aidadoc Documentation

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CHAPTER 1

What is Aida

Aida is a Functional testing suite which is best suited for practically every type of application testing.

Thanks to the perfect integration with robotframework, through aida it is possible to carry out virtually any testing activity; The suite in addition offers its users the possibility to create and distribute test templates, schedule and repeat cyclical executions, manage the access levels of main features based on the type of user you are creating and much more.

Aida test suite is a SaaS distribution therefore does not have hardware or software specification limits and is one of the most popular testing tool available in the market.

CHAPTER 2

Start with Aida

Aida was prouded developed by:

2.1 Subscription plans

Aida test suite can be used with two convenient payment plans, depending on your business needs you can choose between a pay-as-you-go rate based only on live test run time or a fixed all-inclusive monthly fee. Whatever rate is chosen the first 30 days of use are free.

2.1.1 ONDemand subscription

The ondemand aida plan provides for the use of all the functions of aida without any kind of restriction on traffic, user licenses or any other aspect related to the functionality of the product. The pay is provided only for the actual time of use of the aida's test engine, and specifically € 0.49 per hour of running/active tests.

2.1.2 FLAT Rate subscription

The FLAT option of the aida payment plan provides for the unlimited use of all the functions of aida including those related to the execution of tests without requiring any payment on consumption. The FLAT plan has a cost of € 149 / month which includes unlimited use of the suite and its test engine.

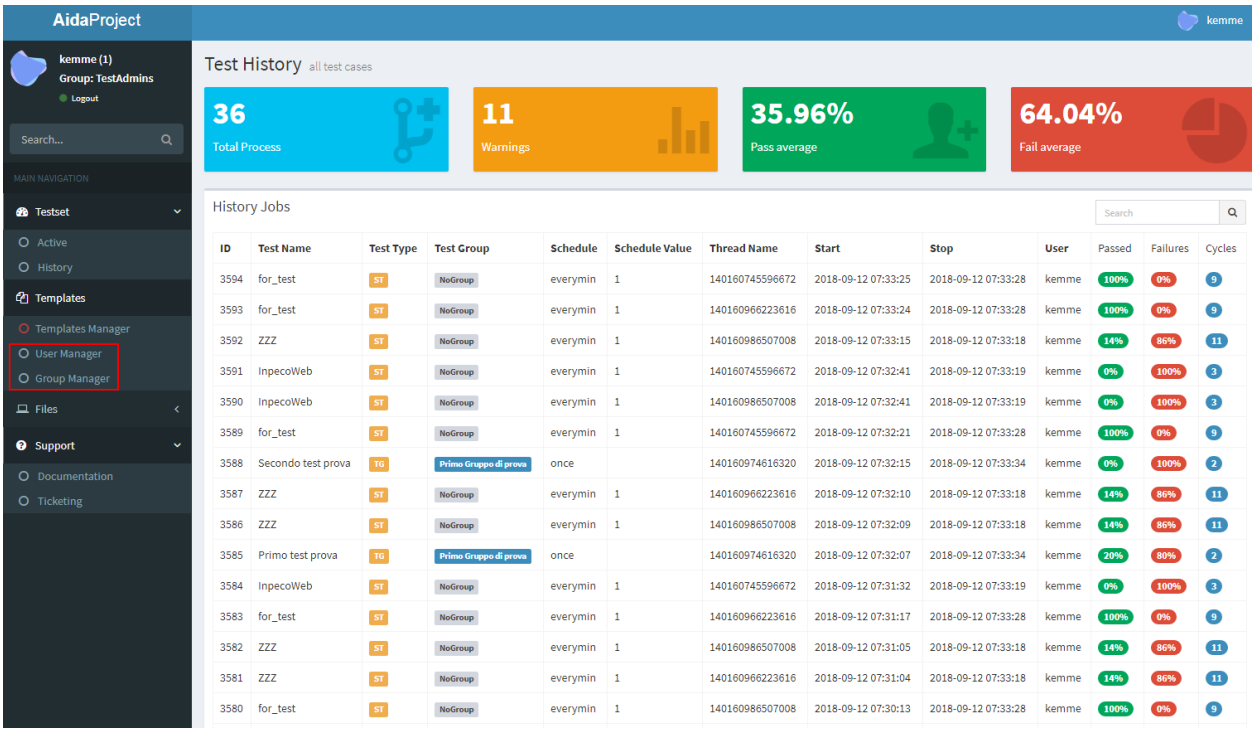
CHAPTER 3

Create user and manage groups

In Aida, the group is a grouping of actions that the user associated with that group can perform within the system. Basically the types of action that can be associated with a group are:

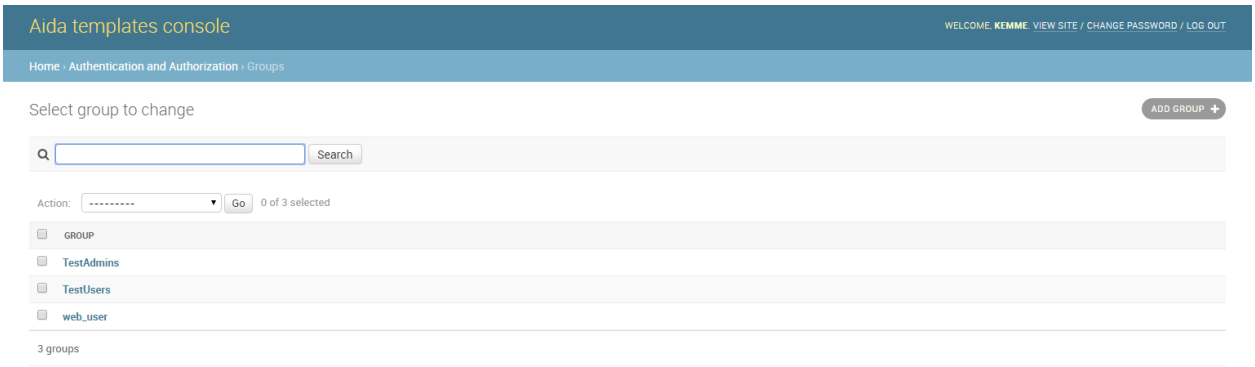
- **View**
- **Add/Edit**
- **Delete**

To define and manage groups in Aida, it is sufficient to use the **Users and Groups-> Group Manager** menu



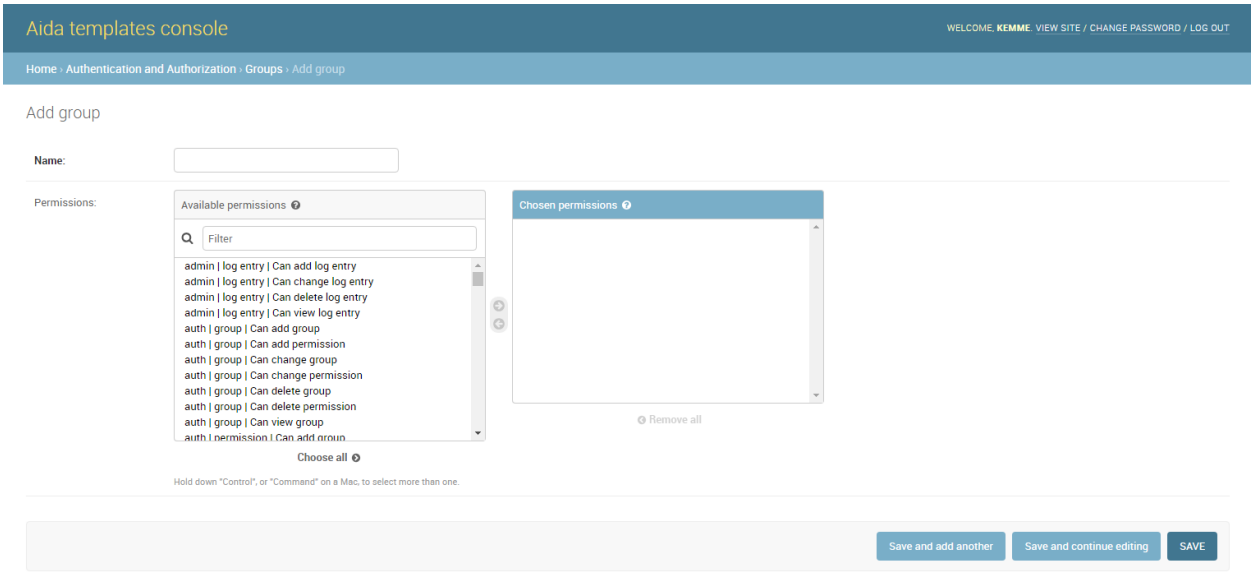
ID	Test Name	Test Type	Test Group	Schedule	Schedule Value	Thread Name	Start	Stop	User	Passed	Failures	Cycles
3594	for_test	ST	NoGroup	everymin	1	140160745596672	2018-09-12 07:33:25	2018-09-12 07:33:28	kemme	100%	0%	9
3593	for_test	ST	NoGroup	everymin	1	140160966223616	2018-09-12 07:33:24	2018-09-12 07:33:28	kemme	100%	0%	9
3592	ZZZ	ST	NoGroup	everymin	1	140160986507008	2018-09-12 07:33:15	2018-09-12 07:33:18	kemme	14%	86%	11
3591	InpecoWeb	ST	NoGroup	everymin	1	140160745596672	2018-09-12 07:32:41	2018-09-12 07:33:19	kemme	0%	100%	3
3590	InpecoWeb	ST	NoGroup	everymin	1	140160986507008	2018-09-12 07:32:41	2018-09-12 07:33:19	kemme	0%	100%	3
3589	for_test	ST	NoGroup	everymin	1	140160745596672	2018-09-12 07:32:21	2018-09-12 07:33:28	kemme	100%	0%	9
3588	Secondo test prova	TG	Primo Gruppo di prova	once		140160974616320	2018-09-12 07:32:15	2018-09-12 07:33:34	kemme	0%	100%	2
3587	ZZZ	ST	NoGroup	everymin	1	140160966223616	2018-09-12 07:32:10	2018-09-12 07:33:18	kemme	14%	86%	11
3586	ZZZ	ST	NoGroup	everymin	1	140160986507008	2018-09-12 07:32:09	2018-09-12 07:33:18	kemme	14%	86%	11
3585	Primo test prova	TG	Primo Gruppo di prova	once		140160974616320	2018-09-12 07:32:07	2018-09-12 07:33:34	kemme	20%	80%	2
3584	InpecoWeb	ST	NoGroup	everymin	1	140160745596672	2018-09-12 07:31:32	2018-09-12 07:33:19	kemme	0%	100%	3
3583	for_test	ST	NoGroup	everymin	1	140160966223616	2018-09-12 07:31:17	2018-09-12 07:33:28	kemme	100%	0%	9
3582	ZZZ	ST	NoGroup	everymin	1	140160986507008	2018-09-12 07:31:05	2018-09-12 07:33:18	kemme	14%	86%	11
3581	ZZZ	ST	NoGroup	everymin	1	140160966223616	2018-09-12 07:31:04	2018-09-12 07:33:18	kemme	14%	86%	11
3580	for_test	ST	NoGroup	everymin	1	140160986507008	2018-09-12 07:30:13	2018-09-12 07:33:28	kemme	100%	0%	9

Once you have access to group management from the main menu, the administration screen will show the list of active groups in the system:



3.1 Create a new group

To create a new group of users is sufficient, from the group management screen just opened select the "ADD GROUP" button, the mask to add a new group will appear:



- **Name** :Name that you want give to the new group (unique)
- **Available permissions** :Permissions that can be provided or denied on the various system tables
- **Chosen permission** :Permits that have been assigned to the group we are creating

---

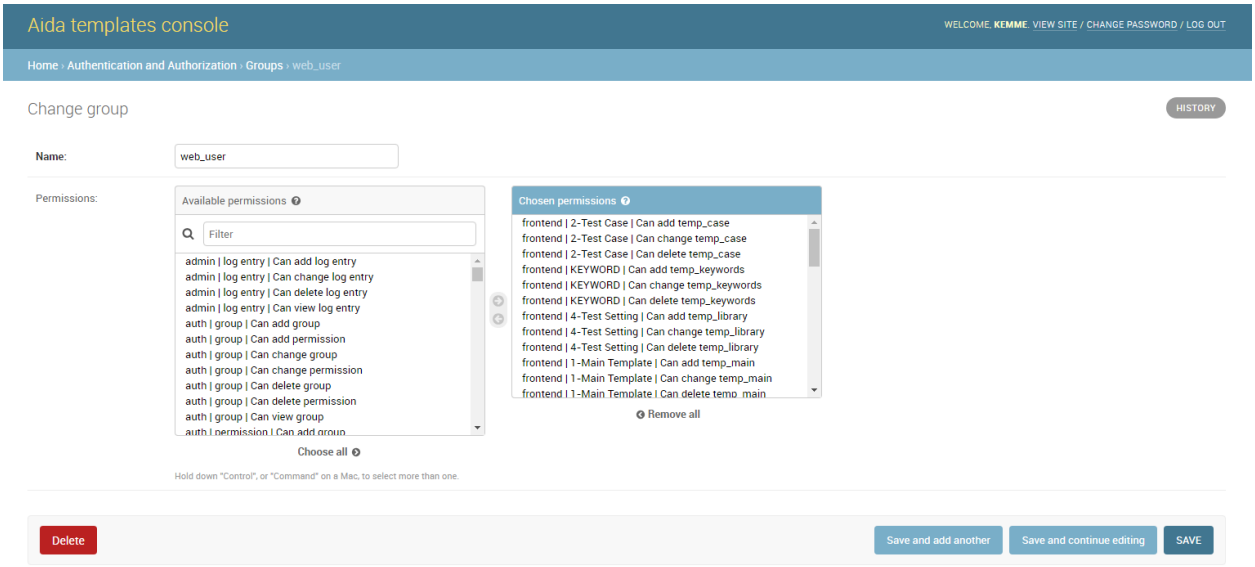
Note: Within all Aida administration forms, there are three buttons to confirm the changes you want to make:

- **Save and add another** :It saves the data entered, and proposes the same cleaned mask in order to quickly perform a new data entry. (in some masks, once this option is selected, the system will re-propose some pre-filled fields to guarantee insertion speed)

- **Save and continue editing** :Save the entered data and re-propose the mask with the same data inside the various fields present before the saving
- **SAVE** :Save the entered data and return to the list of options previous to the current mask.

3.2 Manage an existing group

To go to manage an existing group, and sufficient, from the main group management page, select the group on which you intend to work, the following screen will appear:



The mask is similar to that for adding a new group seen before, with the difference that in the **Chosen permissions** section there are the previously assigned permissions.

Note: In all the editing templates of Aida there is the possibility to see the history of the changes made on the data that are being managed through the use of the ** HISTORY ** button located at the top right.

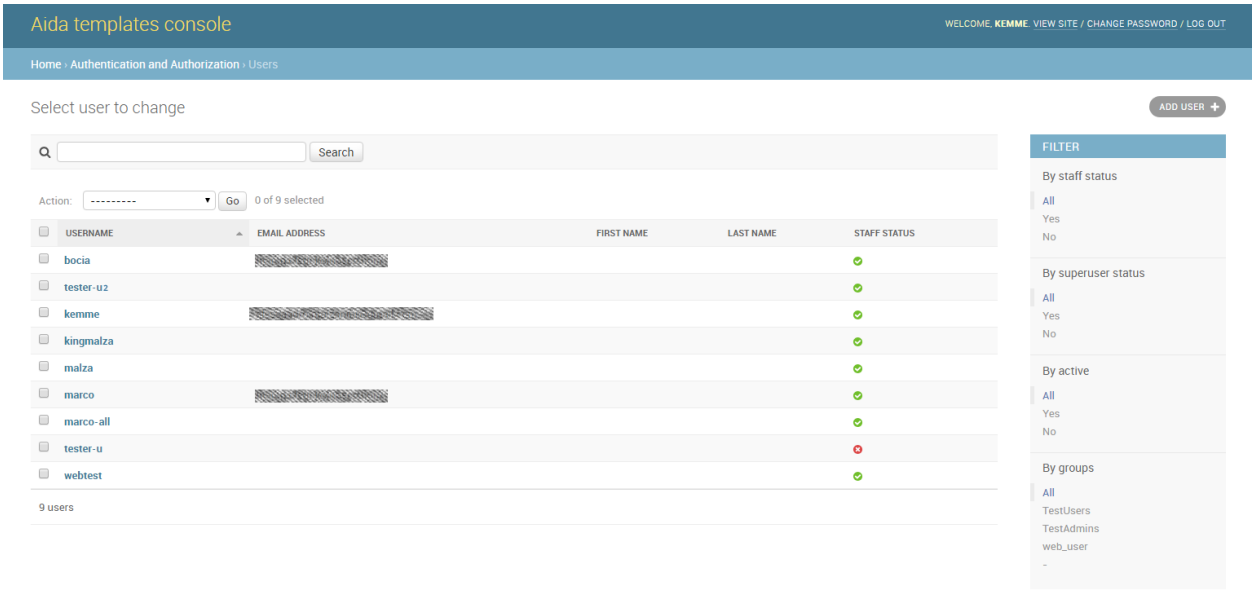
3.2.1 Create and manage user

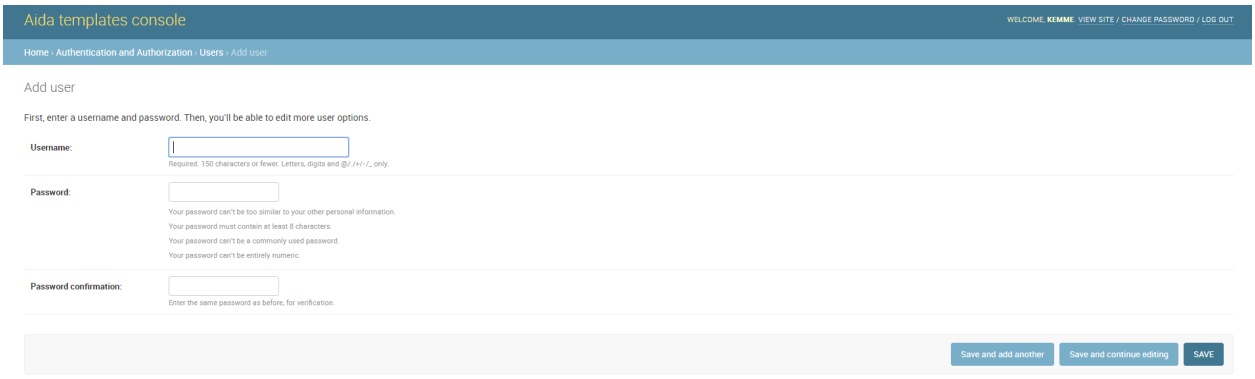
Once the aida group (s) have been defined, it is possible to create one or more users to associate with that group through the **User Management** function from the Aida homescreen.

3.3 Create a new user

To create a new user in Aida, from the main user management mask, select the ** ADD USER + ** button

- **Username**: The username you want to assign to the user you are creating (unique)
- **Password**: The password for the user, must be complied following the indications regarding the requirements listed under this field

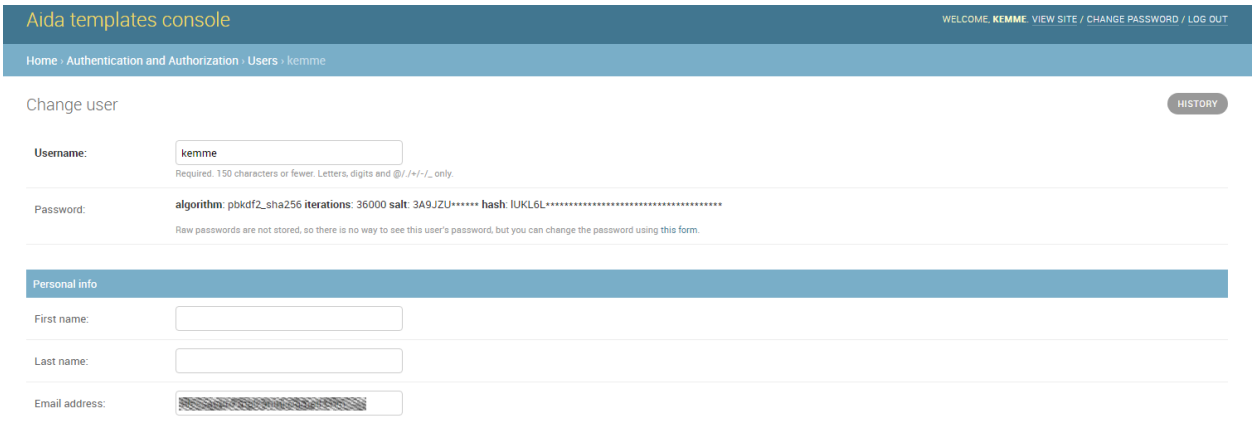

Aida templates console
WELCOME, KEMME. VIEW SITE / CHANGE PASSWORD / LOG OUT
Home › Authentication and Authorization › Users
Select user to change
ADD USER
Search
Action: --------- Go 0 of 9 selected
USERNAME
EMAIL ADDRESS
FIRST NAME
LAST NAME
STAFF STATUS
bocia
tester-u2
kemme
kingmalza
malza
marco
marco-all
tester-u
webtest
9 users
FILTER
By staff status
All
Yes
No
By superuser status
All
Yes
No
By active
All
Yes
No
By groups
All
TestUsers
TestAdmins
web_user
-


Aida templates console
WELCOME, KEMME. VIEW SITE / CHANGE PASSWORD / LOG OUT
Home › Authentication and Authorization › Users › Add user
Add user
First, enter a username and password. Then, you'll be able to edit more user options.
Username:
Required. 150 characters or fewer. Letters, digits and @/./+/-/_ only.
Password:
Your password can't be too similar to your other personal information.
Your password must contain at least 8 characters.
Your password can't be a commonly used password.
Your password can't be entirely numeric.
Password confirmation:
Enter the same password as before, for verification.
Save and add another
Save and continue editing
SAVE

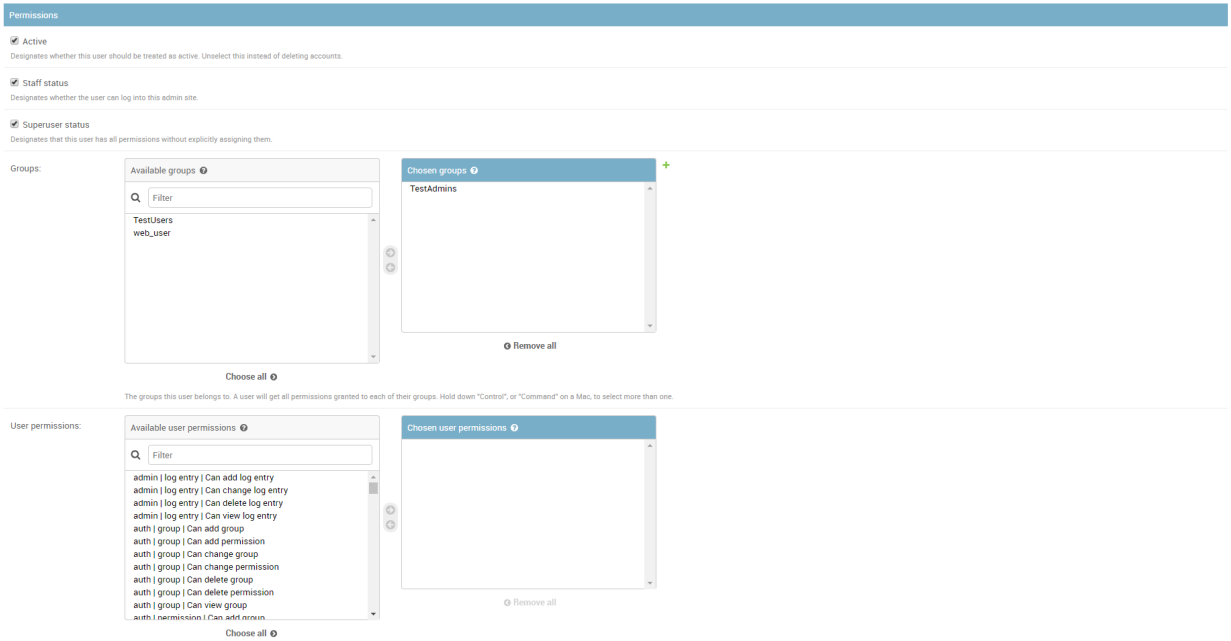
- **Password confirmation**: The same password entered previously

3.4 Manage an existing user

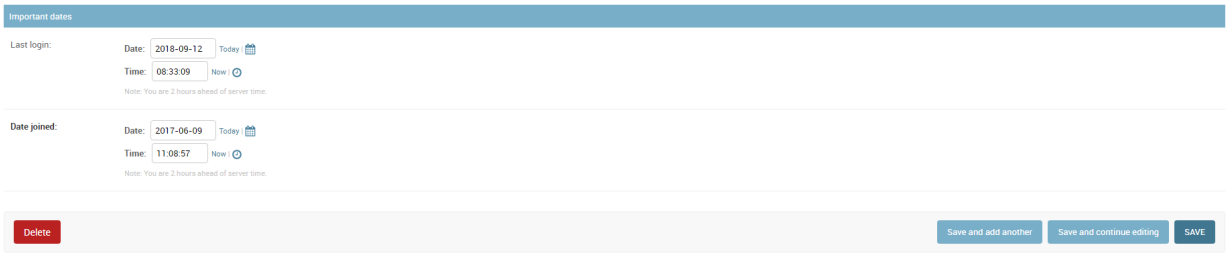
To manage an existing user whether it is a newly created user or a previously configured user, simply select the one you want to manage from the initial user management screen:



- **Username**: The selected User username
- **Password**: *Raw passwords are not stored, so there is no way to see this user's password*
- **Personal info**
  - **First name**: The first name of the user (optional)
  - **Last name**: The last name for the user (optional)
  - **Email address**: Email address for the user (used for password remember etc. etc.)



- **Permissions**
  - **Active**: *Designates whether this user should be treated as active. Unselect this instead of deleting accounts.*
  - **Staff status**: *Designates whether the user can log into this admin site.*
  - **Superuser status**: *Designates that this user has all permissions without explicitly assigning them.*
  - **Groups**: Groups to which the user is associated by inheriting the permissions set
  - **User Permissions**: It is possible to set individual permissions for the specific user outside those set for the group.



- **Important dates**
  - **Last login**: Date and time of the last system login made by the selected user
  - **Date joined**: Date and time when the user was created for the first time

CHAPTER 4

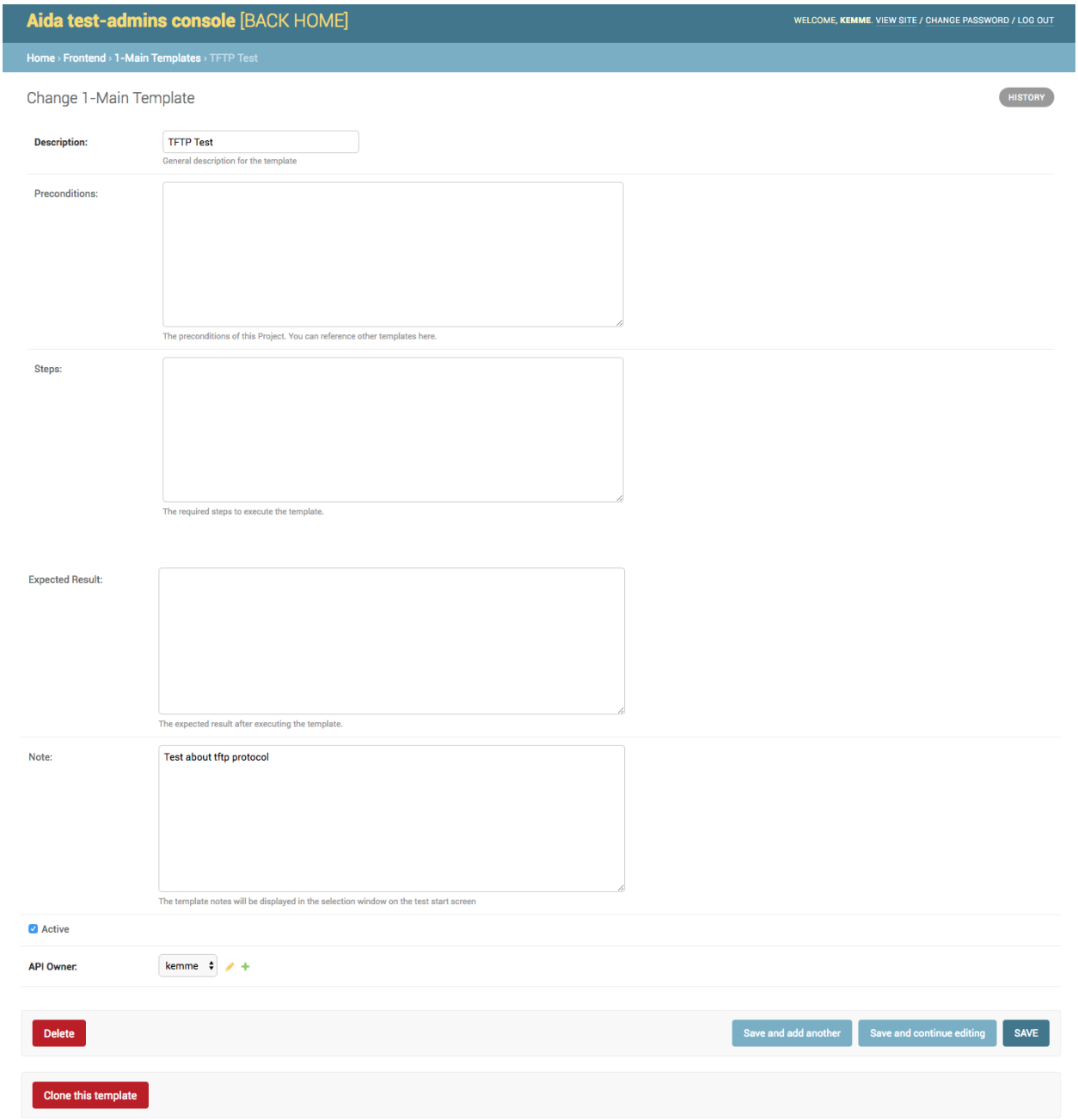
Using Aida as a Test Suite

Aida is a test suite based on robotframework and selenium that allows you to perform almost any type of test on any environment you want. To test with Aida you must first create a template that can then be run by different users and with different values from the Aida testing engine.

Once logged in to the system, to go to configure a test you need to use the **Templates Manager** link from the main menu:

4.1 1-Main Templates

Once you have selected the step to be created for creating the template, you will be presented with the form containing the list of data present in that session, simply go to select the **ADD ..** button to add a new record or select a value existing to be able to manage it.



- **Description**: Template name that is being created
- **Preconditions**: The preconditions of this Project. You can reference other templates here
- **Steps**: The required steps to execute the template
- **Expected Result**: The expected result after executing the template

- **Note**: Additional information regarding the template you are going to create
- **Active**: Activate or Deactivate the template (Deactivated templates are not able to run)

Warning:

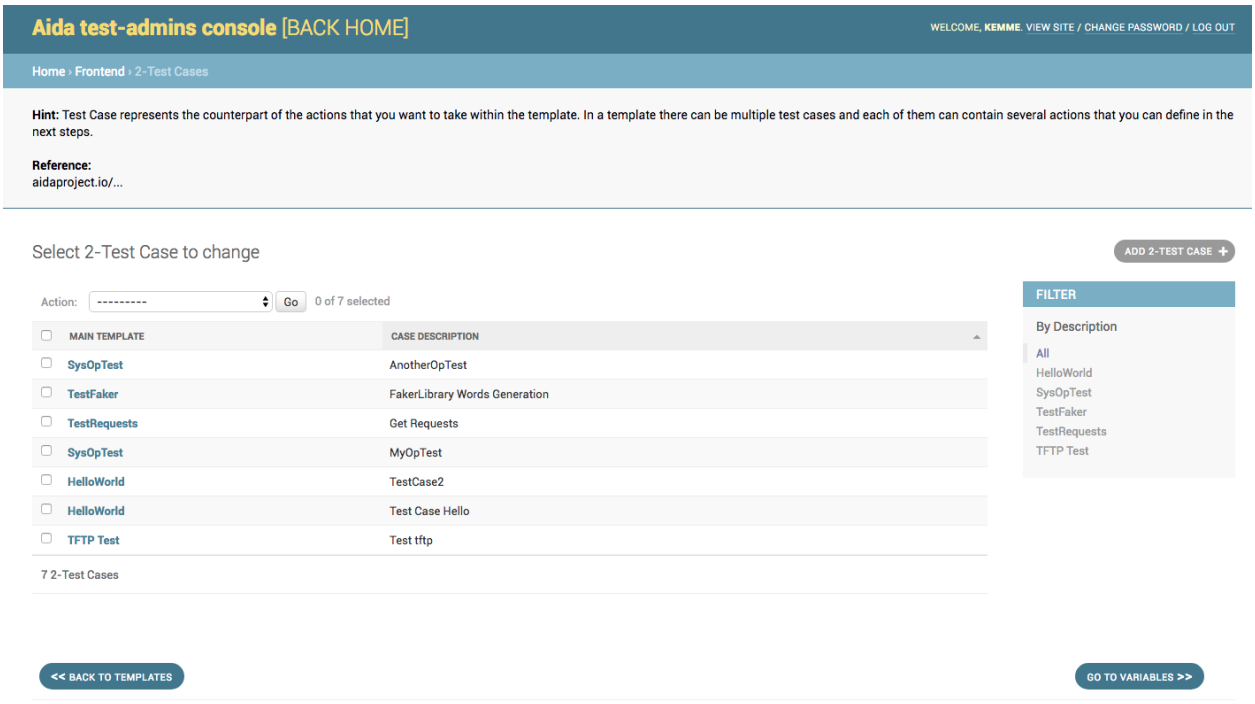
- **API Owner**: User to the interaction rights will be assigned through API to the specific table. Only the selected user can manage API calls to that specific data

The "**Clone this template**" option allows you to make an exact copy of the entire structure of the selected template including variables, values, keys and settings. The new template will be shown in the list of system templates with the name of the original followed by _cloned.

Note: It is suggested, once the clone of an existing template has been made, to select the cloned template and change the name so that it is immediately understandable by the whole team.

4.2 2-Test Cases

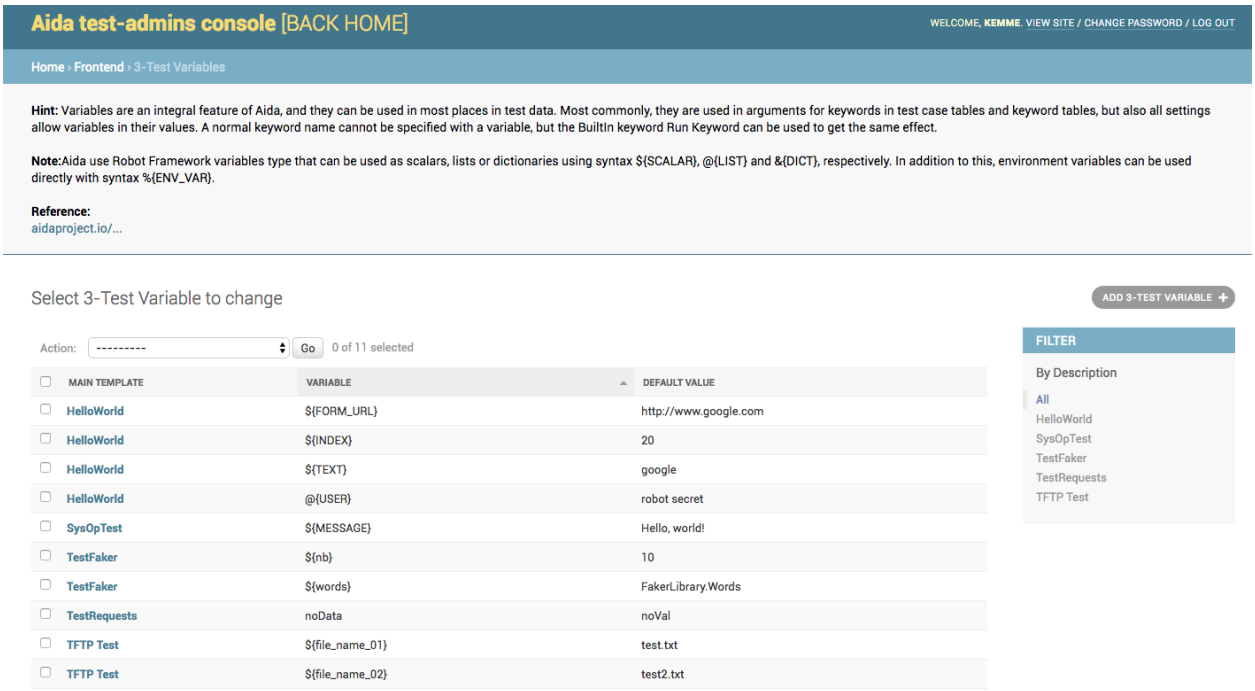
The page dedicated to the creation / modification of the tet cases allows authirized users to create and associate all the test cases that you want to include to a main template.



By selecting an existing test case it's possible to modify the data (Template id, description of the test case and API owner), while using the "**ADD 2-TEST CASE**" button it will be possible to insert a new test case.

4.3 3-Test Variables

The variable management mask allows to associate to the main template key / value associations that can be managed by the main test execution mask by the tester in charge



Note: These settings influence the display of the frontend side template and manage the possibility of inserting and modifying the values in execution of the test.

If you need to insert data that can not be modified during the test execution phase, these should not be inserted in this form.

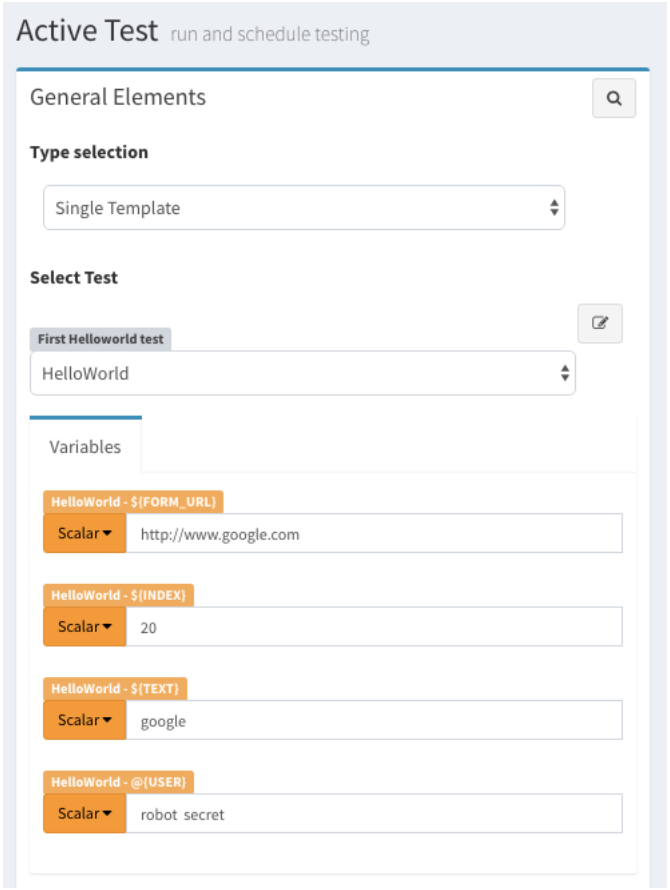
The template for managing / inserting the variables provides for selecting the main template to which the data is to be linked, the name of the variable and any value (it is also possible to leave it null)

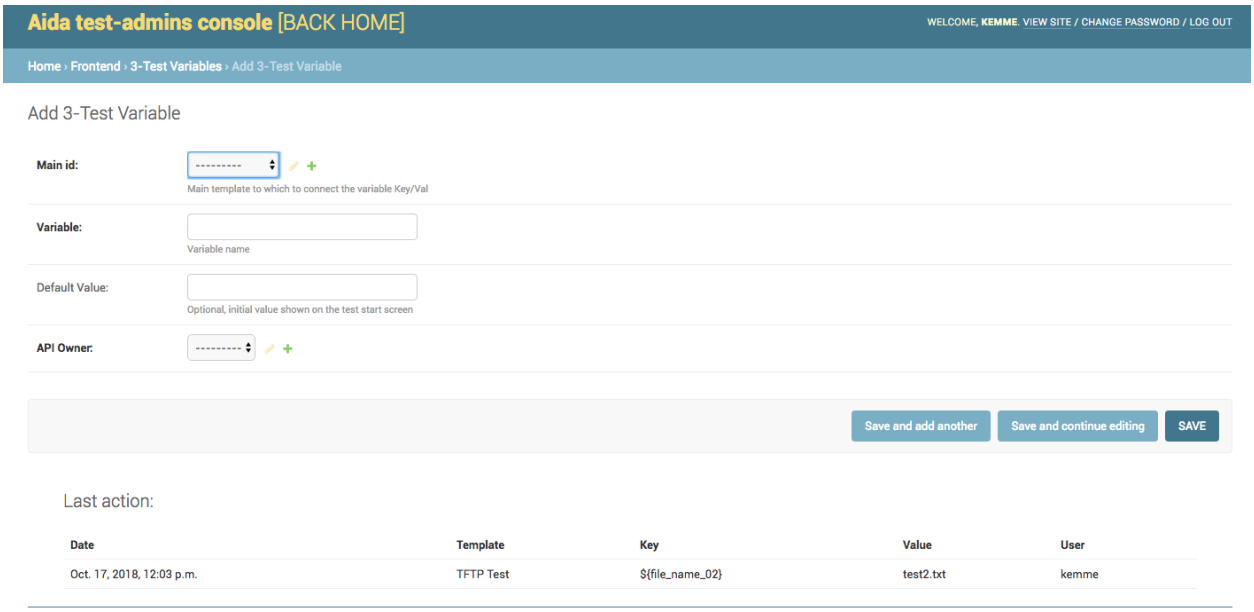
4.4 4-Test Settings

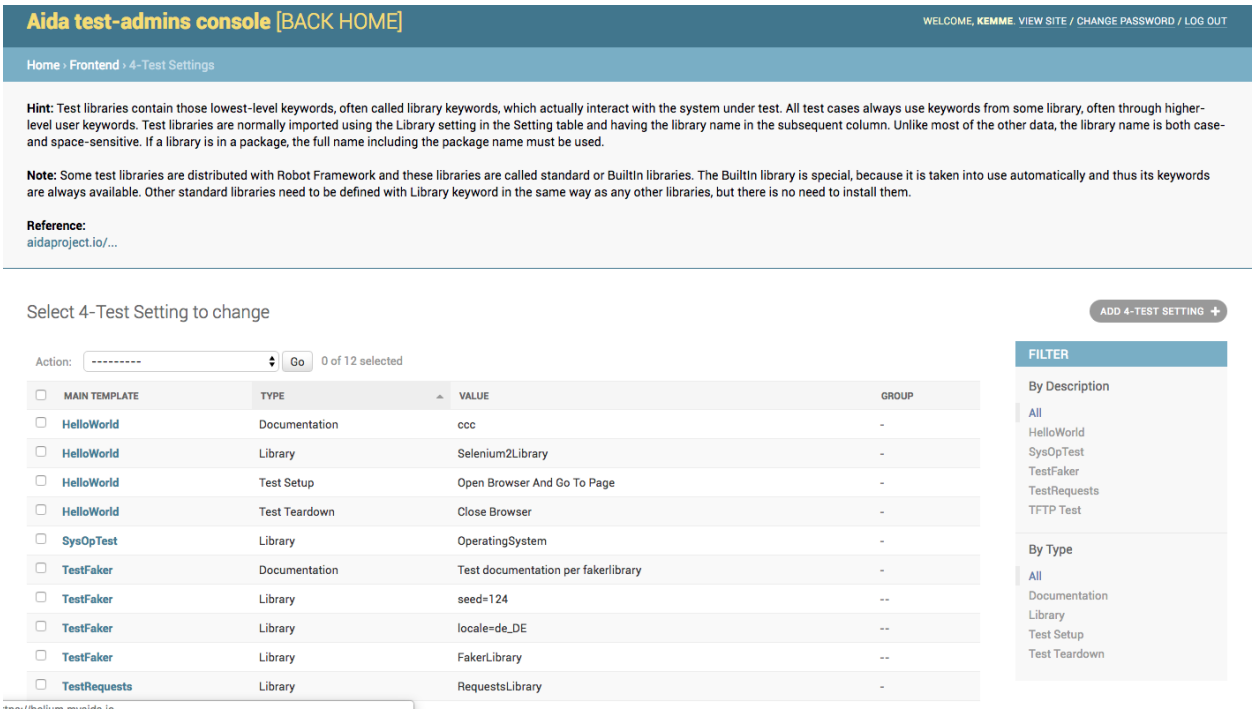
The settings management mask allows to associate to the main template almost all types of manageable libraries (Library, Documentation, Test Setup, Test Teardown, Suite Setup, Suite teardown, etc.)

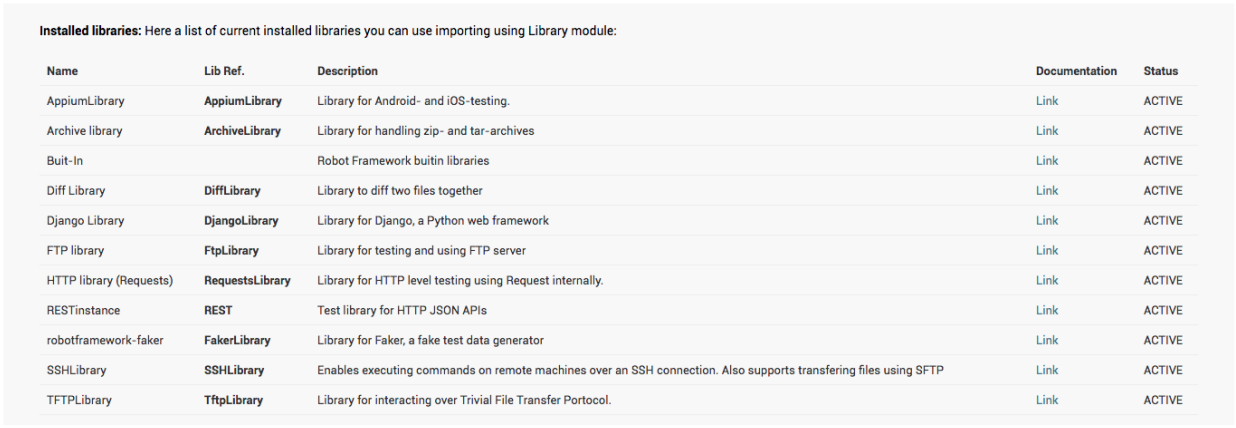
Warning: When associating new libraries with your template make sure to enter the correct value in the "Value" field once Type **Lybrary** is specified. The add / edit mask shows at the bottom the list of libraries currently available for your work environment. An incorrect association of the value of a library can lead to errors in the execution of the test.

To add a new library just go to select the button on the upper right "**ADD 4-TEST SETTING**" and fill in the form with the data relative to the name of the main template, type and value of the library and eventual grouping of values if necessary

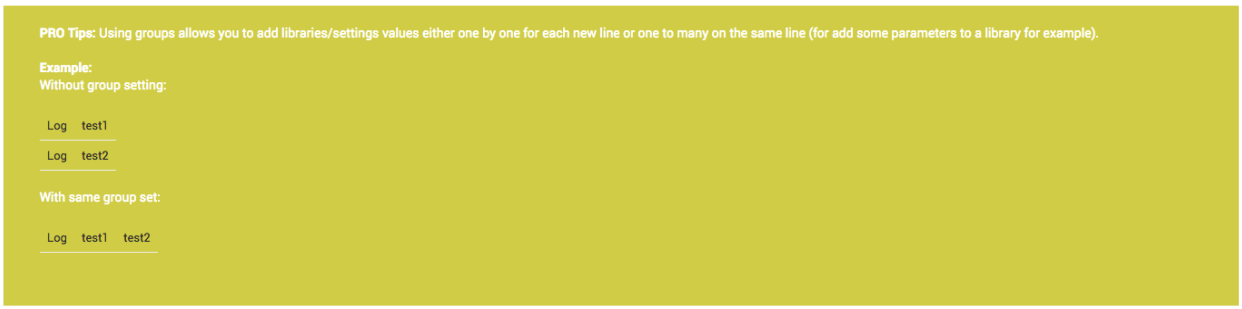

Active Test run and schedule testing
General Elements
Type selection
Single Template
Select Test
First Helloworld test
HelloWorld
Variables
HelloWorld - ${FORM_URL}
Scalar
http://www.google.com
HelloWorld - ${INDEX}
Scalar
20
HelloWorld - ${TEXT}
Scalar
google
HelloWorld - @{USER}
Scalar
robot secret


Aida test-admins console [BACK HOME]
WELCOME, KEMME. VIEW SITE / CHANGE PASSWORD / LOG OUT
Home › Frontend › 3-Test Variables › Add 3-Test Variable
Add 3-Test Variable
Main id:
Main template to which to connect the variable Key/Val
Variable:
Variable name
Default Value:
Optional, initial value shown on the test start screen
API Owner:
Save and add another
Save and continue editing
SAVE
Last action:
Date
Template
Key
Value
User
Oct. 17, 2018, 12:03 p.m.
TFTP Test
${file_name_02}
test2.txt
kemme


Aida test-admins console [BACK HOME]
WELCOME, KEMME. VIEW SITE / CHANGE PASSWORD / LOG OUT
Home › Frontend › 4-Test Settings
Hint: Test libraries contain those lowest-level keywords, often called library keywords, which actually interact with the system under test. All test cases always use keywords from some library, often through higher-level user keywords. Test libraries are normally imported using the Library setting in the Setting table and having the library name in the subsequent column. Unlike most of the other data, the library name is both case- and space-sensitive. If a library is in a package, the full name including the package name must be used.
Note: Some test libraries are distributed with Robot Framework and these libraries are called standard or BuiltIn libraries. The BuiltIn library is special, because it is taken into use automatically and thus its keywords are always available. Other standard libraries need to be defined with Library keyword in the same way as any other libraries, but there is no need to install them.
Reference:
aidaproject.io/...
Select 4-Test Setting to change
ADD 4-TEST SETTING
Action: --------- Go 0 of 12 selected
MAIN TEMPLATE
TYPE
VALUE
GROUP
HelloWorld Documentation ccc -
HelloWorld Library Selenium2Library -
HelloWorld Test Setup Open Browser And Go To Page -
HelloWorld Test Teardown Close Browser -
SysOpTest Library OperatingSystem -
TestFaker Documentation Test documentation per fakerlibrary -
TestFaker Library seed=124 --
TestFaker Library locale=de_DE --
TestFaker Library FakerLibrary --
TestRequests Library RequestsLibrary -
FILTER
By Description
All
HelloWorld
SysOpTest
TestFaker
TestRequests
TFTP Test
By Type
All
Documentation
Library
Test Setup
Test Teardown

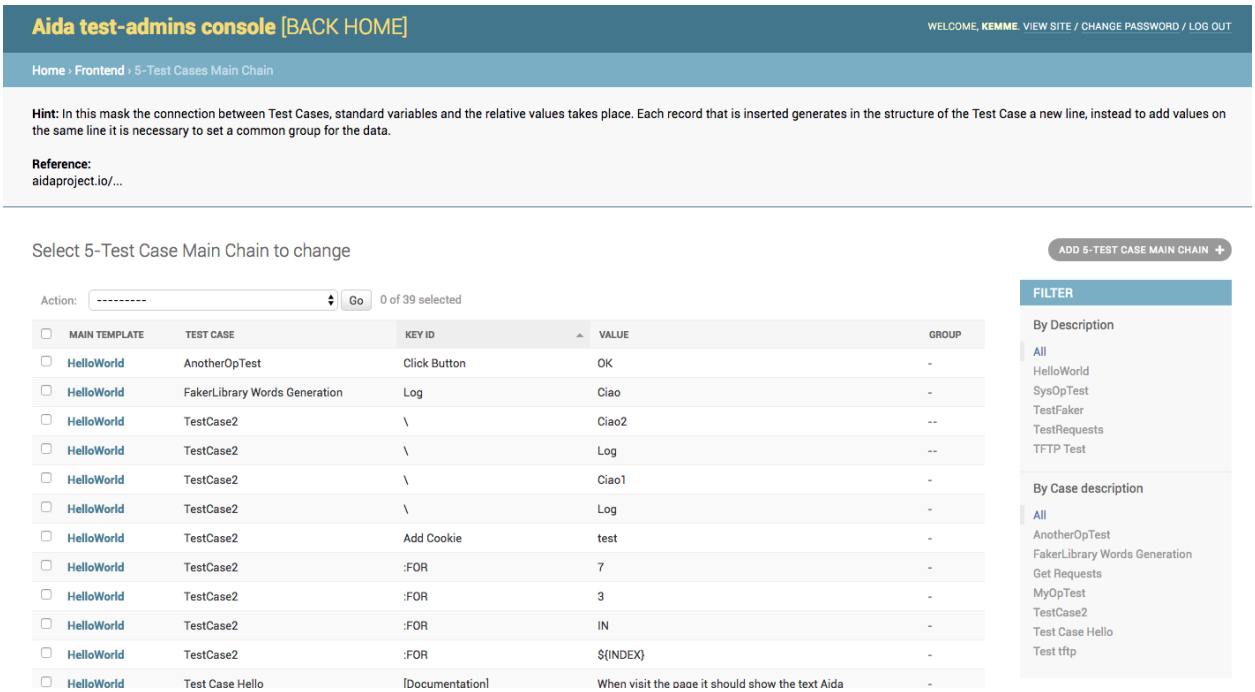

Installed libraries: Here a list of current installed libraries you can use importing using Library module:
Name
Lib Ref.
Description
Documentation
Status
AppiumLibrary AppiumLibrary Library for Android- and iOS-testing. Link ACTIVE
Archive library ArchiveLibrary Library for handling zip- and tar-archives Link ACTIVE
Buit-In Robot Framework buitin libraries Link ACTIVE
Diff Library DiffLibrary Library to diff two files together Link ACTIVE
Django Library DjangoLibrary Library for Django, a Python web framework Link ACTIVE
FTP library FtpLibrary Library for testing and using FTP server Link ACTIVE
HTTP library (Requests) RequestsLibrary Library for HTTP level testing using Request internally. Link ACTIVE
RESTinstance REST Test library for HTTP JSON APIs Link ACTIVE
robotframework-faker FakerLibrary Library for Faker, a fake test data generator Link ACTIVE
SSHLibrary SSHLibrary Enables executing commands on remote machines over an SSH connection. Also supports transfering files using SFTP Link ACTIVE
TFTPLibrary TftpLibrary Library for interacting over Trivial File Transfer Portocol. Link ACTIVE

Note: The grouping function allows you to **aggregate multiple values to a single type of data**. If, for example, you want to create a Library-like setting with both "RequestsLibrary" and "Collections" values, simply add the line twice in the settings to indicate the same group.



4.5 5-Test Cases Main Chain

In this area it's possible to connect test cases, variables and related values to each other. Unlike the Test Variables area, in this case the name / value association for the variable remains **inside** the template and is executed during the run of the test without being able to be modified by the tester at frontend.



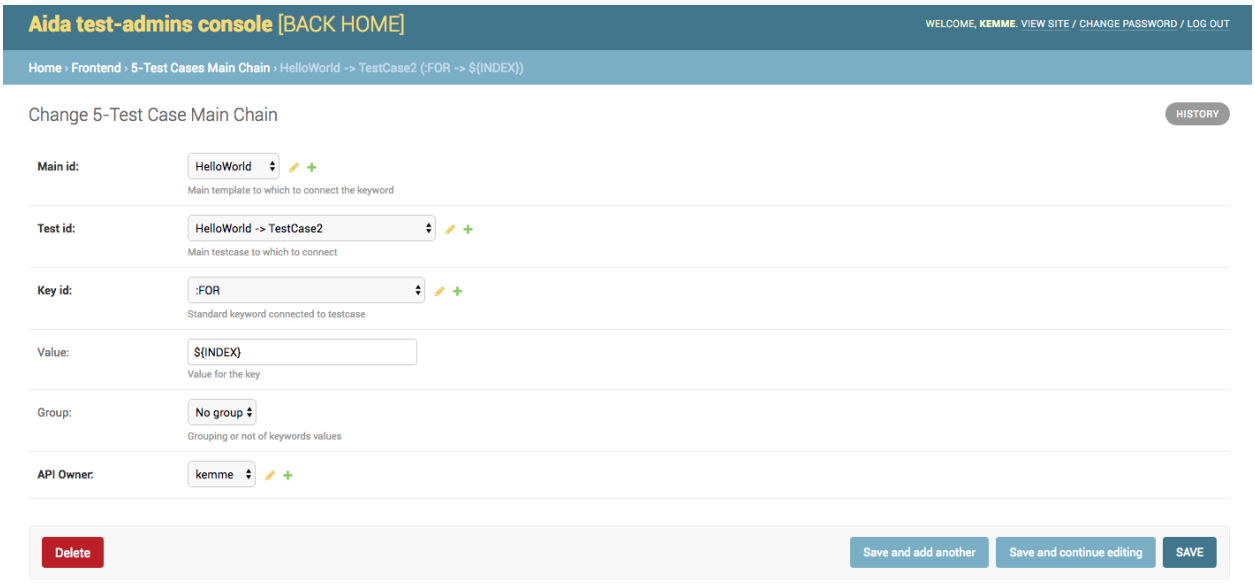
Note: In this form it is possible to implement also for loops using the key ded: FOR as follows:

The result is a directive within the testcase that will be executed at each test run.

It is possible to add a new association or modify an existing one simply by setting the parameters related to main template, associated test case, key / value and eventual grouping in add or edit mask.

☐	HelloWorld	TestCase2	:FOR	7
☐	HelloWorld	TestCase2	:FOR	3
☐	HelloWorld	TestCase2	:FOR	IN
☐	HelloWorld	TestCase2	:FOR	${INDEX}

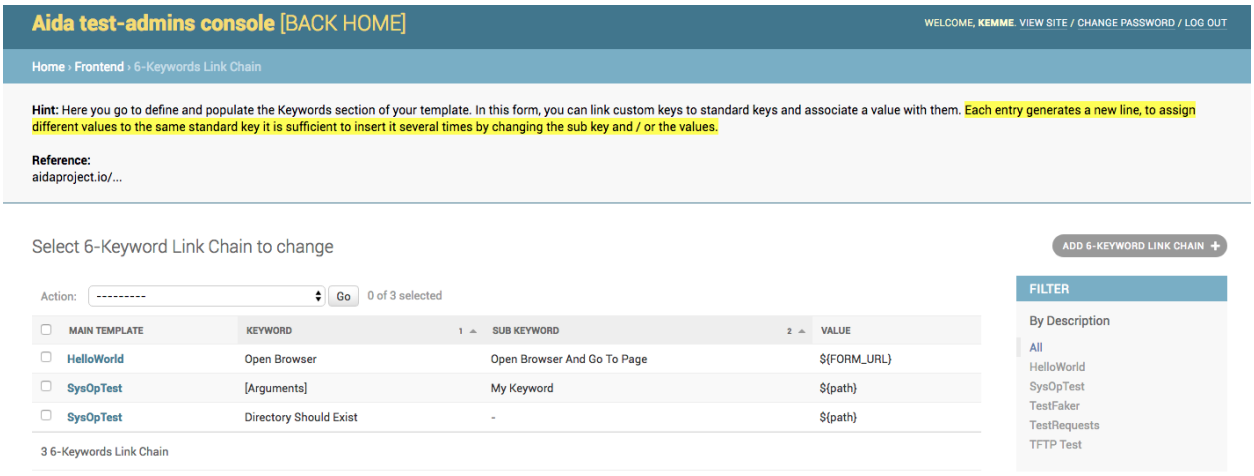
```
| TestCase2 | :FOR | ${INDEX} | IN | 3 | 7 |
```



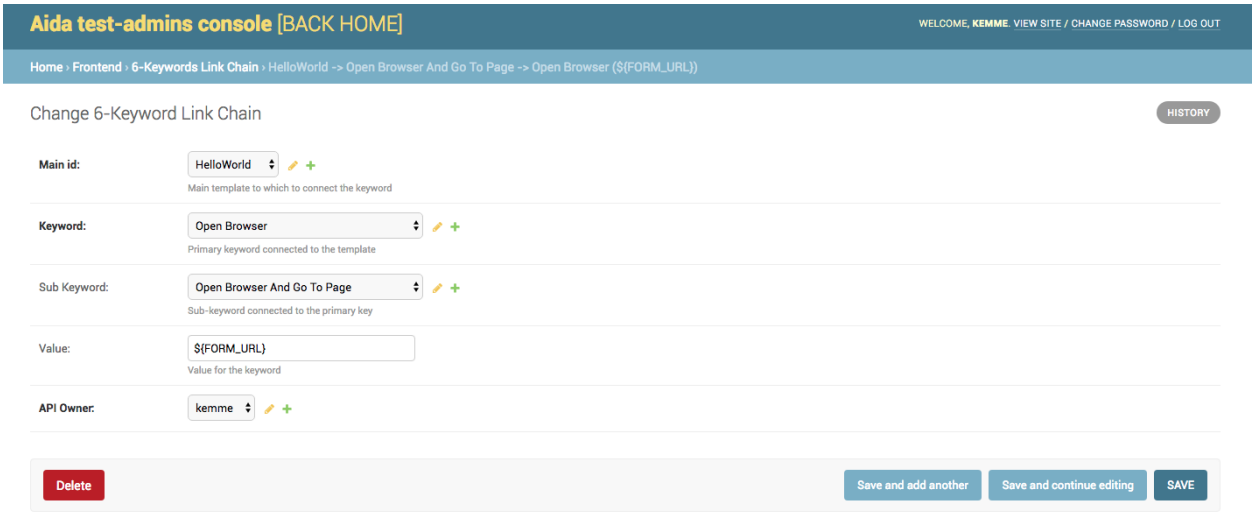
4.6 6-Keywords Link Chain

In this area it's possible to link together standard keys with custom keys and associate values with them. This association will create the "Kewords" table in the test

Keywords		
Open Browser And Go To Page	Open Browser	${FORM_URL}



For manage the insertion and modification of the data, it's sufficient from the insertion or modification mask indicate the main template, the primary key and the sub-key to link, as well as the value to be associated.

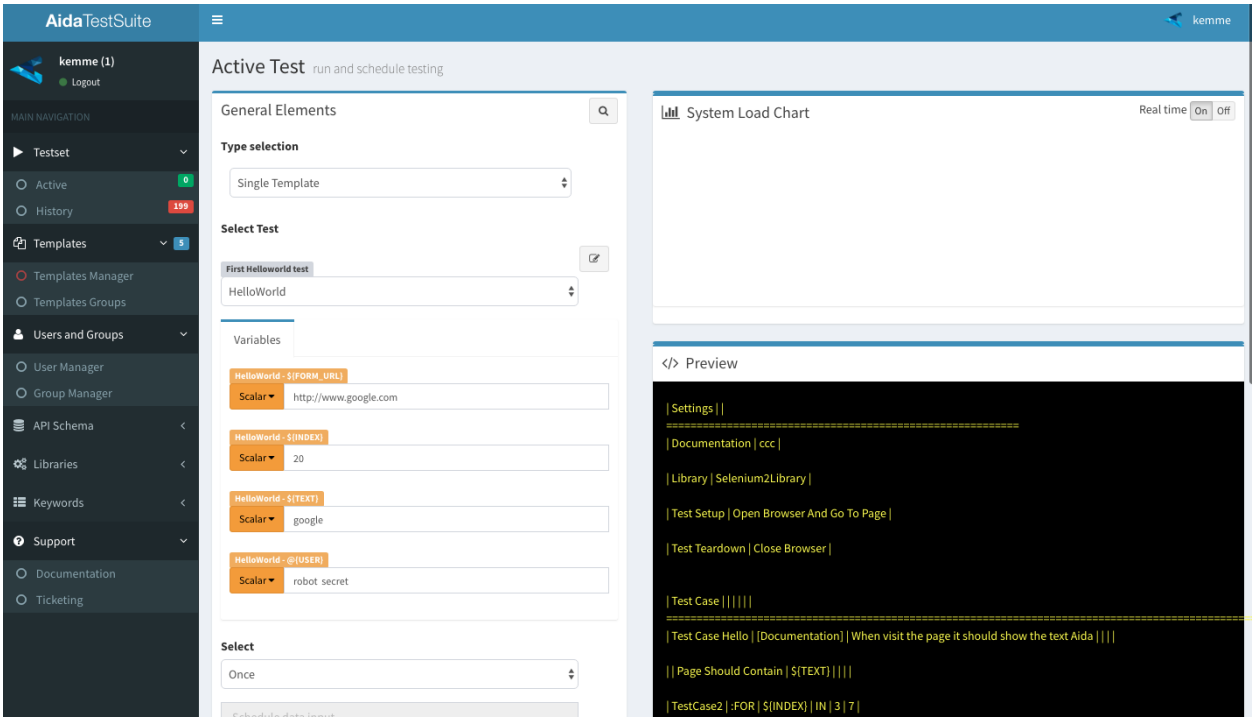


CHAPTER 5

Manage Aida frontend

5.1 Active

From the active processes management window it is possible to execute, monitor and manage the created templates and the public variables associated to them.



The window consists of the following main areas:

General elements

In this area it is possible to make the type of selection with regard to the tests to be performed, the possible choices are: -Single Template -Test Group -TAG Aggregation -Project Aggregation

Once selected the Test Type choice the test are will automatically filled according to the choice made in the preview section. Once an item has been selected, the description entered during the configuration phase will appear above the selection.

The Variables session appears as soon as the selection of the test / group to be launched is carried out and contains all those data/value keys defined in the design phase of the template in the "Test Variables" area.

Note: For each variable at the frontend it is possible to use three different types of data management:

Scalar: The value of the associated variable remains that for each test run

Random (Num): By inserting a range of numerical values in the format "<Minimum number> - <Maximum number>" each time the test is performed, the system will enter a random numerical value contained within the specified intervals.

Random (String): By entering the number of characters of which the string should be composed, the system automatically at each run cycle will insert a random string with the number of characters defined in the test

---

At the base of the section it is possible to go and schedule the repetitiveness of the execution; this can be set to:

Once: The test is performed only once

Every Minutes: specifying the value of the minutes of waiting between one execution and another the test is performed until the manual stop by the user every n minutes defined.

Every hour: No input value requested by the user; The test is performed until the user stops every hour starting from the first execution.

Every Day: By entering the time in the format HH: MM the test is repeated until the manual syop by the user at the same time every day.

System Load Chart

The system load management graph monitors the situation related to the activity on the central system in relation to the load of the your dedicated test engine.

Preview

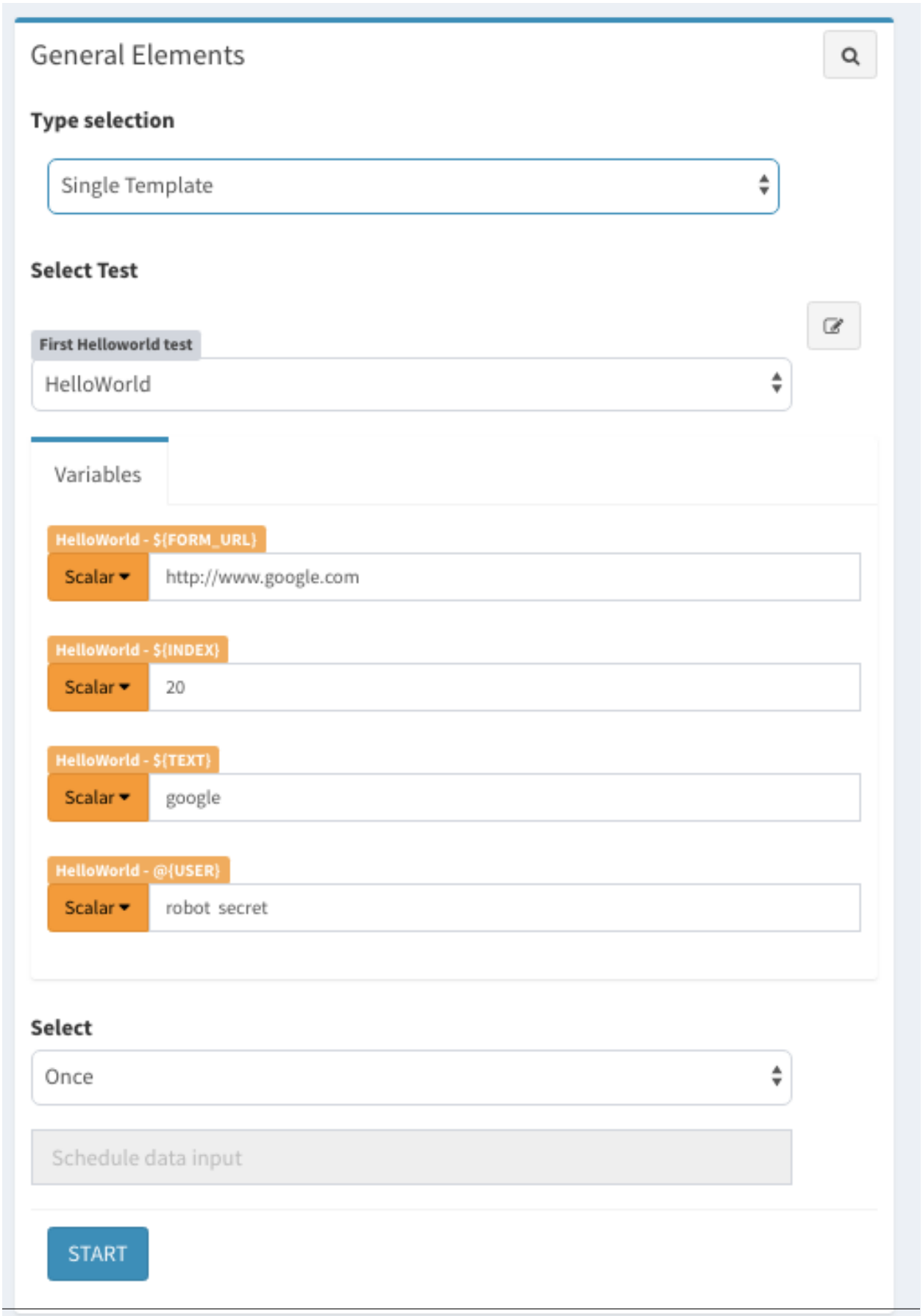
The preview area allows you to view, once the template to be executed is selected, a representation of the test structure that will be created dynamically created by the template settings.

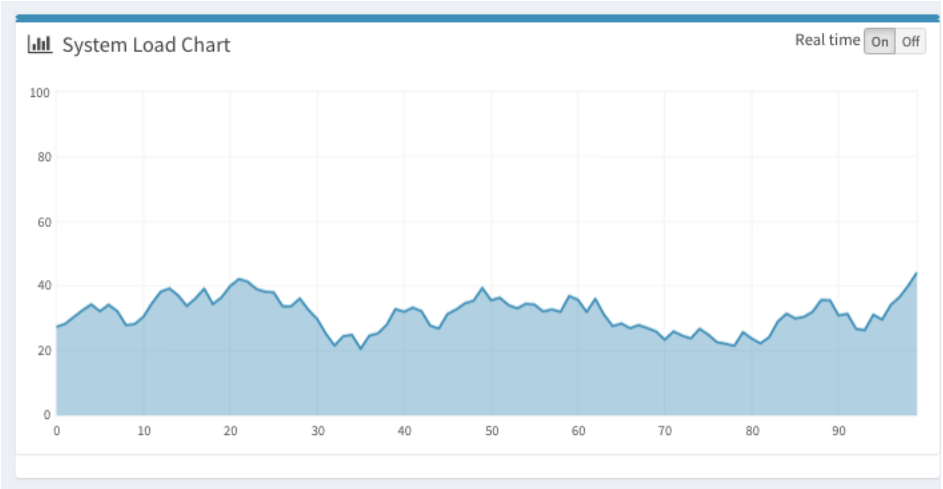
5.2 History

The management of the history in aida includes all the completed tests. From the summary table you can go to view all the information about the tests performed and their subchilds (in case of multiple executions). Selecting a column name automatically the whole table will be sorted by this value, first click ascending order, second one descending order. To return to original table view, simply order by ID (first column)

Selecting a line you will be able to see the details of the whole process.

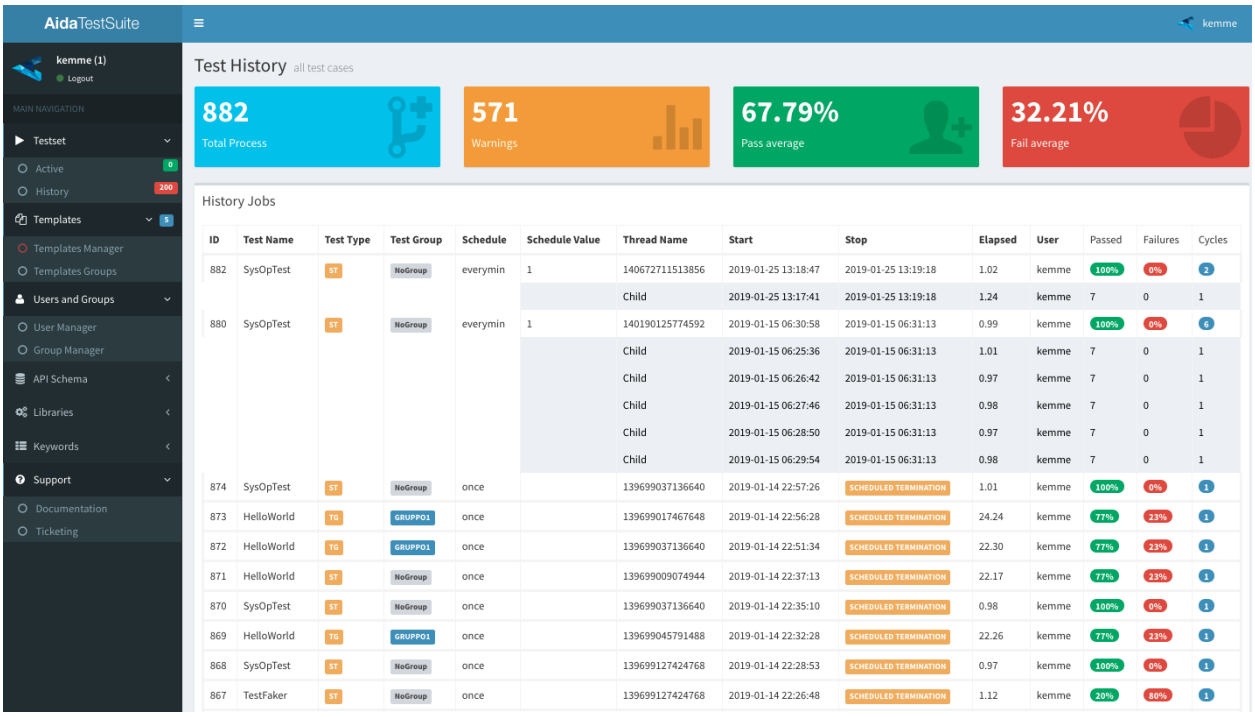
Note: From the history process selection detail it is possible to assign a ticket to another user relative to the test run that is being selected. To do this it is sufficient to select from the orange drop-down menu the name of the user for

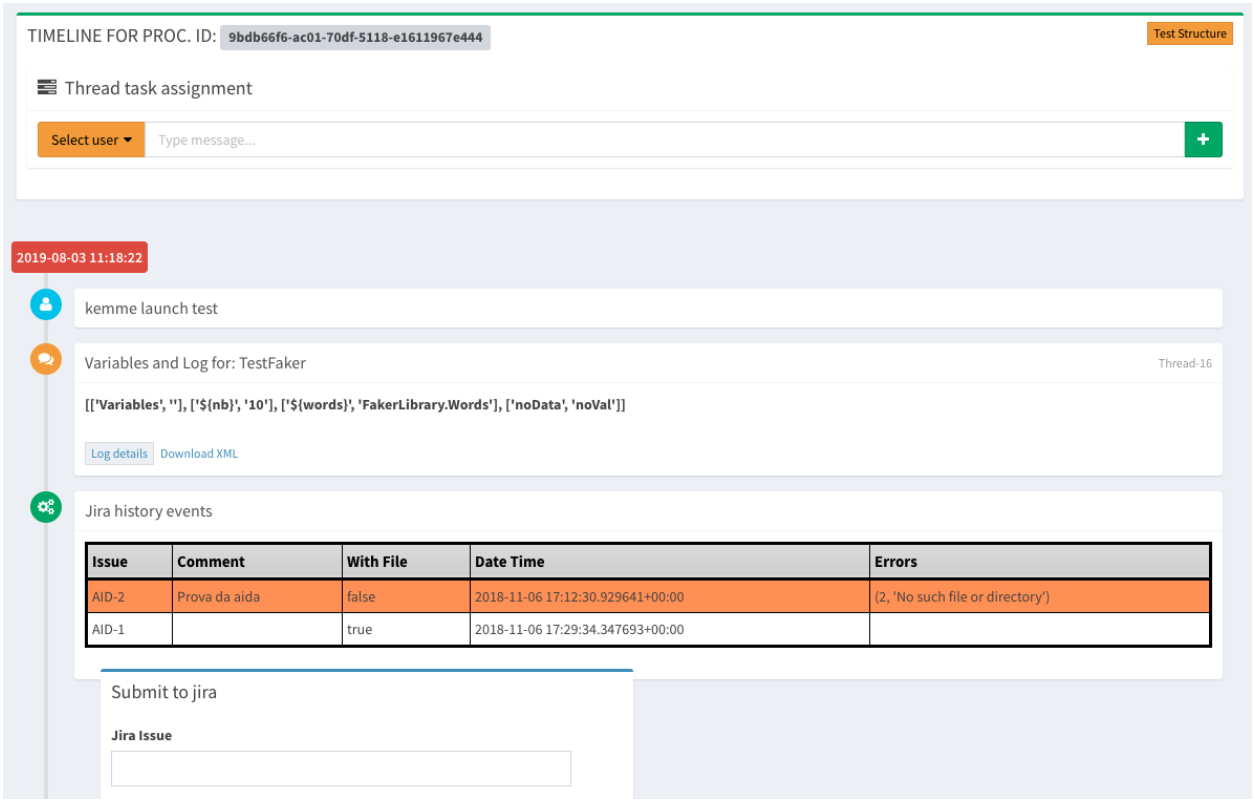

General Elements
Type selection
Single Template
Select Test
First Helloworld test
HelloWorld
Variables
HelloWorld - ${FORM_URL}
Scalar
http://www.google.com
HelloWorld - ${INDEX}
Scalar
20
HelloWorld - ${TEXT}
Scalar
google
HelloWorld - @{USER}
Scalar
robot secret
Select
Once
Schedule data input
START



Preview

```
| Settings | |
================================
| Library | OperatingSystem |


| Test Case | | | |
=============================================================
| MyOpTest | [Documentation] | Example test | |

| | Log | ${MESSAGE} | |

| | My Keyword | /var | |

| AnotherOpTest | Should Be Equal | ${MESSAGE} | Hello, world! |

| | [Arguments] | 1 | |


| Keywords | | |
=============================================================
| My Keyword | [Arguments] | ${path} |

| | Directory Should Exist | ${path} |
```


AidaTestSuite
kemme (1)
Logout
MAIN NAVIGATION
Testset
Active
History
Templates
Templates Manager
Templates Groups
Users and Groups
User Manager
Group Manager
API Schema
Libraries
Keywords
Support
Documentation
Ticketing
kemme
Test History
all test cases
882
Total Process
571
Warnings
67.79%
Pass average
32.21%
Fail average
History Jobs
ID
Test Name
Test Type
Test Group
Schedule
Schedule Value
Thread Name
Start
Stop
Elapsed
User
Passed
Failures
Cycles
882 SysOpTest ST NoGroup everymin 1 140672711513856 2019-01-25 13:18:47 2019-01-25 13:19:18 1.02 kemme 100% 0% 2
Child 2019-01-25 13:17:41 2019-01-25 13:19:18 1.24 kemme 7 0 1
880 SysOpTest ST NoGroup everymin 1 140190125774592 2019-01-15 06:30:58 2019-01-15 06:31:13 0.99 kemme 100% 0% 6
Child 2019-01-15 06:25:36 2019-01-15 06:31:13 1.01 kemme 7 0 1
Child 2019-01-15 06:26:42 2019-01-15 06:31:13 0.97 kemme 7 0 1
Child 2019-01-15 06:27:46 2019-01-15 06:31:13 0.98 kemme 7 0 1
Child 2019-01-15 06:28:50 2019-01-15 06:31:13 0.97 kemme 7 0 1
Child 2019-01-15 06:29:54 2019-01-15 06:31:13 0.98 kemme 7 0 1
874 SysOpTest ST NoGroup once 139699037136640 2019-01-14 22:57:26 SCHEDULED TERMINATION 1.01 kemme 100% 0% 1
873 HelloWorld TG GRUPPO1 once 139699017467648 2019-01-14 22:56:28 SCHEDULED TERMINATION 24.24 kemme 77% 23% 1
872 HelloWorld TG GRUPPO1 once 139699037136640 2019-01-14 22:51:34 SCHEDULED TERMINATION 22.30 kemme 77% 23% 1
871 HelloWorld ST NoGroup once 139699009074944 2019-01-14 22:37:13 SCHEDULED TERMINATION 22.17 kemme 77% 23% 1
870 SysOpTest ST NoGroup once 139699037136640 2019-01-14 22:35:10 SCHEDULED TERMINATION 0.98 kemme 100% 0% 1
869 HelloWorld TG GRUPPO1 once 139699045791488 2019-01-14 22:32:28 SCHEDULED TERMINATION 22.26 kemme 77% 23% 1
868 SysOpTest ST NoGroup once 139699127424768 2019-01-14 22:28:53 SCHEDULED TERMINATION 0.97 kemme 100% 0% 1
867 TestFaker ST NoGroup once 139699127424768 2019-01-14 22:26:48 SCHEDULED TERMINATION 1.12 kemme 20% 80% 1


TIMELINE FOR PROC. ID: 9bdb66f6-ac01-70df-5118-e1611967e444
Test Structure
Thread task assignment
Select user
Type message...
2019-08-03 11:18:22
kemme launch test
Variables and Log for: TestFaker
Thread-16
[['Variables', ''], ['${nb}', '10'], ['${words}', 'FakerLibrary.Words'], ['noData', 'noVal']]
Log details
Download XML
Jira history events
Issue
Comment
With File
Date Time
Errors
AID-2 Prova da aida false 2018-11-06 17:12:30.929641+00:00 (2, 'No such file or directory')
AID-1 true 2018-11-06 17:29:34.347693+00:00
Submit to jira
Jira Issue

which the ticket have to be assigned, the explanatory text and, selecting the + button, the note will be entered and assigned to the selected user.

If an email address was entered during the creation of the user, the system will send an email notification.

From this position it will be possible to view the HTML representation of the test performed using the "**Test Structure**" button, the log file of each execution using the "**Log details**" button, download the XML format for each run using "**Download XML**" link and the details of the variables and their values used during the test execution; In case the integration with Jira is active, it will be possible to send directly to a Jira Issue, the detail of test execution and the relative log created.

5.3 Libraries

Currently aida has implemented several libraries to implement test templates on practically most of the software / firmware aspects that can be tested. The aida's built-in libraries allow to perform tests on different aspects such as:

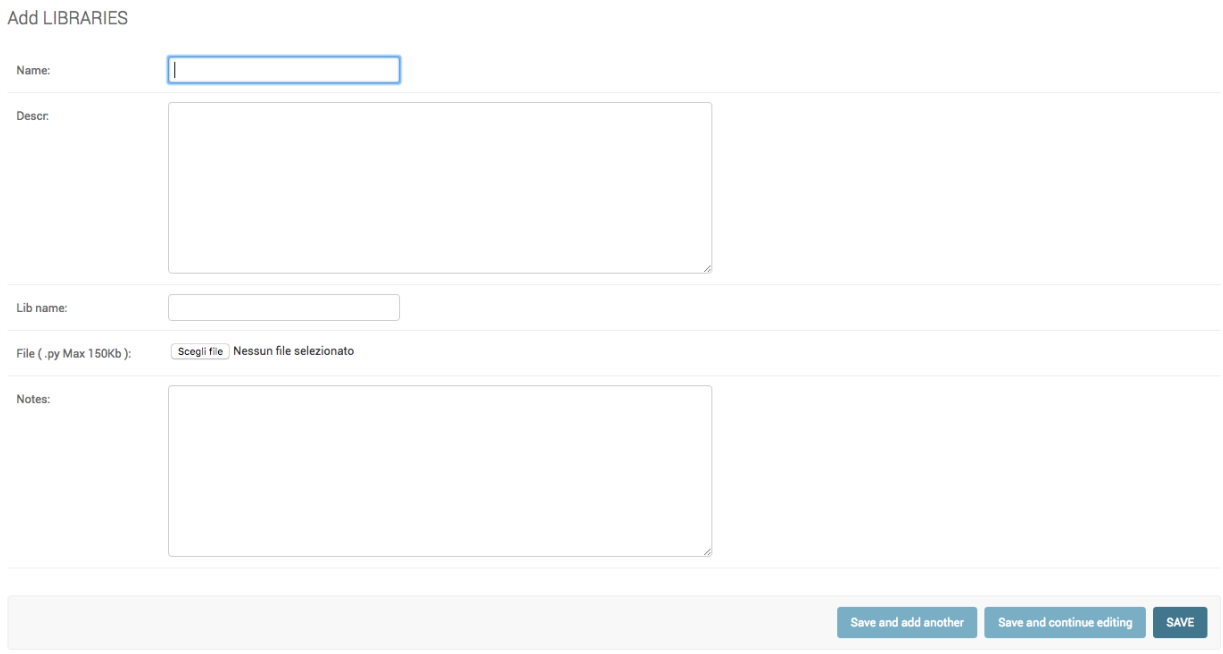
- Web applications
- Mobile applications
- Different types of files
- FTP server
- HTTP Requests
- REST APIs
- SFTP applications
- TFTP services
- Third-party framework like Django
- Any GUI component

... and so on

The libraries currently installed in aida are:

Name	Lib Ref.	Description	Documentation	Status
AppiumLibrary	**AppiumLibrary**	Library for Android- and iOS-testing.	Link	ACTIVE
Archive library	**ArchiveLibrary**	Library for handling zip- and tar-archives	Link	ACTIVE
Buit-In		Robot Framework buitin libraries	Link	ACTIVE
Diff Library	**DiffLibrary**	Library to diff two files together	Link	ACTIVE
Django Library	**DjangoLibrary**	Library for Django, a Python web framework	Link	ACTIVE
FTP library	**FtpLibrary**	Library for testing and using FTP server	Link	ACTIVE
HTTP library (Requests)	**RequestsLibrary**	Library for HTTP level testing using Request internally.	Link	ACTIVE
RESTinstance	**REST**	Test library for HTTP JSON APIs	Link	ACTIVE
robotframework-faker	**FakerLibrary**	Library for Faker, a fake test data generator	Link	ACTIVE
SSHLibrary	**SSHLibrary**	Enables executing commands on remote machines over an SSH connection. Also supports transfering files using SFTP	Link	ACTIVE
TFTPLibrary	**TftpLibrary**	Library for interacting over Trivial File Transfer Portocol.	Link	ACTIVE

It is possible to load custom libraries to be used inside your templates using the "**Libraries**" link in the lateral management menu or in the "**Template Manager**" through the "ADD" function next to "LIBRARIES"



Note: Currently only libraries written in python and packaged according to the python standard (https://packaging.python.org/tutorials/packaging-projects/) are accepted. The loaded libraries will remain in the PENDING state until they are approved by the aida control staff. Once approved, they can be incorporated into the templates.

5.4 Keywords

Keyswords are the basic concept of how aida works. The logic of creation and functionality of the templates is based on the concept of keywords driven execution.

Keywords within the aida system can be created and managed in two ways, as **Personal keys** and **Non-personal keys**. Basically the non-personal keys are intended as the built-in keys of standard libraries (all the keys of robotframework for example) while the personal keys are those inserted / created by the user. The big difference between these two types of keys is that the personal keys can be connected as sub keys to non-personal ones, but not the opposite.

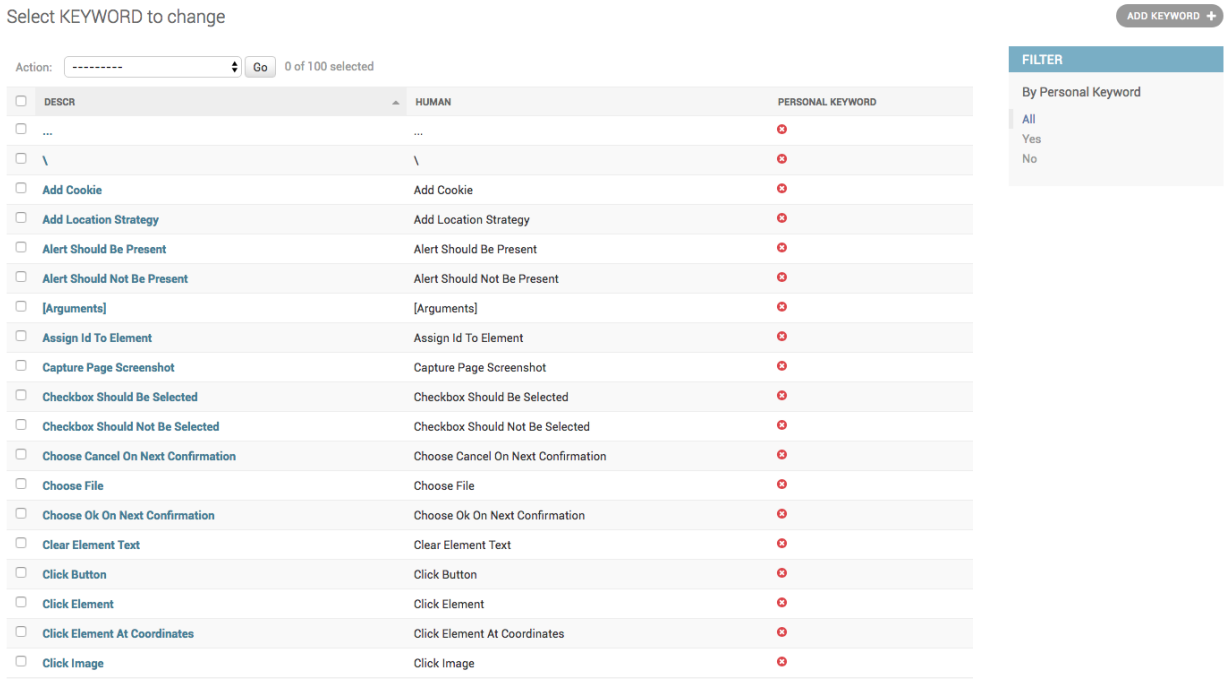
Warning: This kind of behavior particularly affects the key / value association phase (See the topic "Keywords Link chain" https://aidadoc.readthedocs.io/en/latest/firstuse.html#keywords-link-chain)

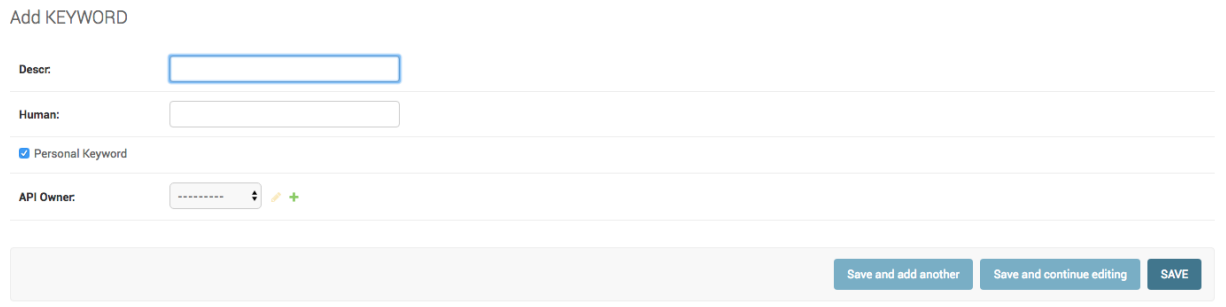
To manage / add keys to aida it is sufficient to use the "Keywords" link in the main menu or through the "Template Manager"

To add or manage a keyword it is sufficient to select it or use the "ADD KEYWORD" button

By default the new keys are proposed as "Personal", to change this setting is sufficient to flag the "**Personal keyword**" option

Note: It is possible to show the keyword in a "human" connotation at the moment of the selection for the creation of

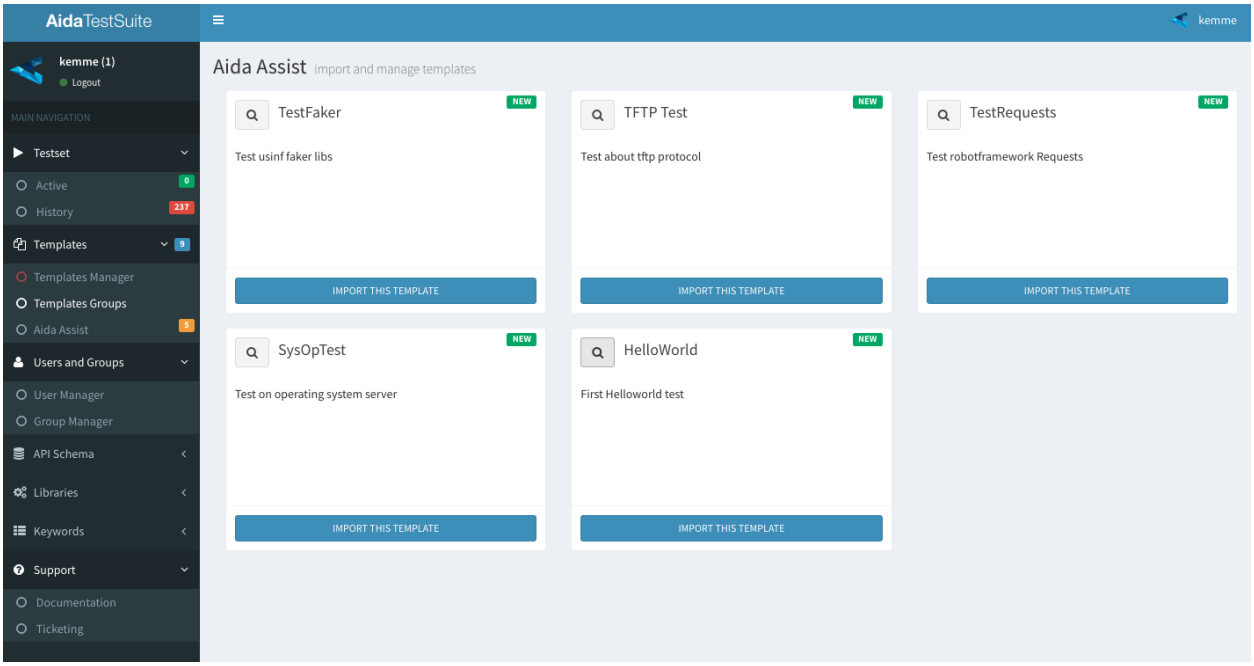

Select KEYWORD to change
ADD KEYWORD +
Action: --------- Go 0 of 100 selected
DESCR
HUMAN
PERSONAL KEYWORD
... ...
\ \
Add Cookie Add Cookie
Add Location Strategy Add Location Strategy
Alert Should Be Present Alert Should Be Present
Alert Should Not Be Present Alert Should Not Be Present
[Arguments] [Arguments]
Assign Id To Element Assign Id To Element
Capture Page Screenshot Capture Page Screenshot
Checkbox Should Be Selected Checkbox Should Be Selected
Checkbox Should Not Be Selected Checkbox Should Not Be Selected
Choose Cancel On Next Confirmation Choose Cancel On Next Confirmation
Choose File Choose File
Choose Ok On Next Confirmation Choose Ok On Next Confirmation
Clear Element Text Clear Element Text
Click Button Click Button
Click Element Click Element
Click Element At Coordinates Click Element At Coordinates
Click Image Click Image
FILTER
By Personal Keyword
All
Yes
No


Add KEYWORD
Descr:
Human:
Personal Keyword
API Owner: ---------
Save and add another
Save and continue editing
SAVE

template simply modifying the description in the Human field.

5.5 Aida Assist

Aida Assist is the innovative interface of the aida project that allows you to import ad-hoc test templates from a Cathedral's owner artificial intelligence engine that, by analyzing the use of the suite learns always with more precision what the habits about the user's Test Strategies and creates templates ready to import and use / modify within your suite.



Using the magnifying glass located above each frame, you can go to see the template structure:

Variables	
${FORM_URL}	http://www.google.com
${INDEX}	20
${TEXT}	google
@{USER}	robot secret

Settings	
Documentation	ccc
Library	Selenium2Library
Test Setup	Open Browser And Go To Page
Test Teardown	Close Browser

Test Case					
Test Case Hello	[Documentation]	When visit the page it should show the text Aida			
	Page Should Contain	${TEXT}			
TestCase2	:FOR	${INDEX}	IN	3	7
		Log	Ciao1		
		Log	Ciao2		
	Add Cookie	test			
AnotherOpTest	Click Button	OK			
FakerLibrary Words Generation	Log	Ciao			

Keywords		
Open Browser And Go To Page	Open Browser	${FORM_URL}

To directly import one or more templates into your environment it is sufficient to select the template and click on the

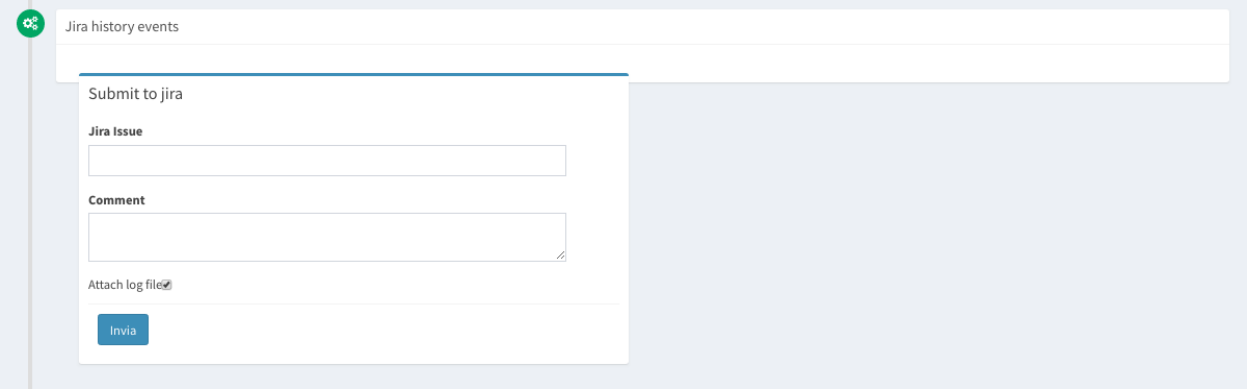
"IMPORT THIS TEMPLATE" button. At this point the template and all its configuration will be present among your data, you can launch tests directly or go to change it as you see fit.

CHAPTER 6

Advanced Usage

6.1 Integration with Jira

The aida suite integrates the ability to send the results of every single test finished to Jira, specifying the number of Issues to which you want to refer. To perform this operation it is sufficient to select the desired thread from the "History" mask, then every single execution (if the test has been performed repeatedly), if the Jira configuration has been set, it will be possible to connect the data between the two systems.

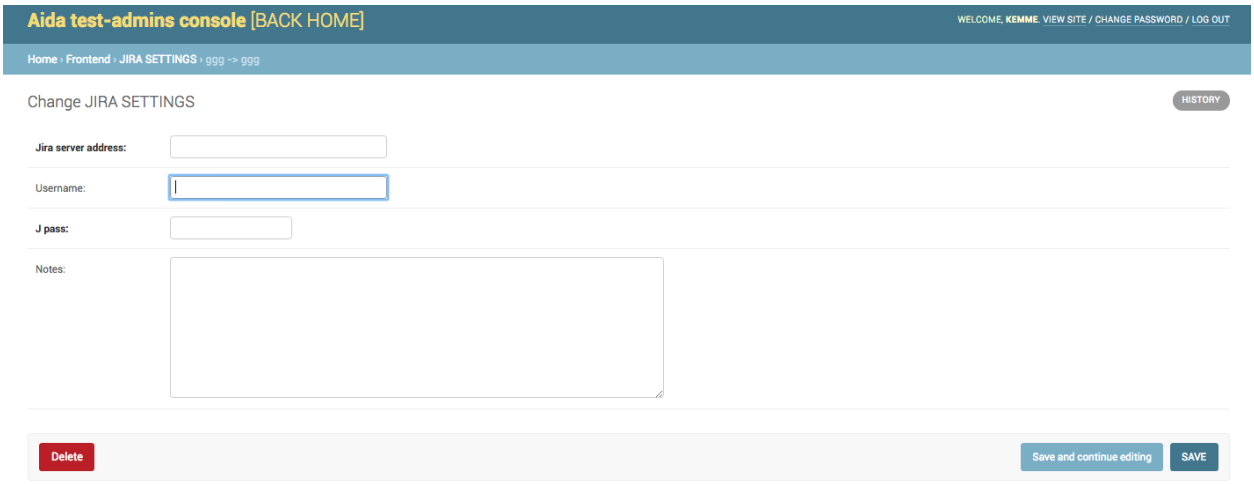


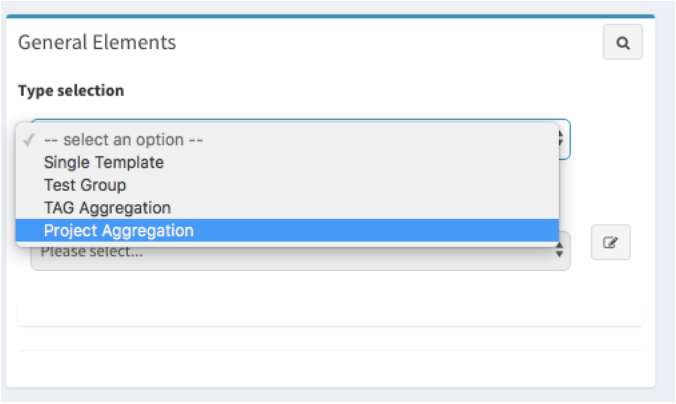
To ensure that the ability to send data to Jira is activated, it is necessary to specify the connection parameters to your Jira server from the "Template Manager" by selecting the "JIRA SETTINGS" option.

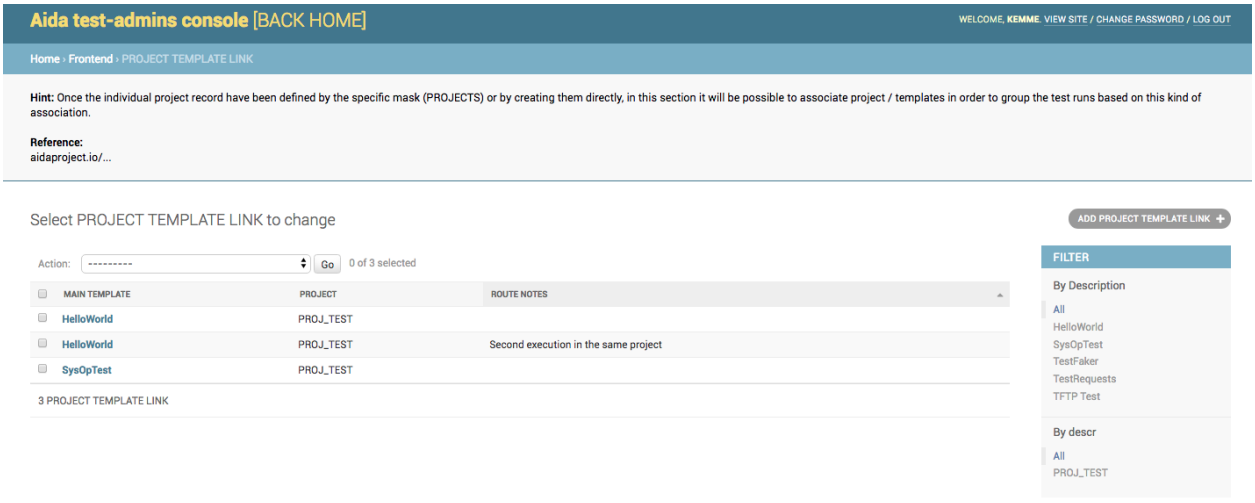
6.2 The Project Template link

Through the use of the Project Template link it is possible to group templates in specific projects in order to be able to execute several templates simultaneously by selecting the relative project.

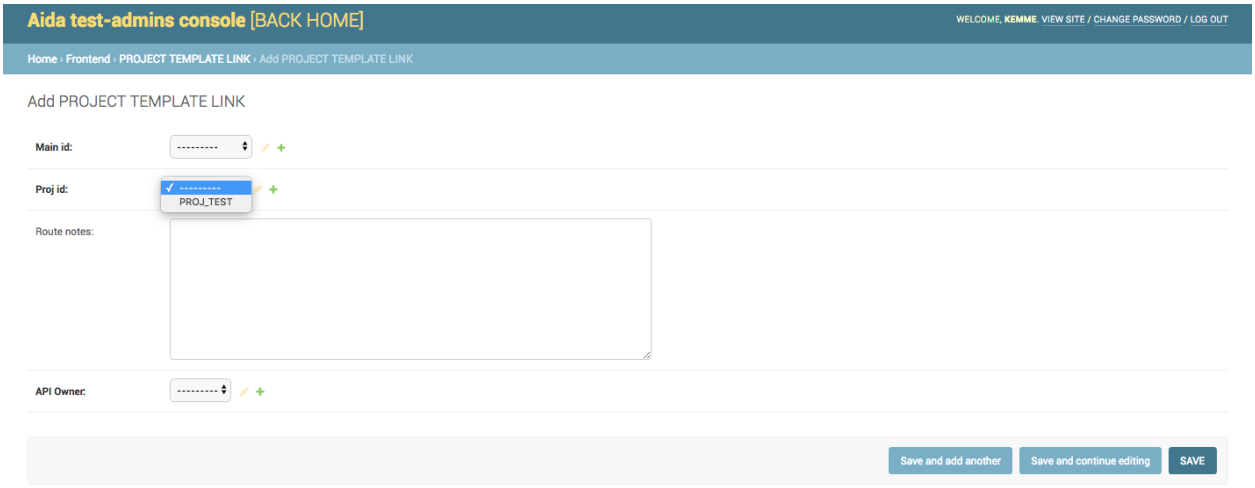
To manage the Templates / Projects association, select the "PROJECT TEMPLATE LINK" link in the Template Manager


Aida test-admins console [BACK HOME]
WELCOME, KEMME. VIEW SITE / CHANGE PASSWORD / LOG OUT
Home › Frontend › JIRA SETTINGS › ggg -> ggg
Change JIRA SETTINGS
HISTORY
Jira server address:
Username:
J pass:
Notes:
Delete
Save and continue editing
SAVE


General Elements
Type selection
-- select an option --
Single Template
Test Group
TAG Aggregation
Project Aggregation
Please select...

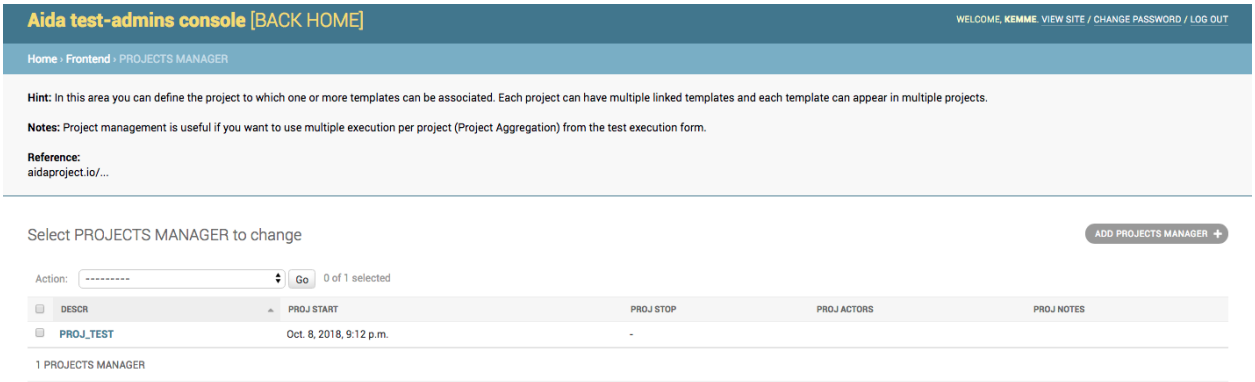

Aida test-admins console [BACK HOME]
WELCOME, KEMME. VIEW SITE / CHANGE PASSWORD / LOG OUT
Home › Frontend › PROJECT TEMPLATE LINK
Hint: Once the individual project record have been defined by the specific mask (PROJECTS) or by creating them directly, in this section it will be possible to associate project / templates in order to group the test runs based on this kind of association.
Reference:
aidaproject.io/...
Select PROJECT TEMPLATE LINK to change
ADD PROJECT TEMPLATE LINK
Action:
Go
0 of 3 selected
MAIN TEMPLATE
PROJECT
ROUTE NOTES
HelloWorld
PROJ_TEST
HelloWorld
PROJ_TEST
Second execution in the same project
SysOpTest
PROJ_TEST
3 PROJECT TEMPLATE LINK
FILTER
By Description
All
HelloWorld
SysOpTest
TestFaker
TestRequests
TFTP Test
By descr
All
PROJ_TEST

To associate an existing Template with a project it is necessary to use the selection areas from the add / modify mask. If no project is present or if it is necessary to create a new one, it is sufficient to use the "**+**" button next to the "Proj ID" area



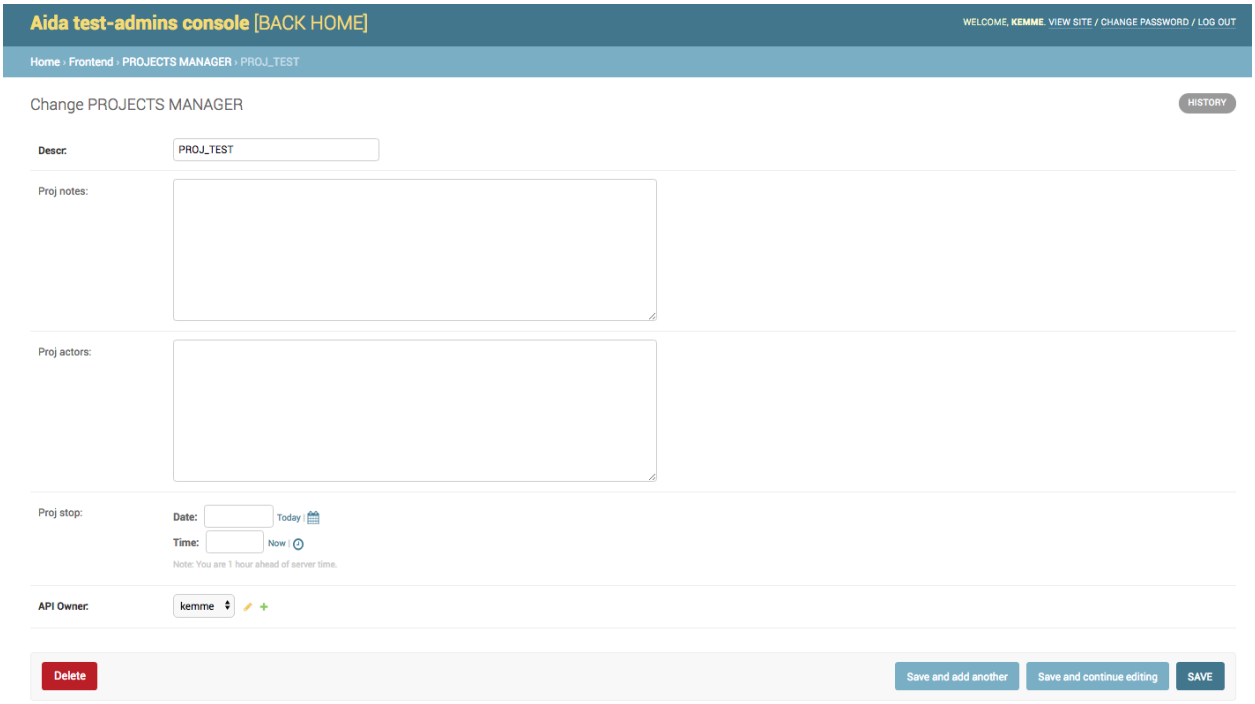
6.3 Project Manager

Through the use of the "Projrct Manager" function it is possible to create projects containers, associating management parameters with them. To create a new project, select the "**PROJECTS MANAGER**" menu from the Template Manager.



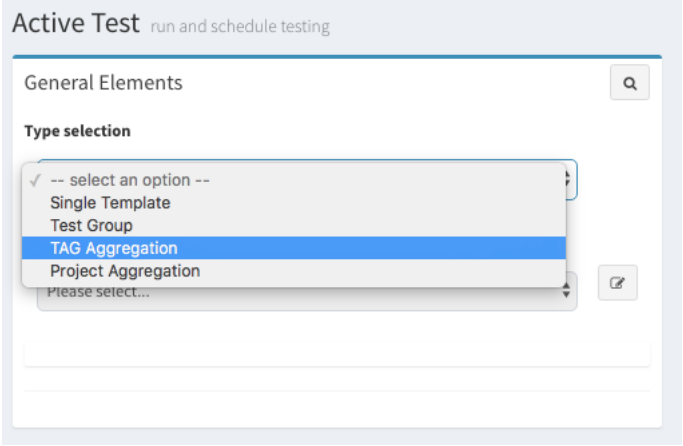
Using the function of adding or modifying a project, the fields of the mask will be displayed. Through this page it will be possible, besides giving the project name, to add any notes, add actors to the project and define a date and a closing time of the project itself.

Note: The project will be visible and usable to perform the tests contained until the stop date. Once finished, it will no longer be possible to select this project to run the tests contained in it.



6.4 The TAGS Templates Link

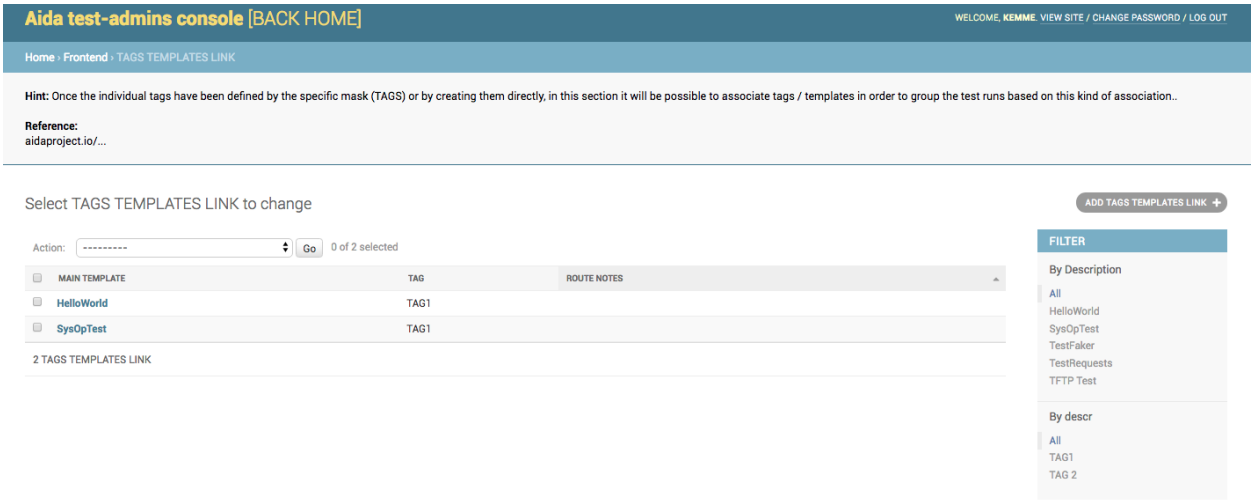
Aida allows the use of TAGs to identify, grouping and execute bunch of different templates at the same time.

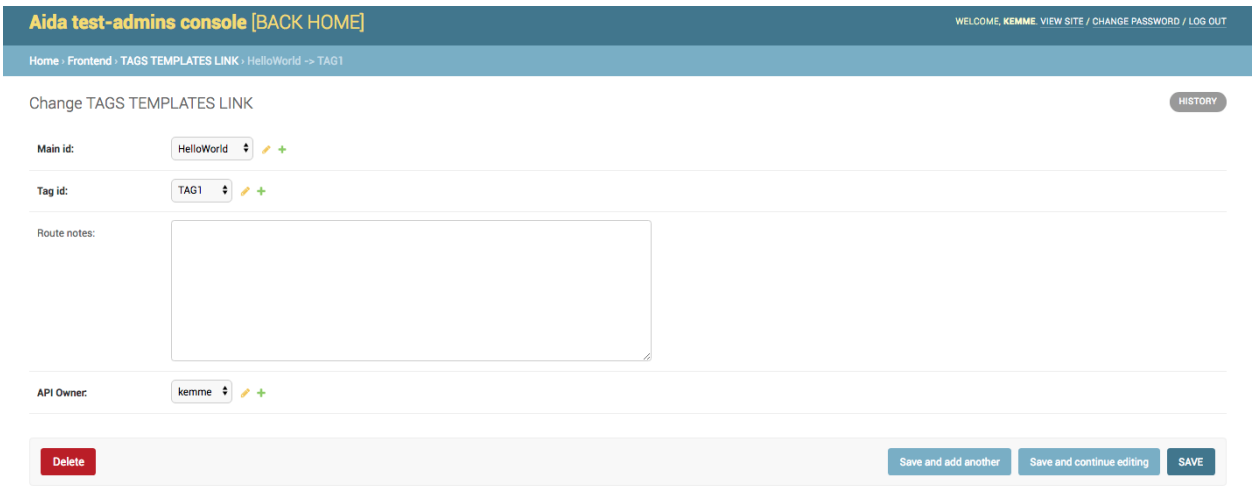


To create the TAG / Templates association, open the "**TAGS TEMPLATES LINK**" link from the template manager

In the edit / insert management mask it is possible to associate a template with a specific TAG, to do this select the Template in the **Main Id** field and the tag in **Tag Id** option.

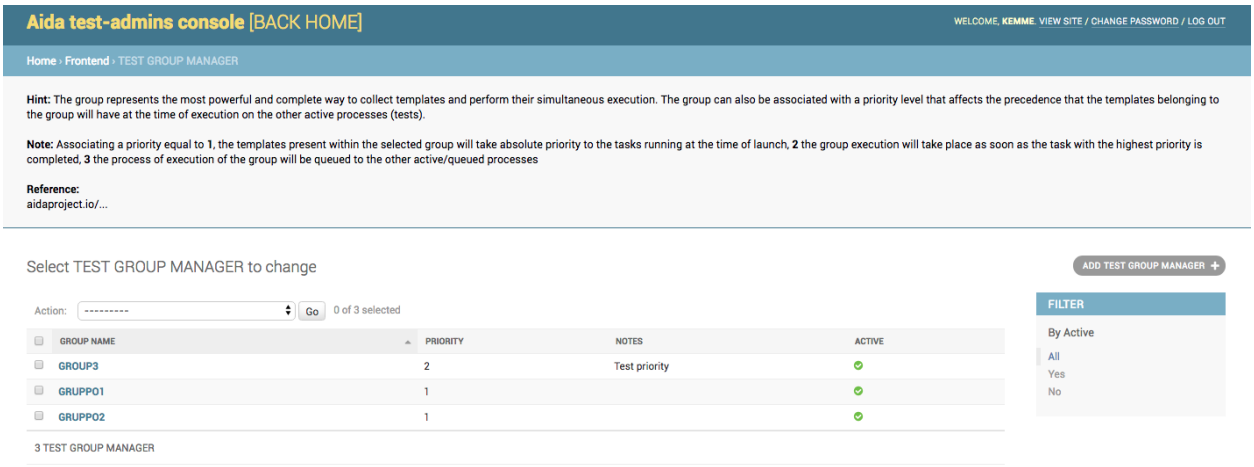
Note: The main difference between the project / template association and the TAG / template association lies in the fact that the former refers to a project with its own life cycle while the latter is a bookmark of one or more groups of templates.


Aida test-admins console [BACK HOME]
WELCOME, KEMME. VIEW SITE / CHANGE PASSWORD / LOG OUT
Home › Frontend › TAGS TEMPLATES LINK
Hint: Once the individual tags have been defined by the specific mask (TAGS) or by creating them directly, in this section it will be possible to associate tags / templates in order to group the test runs based on this kind of association..
Reference:
aidaproject.io/...
Select TAGS TEMPLATES LINK to change
ADD TAGS TEMPLATES LINK +
Action: --------- Go 0 of 2 selected
MAIN TEMPLATE
TAG
ROUTE NOTES
HelloWorld
TAG1
SysOpTest
TAG1
2 TAGS TEMPLATES LINK
FILTER
By Description
All
HelloWorld
SysOpTest
TestFaker
TestRequests
TFTP Test
By descr
All
TAG1
TAG 2

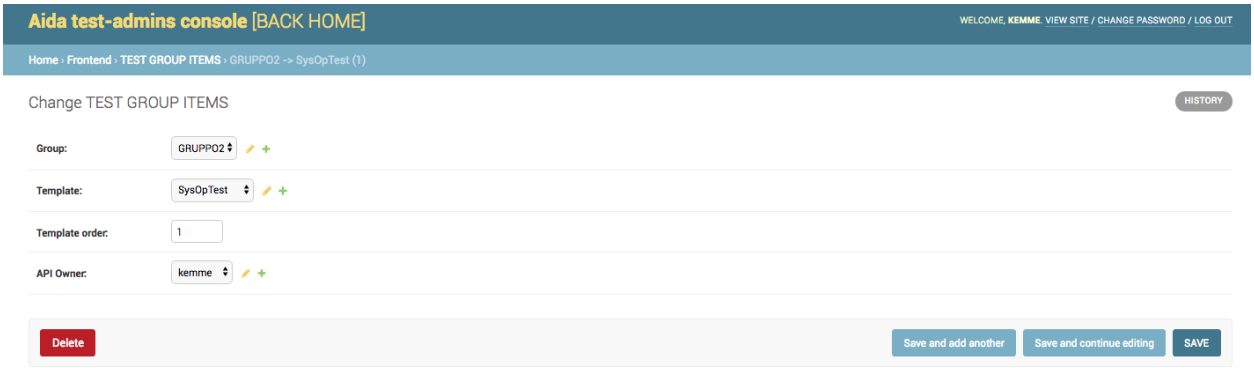

Aida test-admins console [BACK HOME]
WELCOME, KEMME. VIEW SITE / CHANGE PASSWORD / LOG OUT
Home › Frontend › TAGS TEMPLATES LINK › HelloWorld -> TAG1
Change TAGS TEMPLATES LINK
HISTORY
Main id:
HelloWorld
Tag id:
TAG1
Route notes:
API Owner:
kemme
Delete
Save and add another
Save and continue editing
SAVE

6.5 Test Group Manager

A more complex way of managing the test groups is that linked to the function called "**TEST GROUP MANAGER**", accessible through the Template Manager mask



Through the use of the group creation / modification mask it is possible to associate a priority to it so that, in the case of launches of several concurrent groupings, those with lower priority obtain the precedence of execution on the others at the resource allocation level of the test engine.

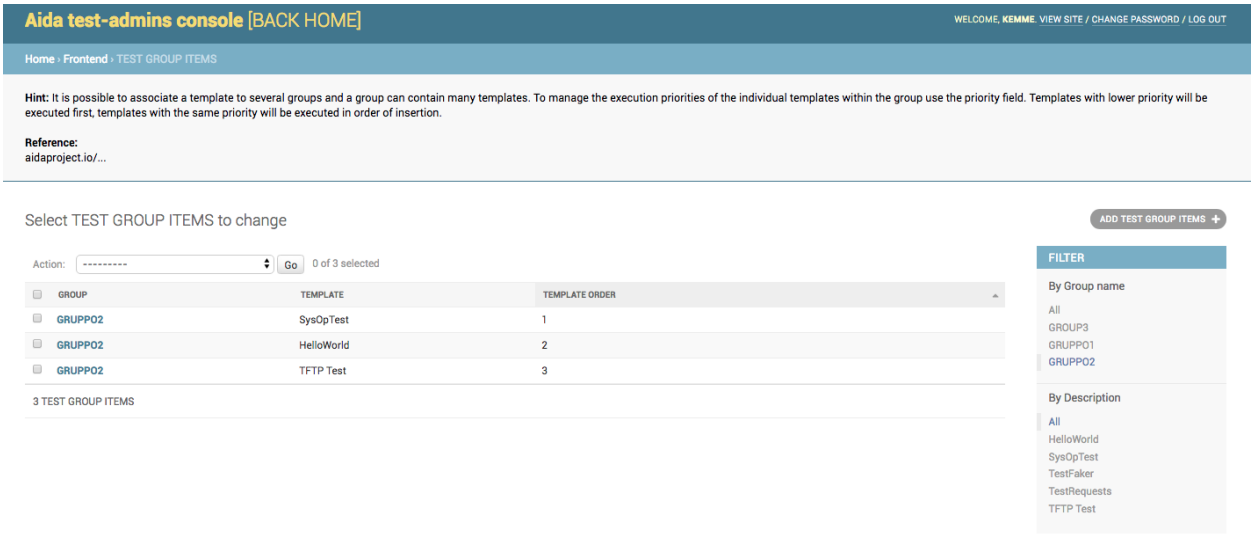


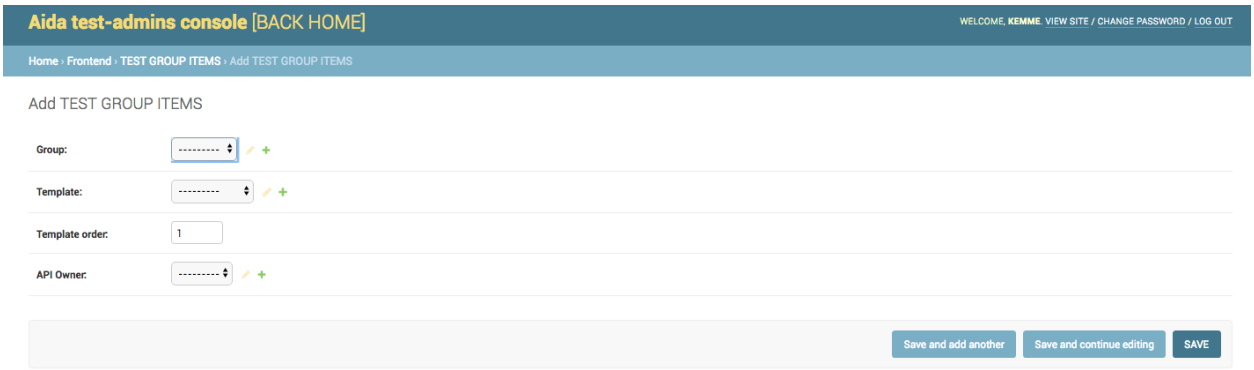
6.6 Test Group Item

After creating the group, it is necessary to associate the templates that you want to run together

---

Note: When you insert a template within a group it is possible to define the order of execution of each one of it. Templates with lower priority will be executed first, in order of priority. In case of equal priority level the templates will be executed in order of insertion.


Aida test-admins console [BACK HOME]
WELCOME, KEMME. VIEW SITE / CHANGE PASSWORD / LOG OUT
Home › Frontend › TEST GROUP ITEMS
Hint: It is possible to associate a template to several groups and a group can contain many templates. To manage the execution priorities of the individual templates within the group use the priority field. Templates with lower priority will be executed first, templates with the same priority will be executed in order of insertion.
Reference:
aidaproject.io/...
Select TEST GROUP ITEMS to change
ADD TEST GROUP ITEMS
Action: --------- Go 0 of 3 selected
GROUP
TEMPLATE
TEMPLATE ORDER
GRUPPO2 SysOpTest 1
GRUPPO2 HelloWorld 2
GRUPPO2 TFTP Test 3
3 TEST GROUP ITEMS
FILTER
By Group name
All
GROUP3
GRUPPO1
GRUPPO2
By Description
All
HelloWorld
SysOpTest
TestFaker
TestRequests
TFTP Test

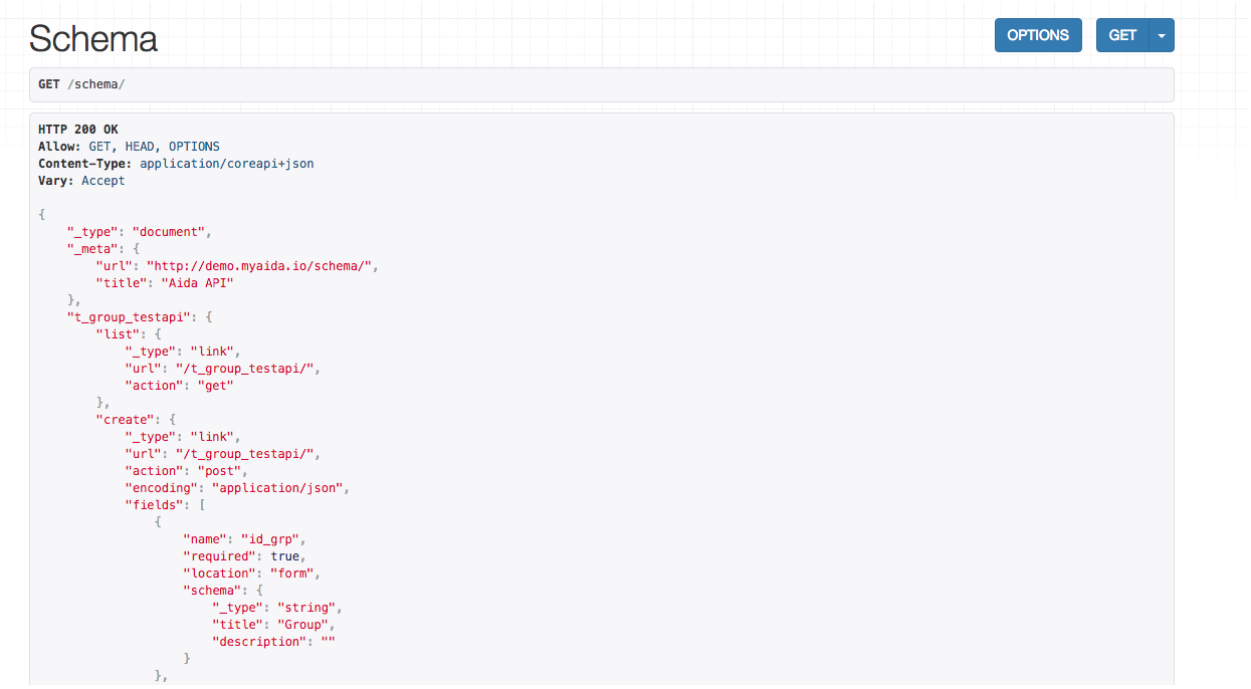

Aida test-admins console [BACK HOME]
WELCOME, KEMME. VIEW SITE / CHANGE PASSWORD / LOG OUT
Home › Frontend › TEST GROUP ITEMS › Add TEST GROUP ITEMS
Add TEST GROUP ITEMS
Group: ---------
Template: ---------
Template order: 1
API Owner: ---------
Save and add another
Save and continue editing
SAVE

CHAPTER 7

API Documentation

Aida integrates the ability to interact with its database through API interface. Using methods calls like GET, POST, DELETE, PUT, it is possible to interface with external programs or to perform extractions, insertions, table updates directly from code.

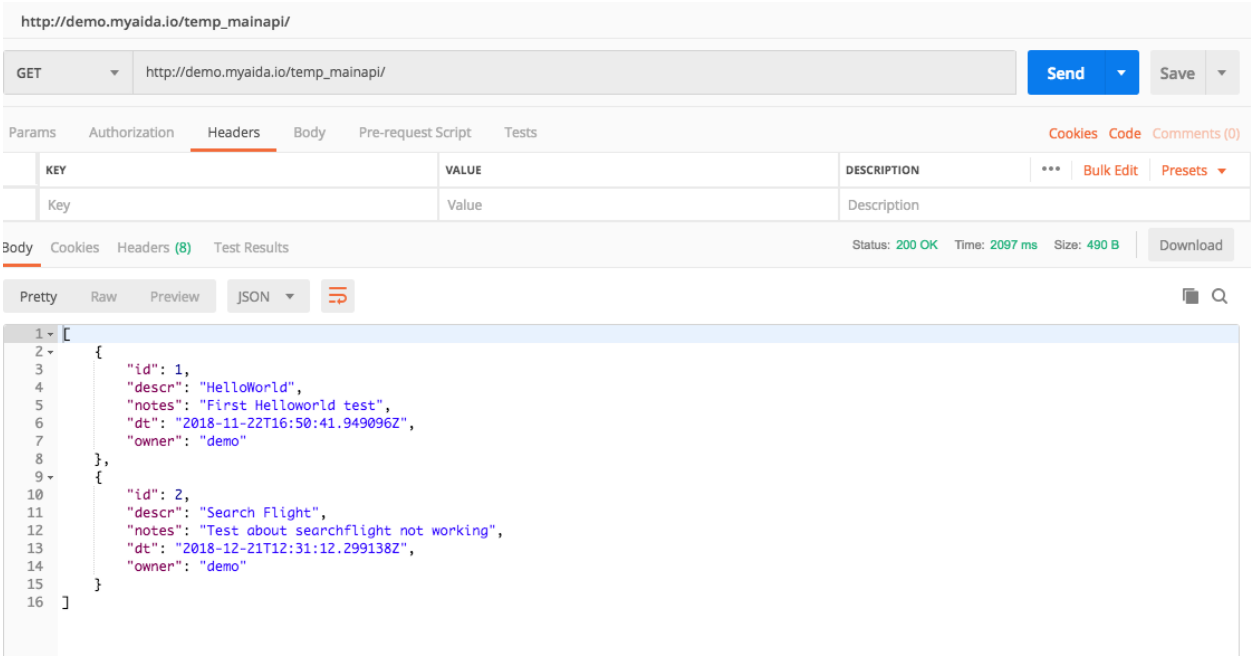
Using the link in the main menu "**Schema API**" it will be possible to display the page relative to the published schema of the aida tables, the manageable fields and their type and methods.



Warning: Methods such as INSERT, DELETE, PUT make table changes without requiring confirmation. The use of this type of interaction should only be used in cases where it is absolutely safe not to cause damage to

the entire system, incorrect use could lead to the impossibility of using aida with the consequent risk of irreversible data loss.

Here an example of a GET call from a GUI tools (postman) to the template description table



A python GET call example for reteive the same data and manage its as a json object.

```
import requests

# api-endpoint
URL = "http://demo.myaida.io/temp_mainapi/"

# param defined here
user_name = "demo"
pass = "xxxxxxx"

# defining a params dict for the parameters to be sent to the API
PARAMS = {'username':user_name, 'password':pass}

# sending get request and saving the response as response object
r = requests.get(url = URL, params = PARAMS)

# extracting data in json format
data = r.json()
```

and with Java:

```
String urlString = "http://demo.myaida.io/temp_mainapi/?username=demo&password=xxxxx..
↪..";
URL url = new URL(urlString);
URLConnection conn = url.openConnection();
InputStream is = conn.getInputStream();
// Do what you want with that stream
```

In this way you can carry out any type of operation on every Aida table from external programs or sources, allowing you to interface virtually any application to your test suite.

7.1 List of browseable tables

7.1.1 temp_main

Table containing the basic configuration data of the template such as name, notes, etc.

```
# api-endpoint
URL = "<your aida address>/temp_mainapi/"
```

7.1.2 temp_case

Table containing all the test cases defined in aida and their association with the template.

Note: Foreign keyword in table:

main_id -> temp_main.id

```
# api-endpoint
URL = "<your aida address>/temp_caseapi/"
```

7.1.3 temp_keywords

Table containing all the keywords defined at the level of the aida system for the creation of test cases; among the various fields are the name of the key, its most "human" definition and whether it is a standard or customized key

```
# api-endpoint
URL = "<your aida address>/temp_keywordsapi/"
```

7.1.4 temp_variables

Table for mapping the key / value association with the defined variables and their connection to the main template

Note: Foreign keyword in table:

main_id -> temp_main.id

```
# api-endpoint
URL = "<your aida address>/temp_variablesapi/"
```

7.1.5 temp_pers_keywords

Table that keeps the memory relatively the association of several keywords between them so as to be able to create complex "Keywords" sections of the test

---

Note: Foreign keyword in table:

main_id -> temp_main.id

standard_id -> temp_keywords.id

pers_id -> temp_keywords.id

```
# api-endpoint
URL = "<your aida address>/temp_pers_keywordsapi/"
```

7.1.6 temp_test_keywords

Table containing the data for the creation of the internal structure of the Test Case, a value / key grouping for each template

---

Note: Foreign keyword in table:

main_id -> temp_main.id

test_id -> temp_case.id

key_id -> temp_keywords.id

```
# api-endpoint
URL = "<your aida address>/temp_test_keywordsapi/"
```

7.1.7 temp_library

Table containing all the data entered in the Test settings session, includes type of setting (Library, Resource, Test setup, Test Teardown, etc.), the value and the associated template.

Note: Foreign keyword in table:

main_id -> temp_main.id

```
# api-endpoint
URL = "<your aida address>/temp_libraryapi/"
```

7.1.8 t_group

Table containing data relating to the test groups created.

```
# api-endpoint
URL = "<your aida address>/t_groupapi/"
```

7.1.9 t_group_test

Table containing the group template association

Note: Foreign keyword in table:

id_grp -> t_group.id

id_temp -> temp_main.id

```
# api-endpoint
URL = "<your aida address>/t_group_testapi/"
```

7.1.10 t_history

One of the main tables contains all the data relating to the execution of the tests, including the outputs in the xml and html formats of the results.

Note: Foreign keyword in table:

test_main -> temp_main.id

group_id -> t_group.id

```
# api-endpoint
URL = "<your aida address>/t_historyapi/"
```

7.1.11 t_threads

Contains all the data relating to the threads that have been executed or are still running. Combined with the t_history table, it provides a complete overview of each test run process

Note: Foreign keyword in table:

id_test -> t_history.id

```
# api-endpoint
URL = "<your aida address>/t_threadsapi/"
```

7.1.12 t_tags

Table containing all user-defined tags

```
# api-endpoint
URL = "<your aida address>/t_tagsapi/"
```

7.1.13 t_tags_route

Table showing the Tag / Templates association

Note: Foreign keyword in table:

main_id -> temp_main.id

tag_id -> t_tags.id

```
# api-endpoint
URL = "<your aida address>/t_tags_routeapi/"
```

CHAPTER 8

Support

Aida support is carried out by a dedicated team inside cathedral (cathedral.ai), selected and highly specialized in the use of the product and in the field of QA and testing in general. The three main channels to open and manage a report or request information regarding the aida suite are:

- By pone
- By Email
- Using the personal realtime aida assistant

8.1 Contacting aida's team by phone

You can contact every day, 24 hours aida team using the phone number **0039-030-7778742** and leaving your message on the answering machine, including contact details about where possible to re-contact you.

As soon as one of our operators takes charge of your request, he will contact you back.

Note: The Aida's help desk office is located in Italy, the national or international call to this country could have a high cost if not supported by your telephone operator.

8.2 Email support

It is also possible to contact aida technical assistance through the email address **4u@cathedral.ai**. Your report will be handled by our dedicated staff who will contact you as soon as possible.

8.3 Using the personal realtime aida assistant

Aida's personal virtual assistance is the most complete and immediate assistance / consultancy tool. Within each aida environment there is a link located at the bottom right

through which you can interact in real-time h24 with a dedicated consultant specialized in the aida's use and management for:

- Request information regarding the use of aida
- Request check and management in the process of creating / managing templates
- Report any malfunctions
- Request commercial assistance

Through the use of the virtual assistant, the dedicated staff of aida will be able to assist you by interacting directly with your aida environment in real time; this tool is included in all commercial plans.

CHAPTER 9

Something About Aida

Aida ATM (Automation Test Suite) allows you to create, manage, plan and perform independently any type of test on any type of software / firmware.. A vital feature for every business in every industrial sector.

Aida offers a native integration with roboframework and selenium, it uses a fast and intuitive graphic interface for the creation of its test templates and allows the importation of any existing .robot files inside the suite. In addition, the "Standalone" version allows you to write and import custom test libraries into Aida and integrate them automatically with the entire process.

The main advantages of using Aida are:

- Management of the Testset as template; possibility of multiple launches contemporary with different variables
- Quick and intuitive template writing
- Integration with every type of python library
- Reporting and analysis in real time
- Integration with AI algorithms for anticipated prediction of the tests results