



MED Food TTHubs - Trace & Trust Hubs for MED Food

Grant Agreement No 1931

Med Food TTHubs e-Platform Step-by-Step Guide:

Creation/Management of Isotopic Profiles

(Local Administrator)

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Table of Contents

1. Aim 4

2. Sign-in Process..... 5

2.1. For the web: 5

3. Isotopic..... 7

1. Aim

The user with the role Local Administrator enters the platform and creates or manage an Isotopic Profile which is connected to a specific brick of GPC (Global Product Classification - <https://www.gs1.org/standards/gpc – Segment 50>).

The collection of isotopic data during the analysis of samples of agricultural products or foodstuffs has a double role. At first, it can be obtained an isotopic characterization of a given agricultural product or food. Secondly, and in fact more beneficially, the treatment of data with chemometrics may provide a unique “isotopic fingerprint” that may lead to a decision rule about the determination of geographical origin of the product of interest and the construction of isotopic databases through consecutive research. TTHubs e-platform is acting as a repository of Isotopic Profiles which can be attached to specific Template Products. The e-platform also provides the capability to users to check whether the Isotopic Profile of a specific product is corresponding (similarity test) to the Isotopic Profile of the Template Product to which the specific Product claims to be connected with.

2. Sign-in Process

2.1. For the web:

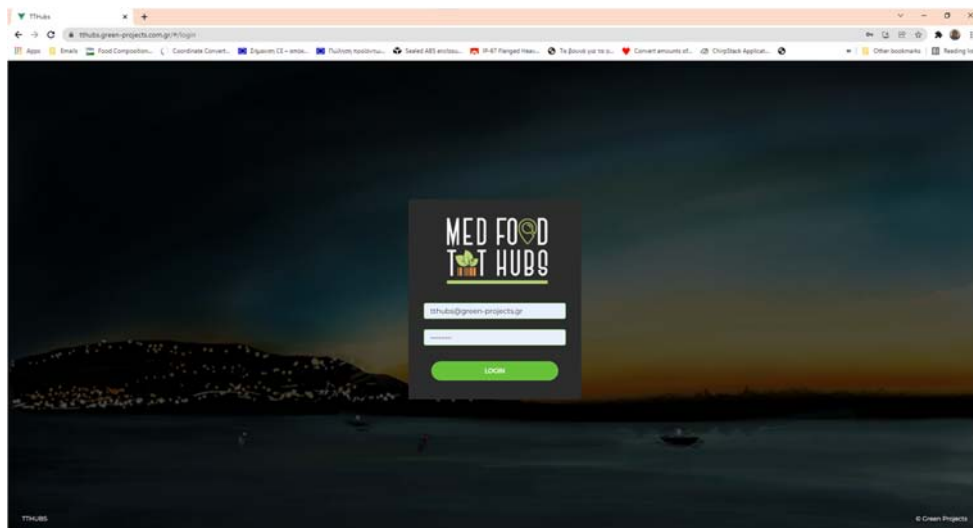
Link: <https://tthubs.green-projects.com.gr/>

Username: tthubs-local-admin@green-projects.gr

Password: greengreen

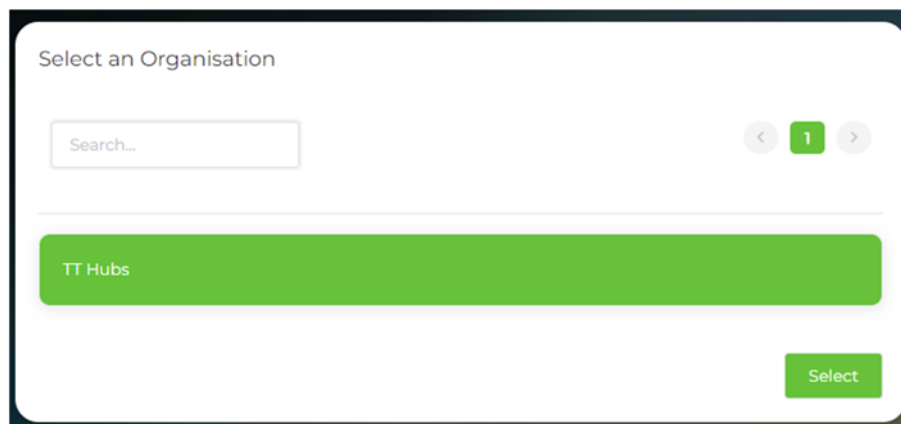
Attention!: for this use case a user with the role of Local Administrator shall be used

Sign in page





Select Organisation.

Each user may belong to one or more organisations and may have one or more roles. The user tthubs-local-admin@green-projects.gr belongs to TT Hubs Organisation and he/she has the role of Farmer/Breeder/Packer/Seller.



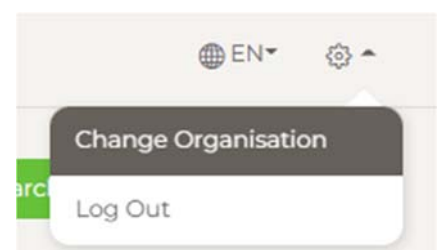
Left Menu – Select e-platform area



Based on the role(s) that each user has the relevant menu items are visible. The menu is foldable by pressing . Buttons  support the navigation in the platform and the return to homepage (Places→Map).

Select Language and other choices

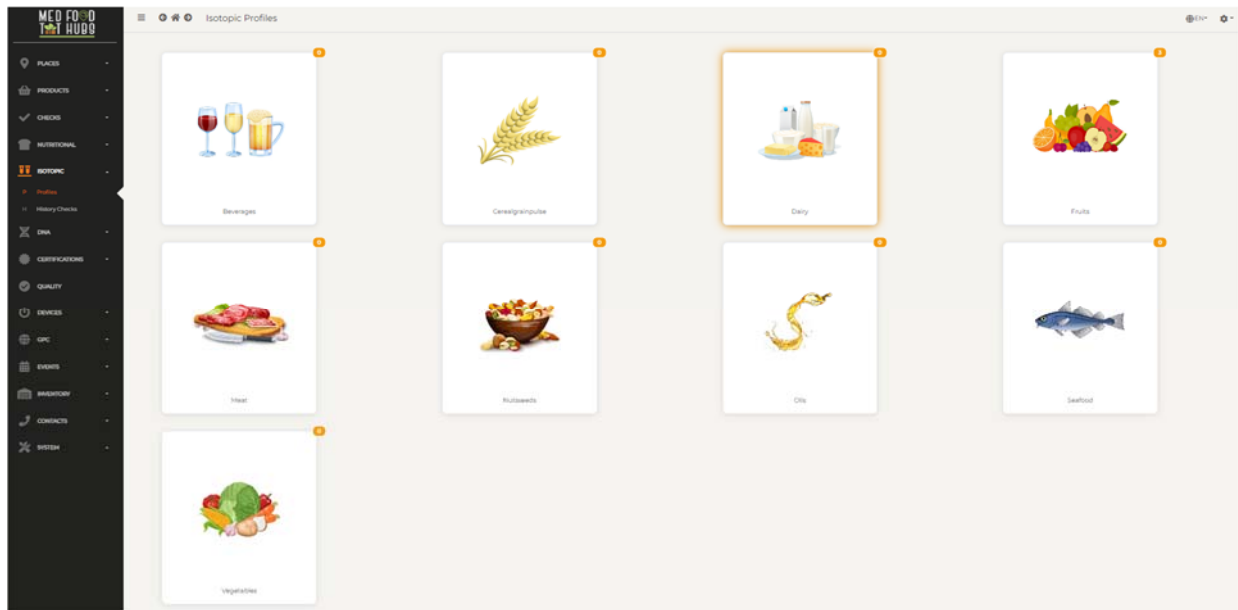
On each page of the platform there is a menu at the upper right corner allowing the selection of the language (the platform will be available in English, Greek, Italian, Spanish, Portuguese and Arabic – the multilinguistic operation of the platform is not yet fully functional). There are also choices for changing the selected organisation, if the use belongs to more than one organisation and for log out.



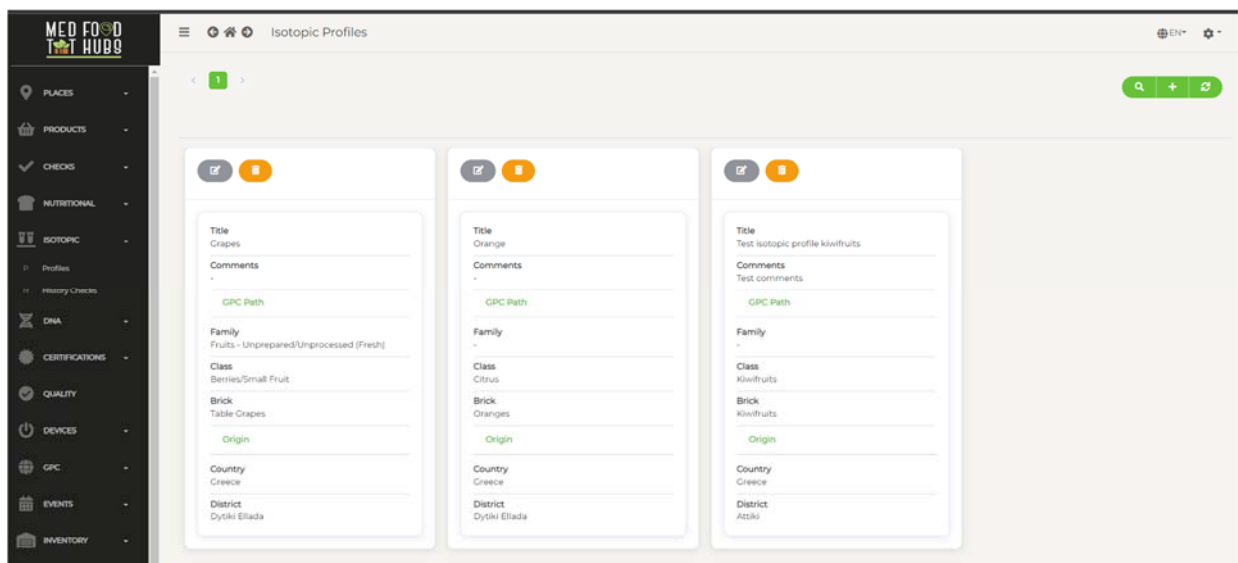
3. Isotopic


Under the menu Isotopic two choices are found: “Profiles” and “History Checks”.

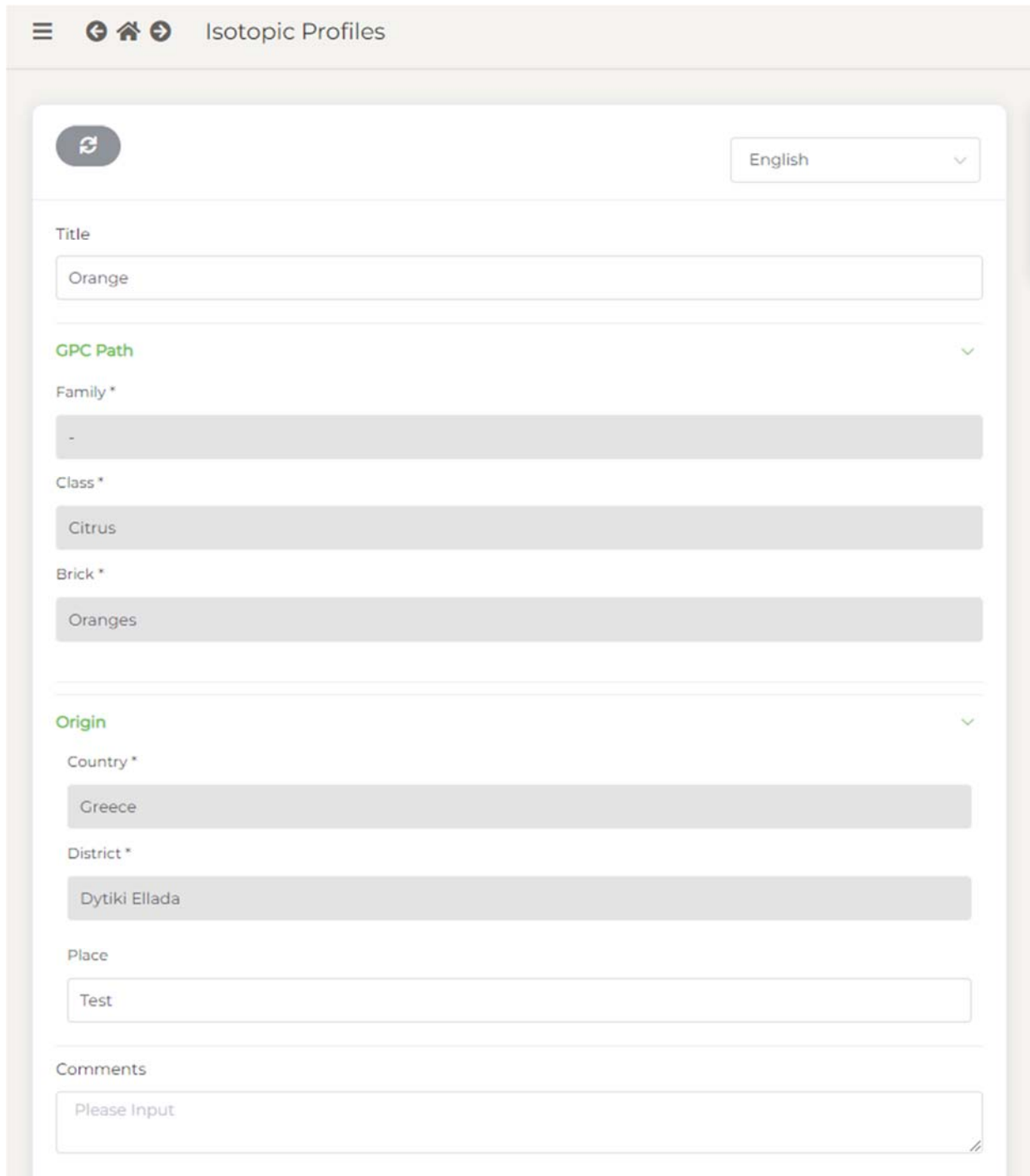
The choice “Profiles” shows a list of product categories is available to the user to select. For each category the number of available Isotopic Profiles is shown.



After selecting a category, a list of Isotopic Profiles is shown to the user. In this example the category “Fruits” has been selected. An Isotopic Profile is an entity that has specific values of Isotopic Parameters which describe this product.



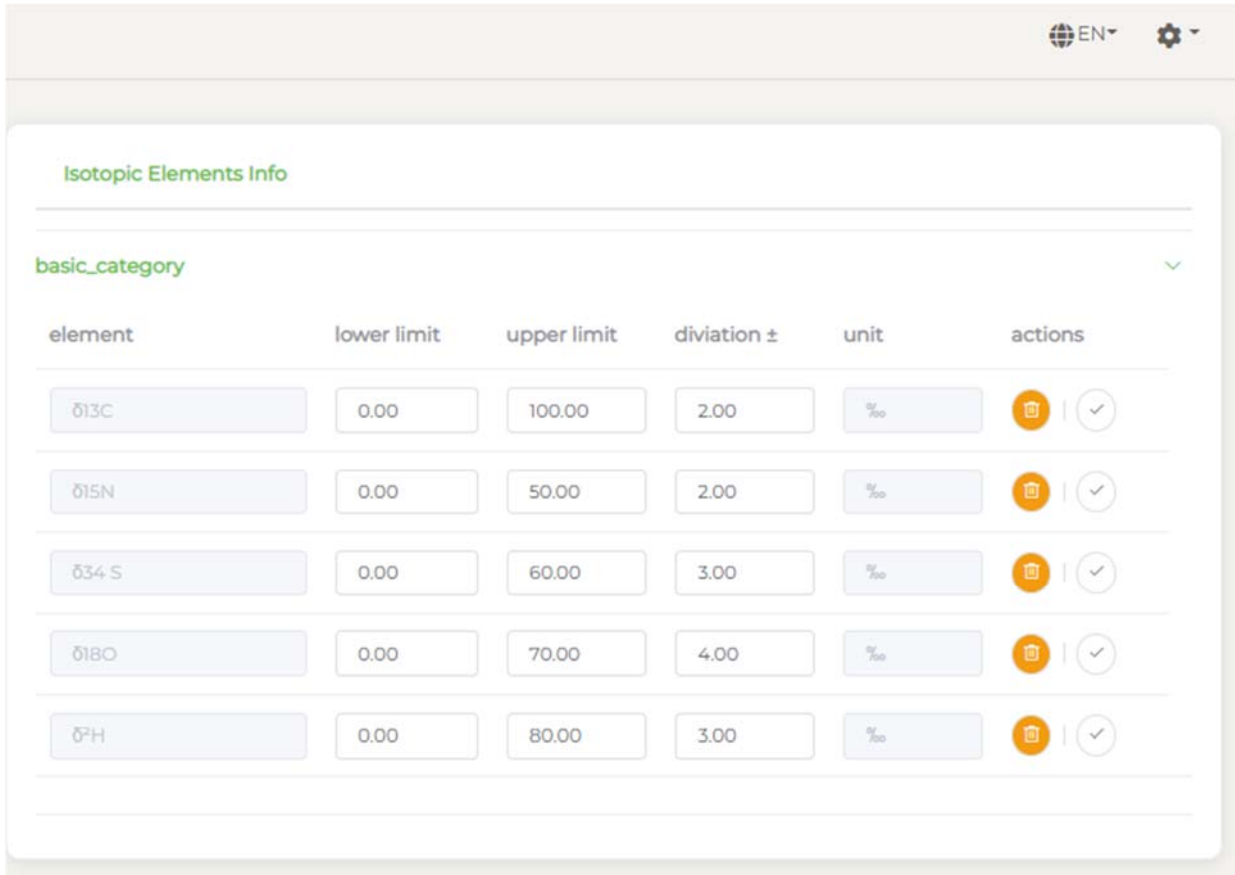
By selecting the button  the details of the selected profile are available to the user. These details include at the left side of the page the GPC path (at Brick level), the place where this isotopic profile is found and some comments.



The screenshot shows a web interface titled "Isotopic Profiles". At the top left, there are navigation icons (hamburger menu, back, home, forward) and a refresh button. A language dropdown menu is set to "English". The main content area is divided into sections:

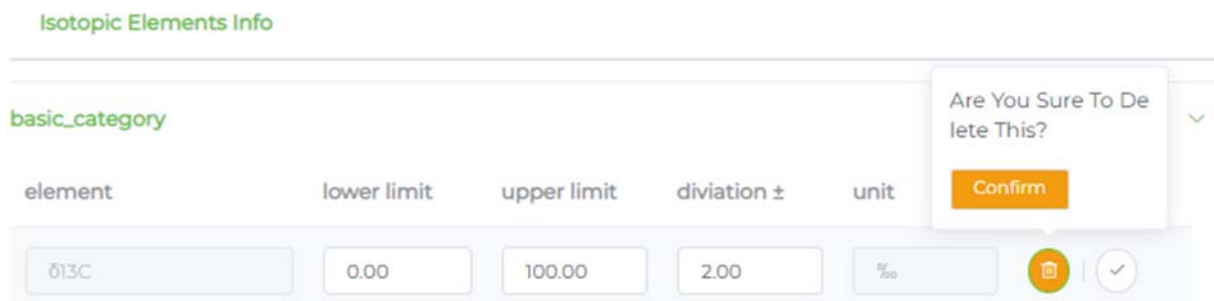
- Title:** A text input field containing "Orange".
- GPC Path:** A section header with a dropdown arrow. It contains three required fields:
 - Family *:** A text input field containing "-".
 - Class *:** A text input field containing "Citrus".
 - Brick *:** A text input field containing "Oranges".
- Origin:** A section header with a dropdown arrow. It contains three required fields:
 - Country *:** A text input field containing "Greece".
 - District *:** A text input field containing "Dytiki Ellada".
 - Place:** A text input field containing "Test".
- Comments:** A text area containing the placeholder text "Please Input".


At the right side of the page the limits (upper & lower) for each isotopic element along with the corresponding deviation is shown for the specific isotopic profile.

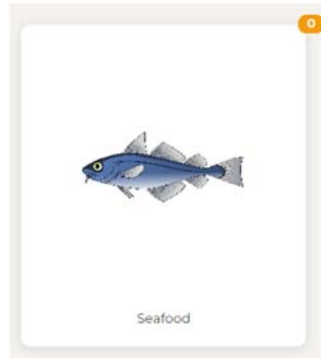


For each element the values can be updated by selecting the button

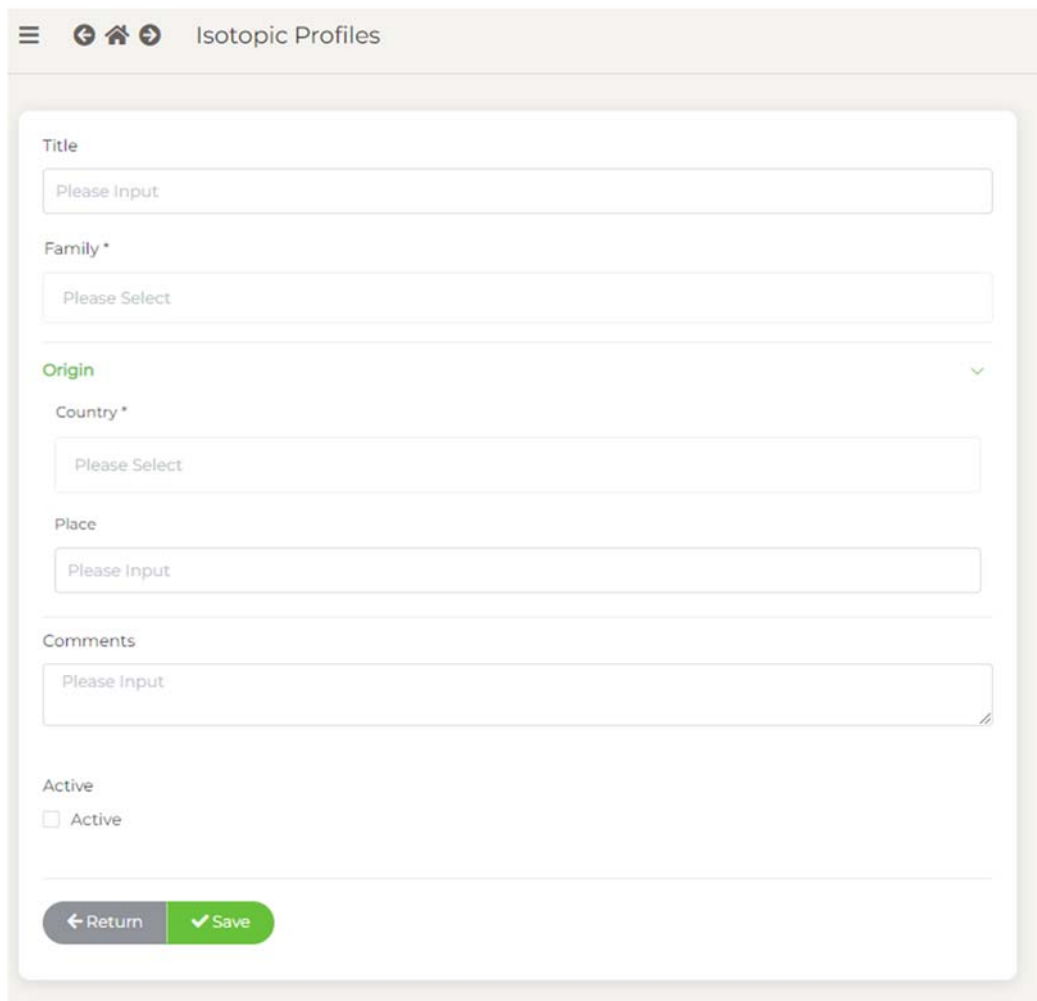
Furthermore, the values can be reset by selecting the button and by confirming the reset process.



In order to create a new Isotopic Profile, the user shall select the corresponding category (e.g. Seafood for our example) and then select the button  at the upper right side of the page.



An empty form of the Isotopic Profile is opened and the user shall fill in the necessary information.



The screenshot shows a mobile application interface for creating an isotopic profile. The title bar at the top reads "Isotopic Profiles" and includes navigation icons. The form contains the following fields:

- Title:** A text input field with the placeholder "Please Input".
- Family *:** A dropdown menu with the placeholder "Please Select".
- Origin:** A section header with a green checkmark icon.
- Country *:** A dropdown menu with the placeholder "Please Select".
- Place:** A text input field with the placeholder "Please Input".
- Comments:** A text area with the placeholder "Please Input".
- Active:** A checkbox labeled "Active", which is currently unchecked.

At the bottom of the form, there are two buttons: a grey "Return" button with a left arrow and a green "Save" button with a checkmark.

These details include the following information:

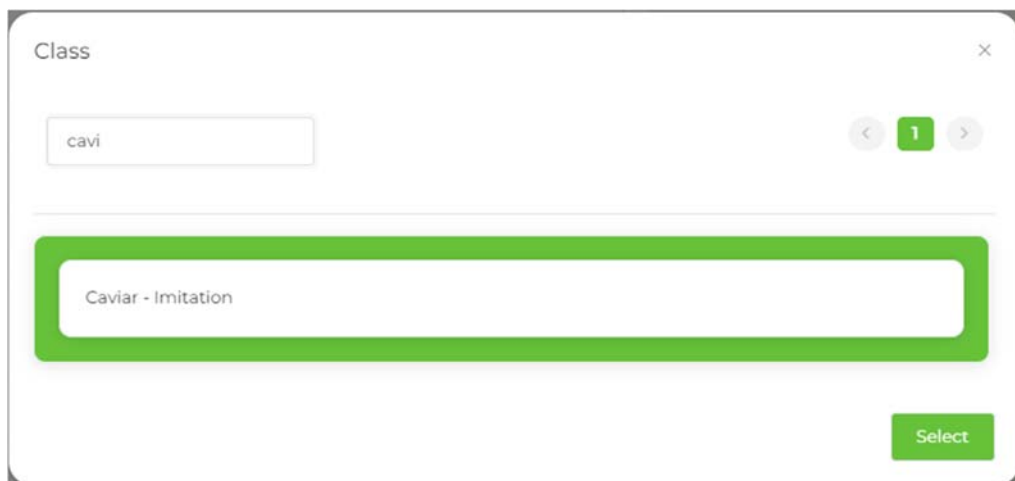
Title (a descriptive name of the Isotopic Profile) (e..g Botargo (Greece - Messologi - PDO)

Family (selection from a list of GPC families based on the selected category).



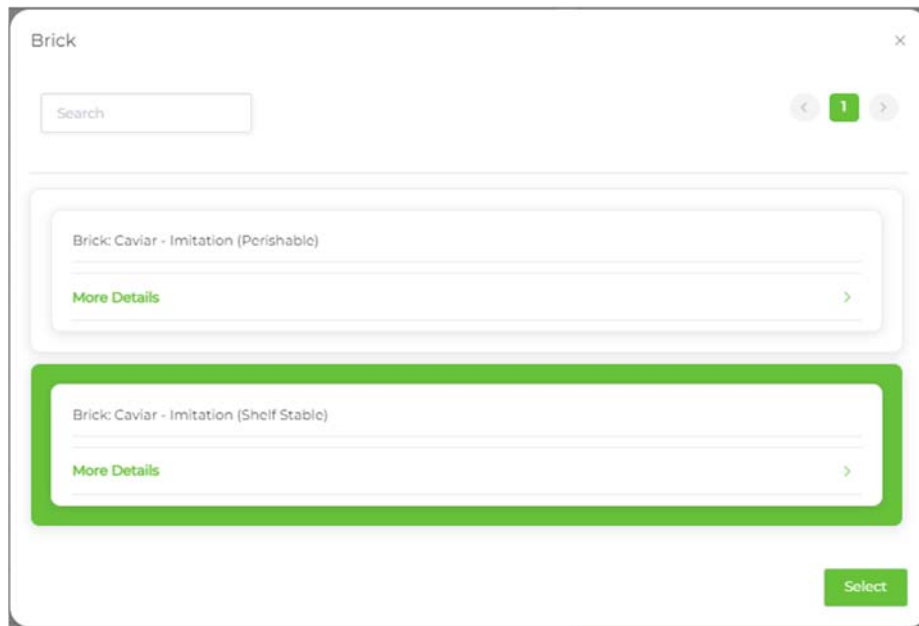
If the user doesn't know which Family to select a search feature is provided where the user may enter a key word related to the Brick that would like to connect.

Class (the next level of GS1 GPC classification based on the selected *Family*)



If the user doesn't know which Class to select a search feature is provided where the user may enter a key word related to the Brick that would like to connect.

Brick (the next and final level of GS1 GPC classification based on the selected *Class*)



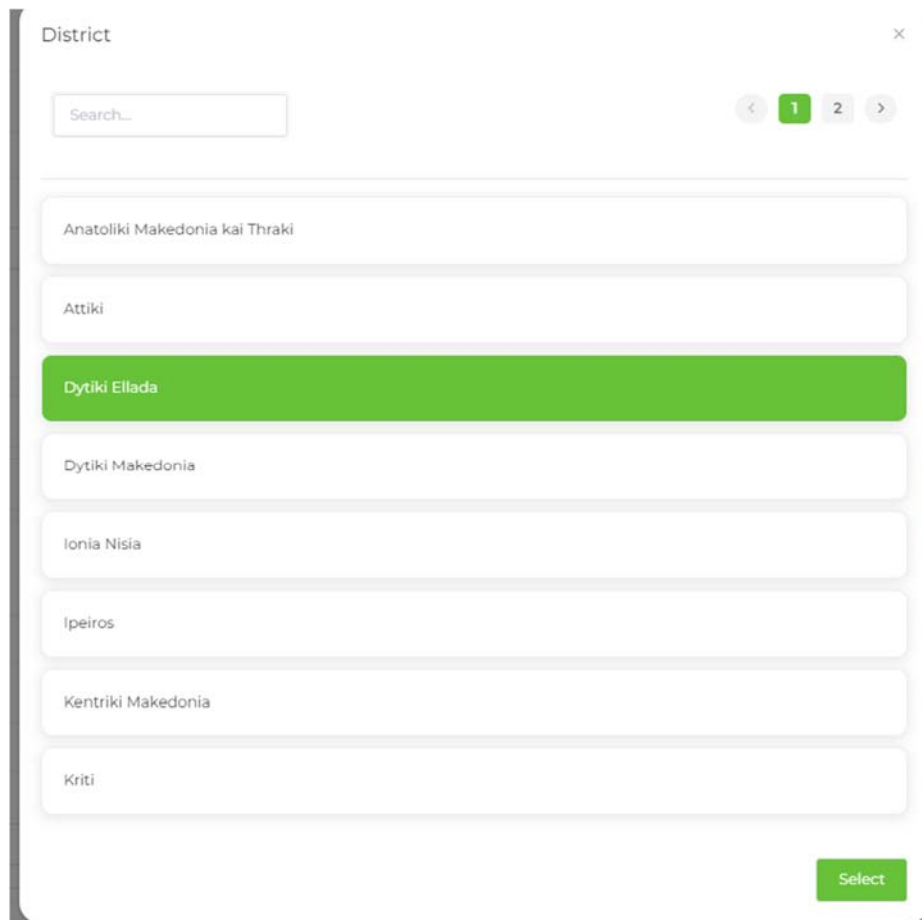
The user enters in the search field the name of the Brick that would like to connect and a filter is applied.

After the selection of a brick the origin (specific place) where this Isotopic Profile is found is selected. The requested information includes the following details:

Country (after selecting the country, the districts of this country are revealed)



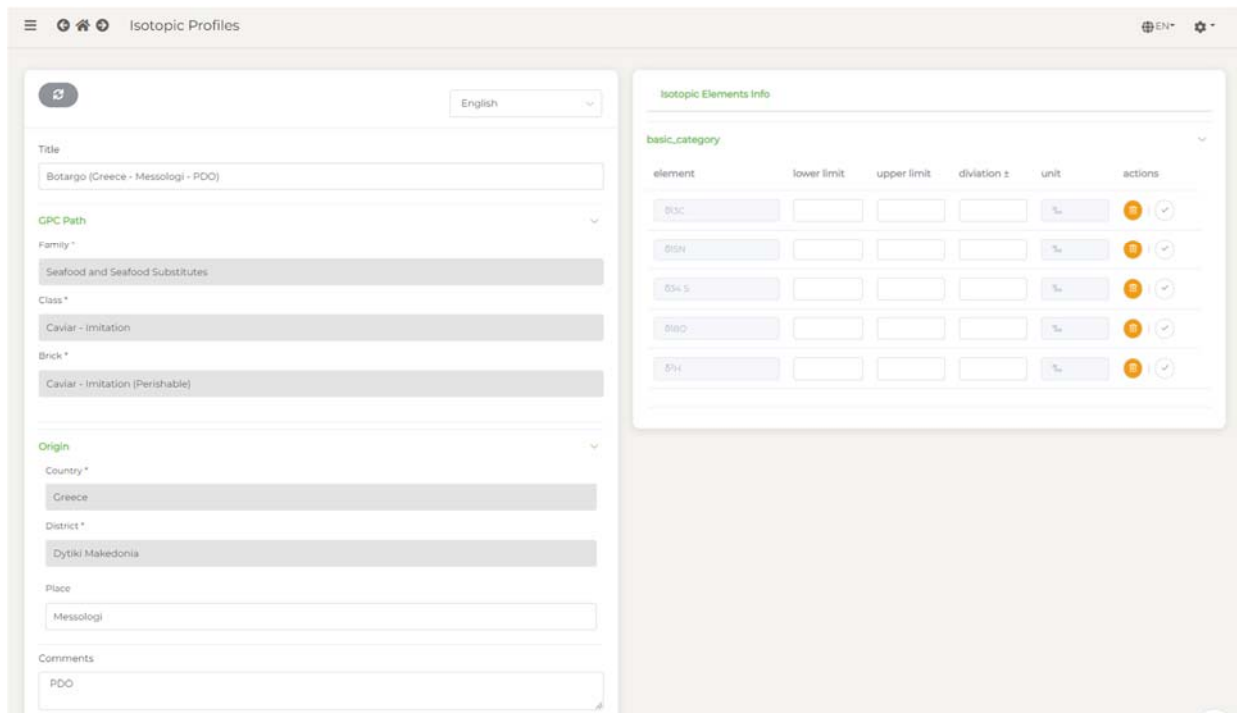
District (filtered by country, using the structure of ISO 3166-2)



Place (the name of a specific place or region) (e.g. Messologi)

Finally, some comments can be added and the Active checkbox shall be checked .

After filling in the proper information the button  is pressed. The information is saved and the list of isotopic elements is shown at the right side of the page.



The upper limit, the lower limit, the deviation for each element is filled in and the values are updated by selecting the button . The information about the isotopic elements that is provided at the following table is used for our example.

	Isotopic Elements	$\delta^{13}\text{C}$			$\delta^{15}\text{N}$			$\delta^{34}\text{S}$			$\delta^{18}\text{O}$			$\delta^2\text{H}$		
	Units	‰			‰			‰			‰			‰		
Product	Geographical origin	Lower Limit	Upper Limit	Deviation	Lower Limit	Upper Limit	Deviation	Lower Limit	Upper Limit	Deviation	Lower Limit	Upper Limit	Deviation	Lower Limit	Upper Limit	Deviation
Botargo	Messologi (PDO)	-14.50	-13.50	± 0.4	5.10	5.65	± 0.5	4.5	5.5	± 0.9	nm	nm	nm	nm	nm	nm

