved by clicking the **Creation File**.

Model Visualization

Each of the **Products** defined in the **Model** can be visualized via an interactive graph by choosing the appropriate **Product** and clicking the **[Display Graph]** button.

This will display a visualisation of the product, as below. The different components of the **Model** (variables, functions, etc.) are coloured differently.
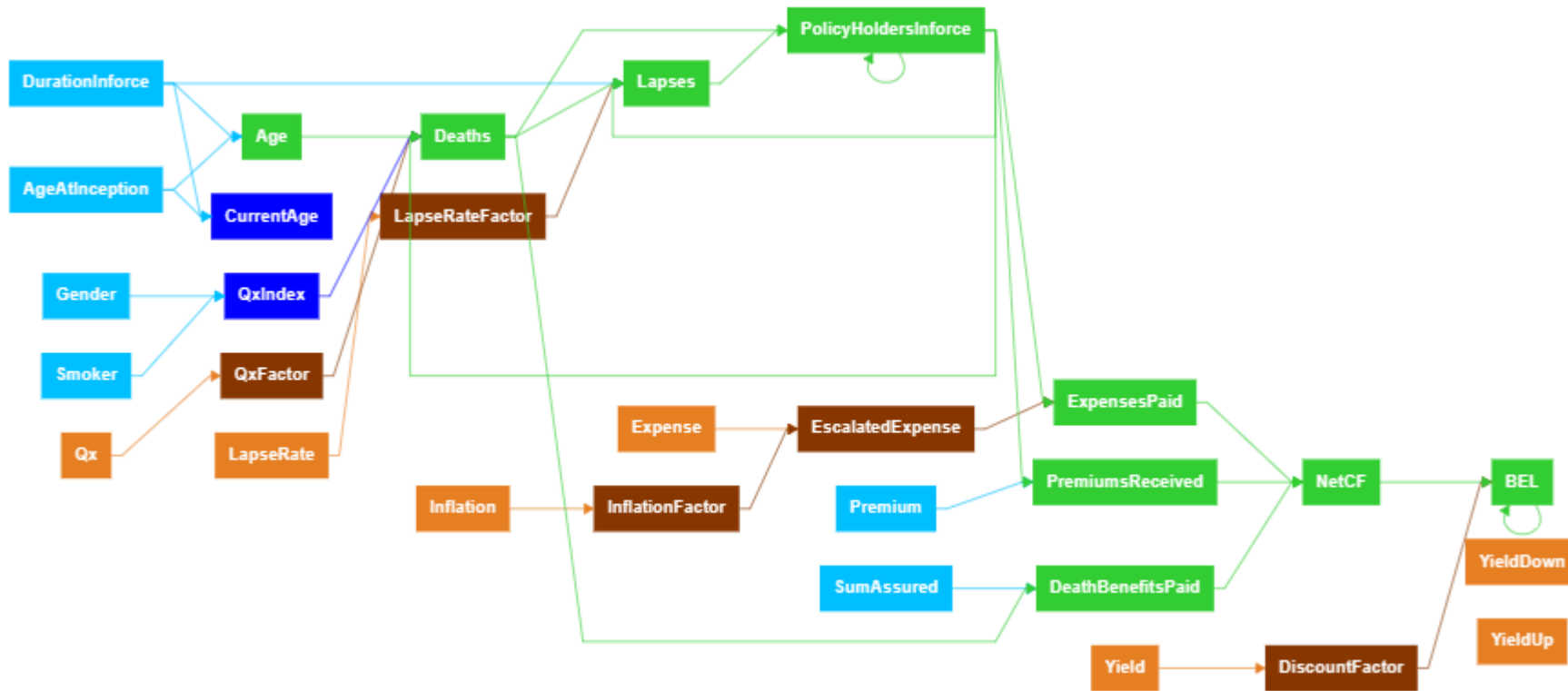
Clicking on any component of the **Model** will highlight the inputs and outputs of that component.
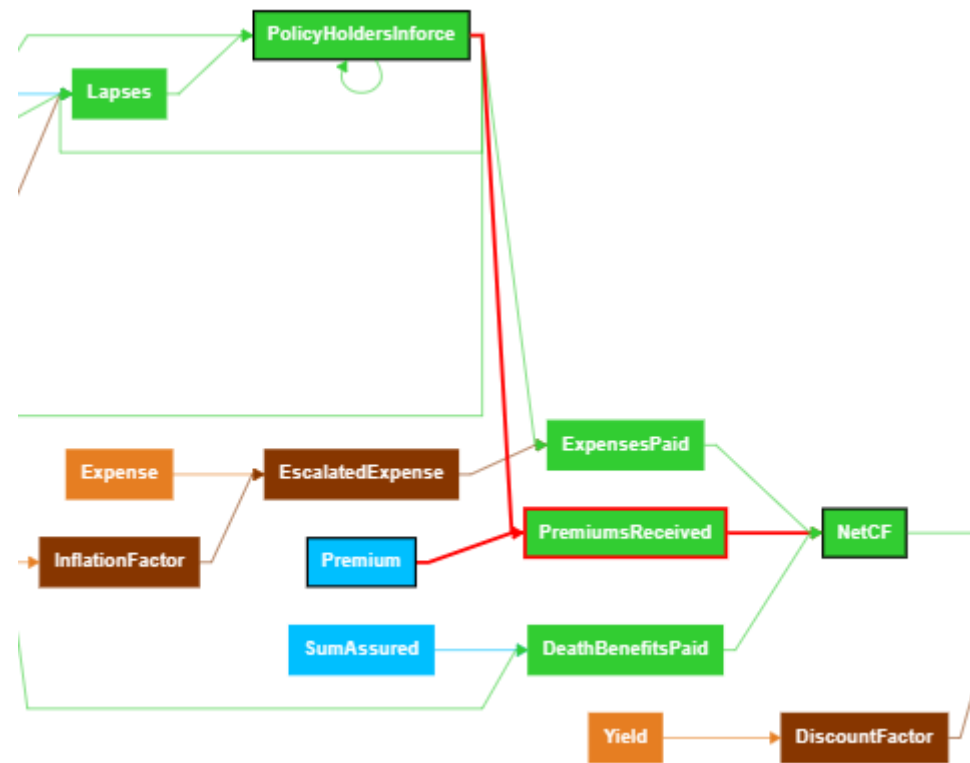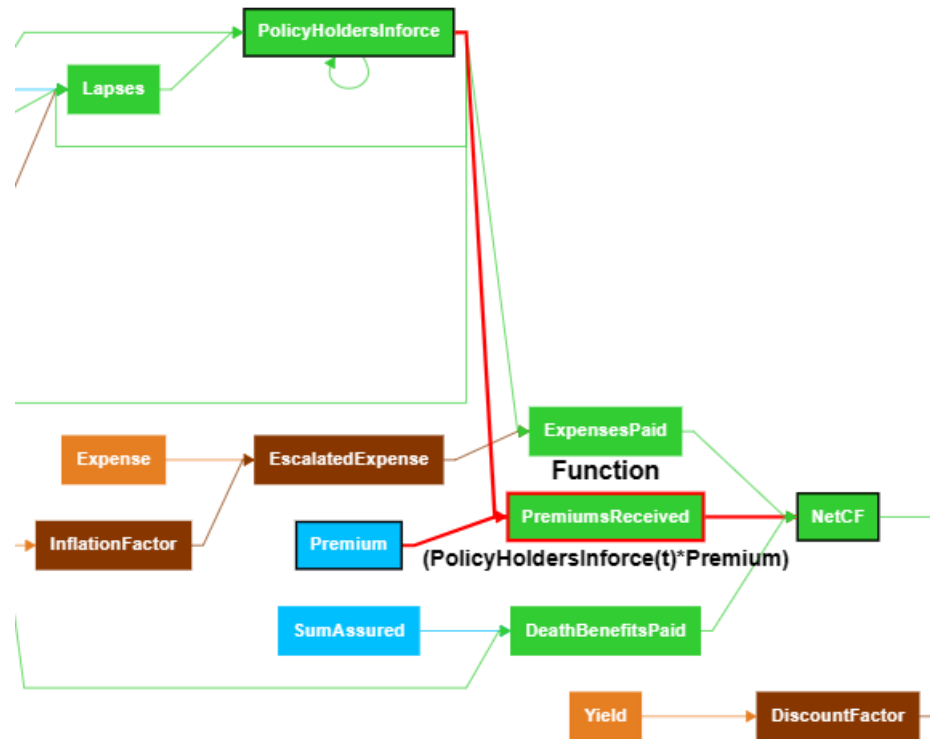
Hovering over any component of the **Model** will display more details about that component (e.g., the formula of a function).

Run Template Spreadsheets

Once we are happy with our **Model,** we can initiate a **Run** against this **Model**. The details of the **Run** are specified in an Excel spreadsheet which is then uploaded to mguchiQ for processing.

Templates are provided for the different **Run** types

Submitting a Run

Clicking any of the **[New Run]** buttons will allow you to upload an Excel spreadsheet that contains your **Run** details. Clicking the **[Add New Run]** button will submit your **Run** to mguchiQ for processing. Below we have chosen to add a new **Aggregate Run**.

Once submitted, the **Run** will appear in the **Runs** section of the web page. Initially the **Run** will not be have a **State**. Once the processing engine starts processing the **Run** the **State** will be updated.

Run Errors

If there are any errors in the **Run**, the **State** will have a red **X** indicating an error condition. The specific errors can be highlighted by clicking on the **Run** in the **Runs** section.

Completed Runs

Once a **Run** has been successfully calculated it will appear in the **Runs** section with a green tick ✓next to it.

Run Details

Clicking on the **Run** will bring up details of that **Run**.

Run Partitions

When a **Run** is set up it may be broken up into several **Partitions** so that the processing of the **Run** can be shared over a number of computing machines. The details of the **Partitions** are displayed on the **Run details** page and can be interrogated further by clicking on the appropriate **Partition No**.

This will give details of the **Run Partition** as follows:

Partition

Details	
Name	Aggregate All Demo.1
Short Name	1
Priority	Low
Machine	STEVE-DELL5531
State	Completed

Times	
Started Calculating	23/01/2024 2:40:20 pm
Finished Calculating	23/01/2024 2:40:21 pm
Started Saving	23/01/2024 2:40:21 pm
Finished Saving	23/01/2024 2:40:22 pm
Calculation Time	00:00:01.6
Saving Time	00:00:00.9
Total Time	00:00:02.6

Records	
Total	10
Excluded	(%)
Included	10 (100%)

Run Results

You can choose the different options you would like returned in the result set. All results can be displayed in either the **web browser** or downloaded to **Excel**. The **Run Results** parameters offered are specific to the **Model** of the **Run**.

Depending on the options chosen, the returned results will have a number of corresponding tabs at the bottom to scroll through the different result sets. Web browser results are as follows:

Excel results are as follows:

T	BEL	DeathBenefitsPaid	Deaths	ExpensesPaid	Lapses	NetCF	PolicyHoldersInforce	PremiumsReceived
1	-11,791.55	925.09	0.00	50.00	0.15	800.91	10.00	1,776.00
2	-12,643.77	914.08	0.00	49.45	0.14	783.37	9.85	1,746.90
3	-13,482.33	912.78	0.00	48.92	0.14	756.61	9.70	1,718.31
4	-14,297.99	898.38	0.00	48.39	0.13	743.43	9.56	1,690.20
5	-15,104.33	886.58	0.00	47.90	0.13	730.06	9.42	1,664.54
6	-15,901.20	874.07	0.00	47.41	0.13	717.82	9.29	1,639.30
7	-16,689.73	863.72	0.00	46.94	0.12	703.80	9.16	1,614.45
8	-17,468.17	867.16	0.00	46.50	0.12	676.56	9.04	1,590.22
9	-18,223.25	854.46	0.00	46.07	0.11	665.84	8.92	1,566.37
10	-18,971.52	843.07	0.00	45.67	0.11	656.56	8.81	1,545.30
11	-19,714.43	836.53	0.00	45.28	0.11	642.71	8.69	1,524.52
12	-20,447.44	873.49	0.00	44.89	0.10	585.65	8.59	1,504.02
13	-21,127.14	862.14	0.00	44.54	0.10	577.97	8.48	1,484.65
14	-21,802.89	856.01	0.00	44.20	0.09	567.38	8.39	1,467.59
15	-22,471.78	859.00	0.00	43.87	0.09	547.86	8.29	1,450.74
16	-23,124.87	849.59	0.00	43.56	0.09	541.20	8.20	1,434.35
17	-23,775.02	841.64	0.00	43.25	0.09	533.27	8.11	1,418.16
18	-24,421.01	832.90	0.00	42.94	0.08	526.30	8.01	1,402.15
19	-25,063.81	826.29	0.00	42.65	0.08	517.57	7.93	1,386.51
20	-25,701.69	832.61	0.00	42.37	0.08	496.06	7.84	1,371.04
21	-26,321.81	823.63	0.00	42.10	0.08	490.25	7.76	1,355.98
22	-26,939.92	814.75	0.00	41.83	0.08	484.51	7.68	1,341.09

Sheet tabs: All (Base) | Juniors (Base) | All (ShockExpense-d) | Juniors (ShockExpense-d)

Run Results – Sub Results

If extra results details were specified when initiating a **Run**, then these extra result sets can be accessed by expanding the **Run** results as follows: