
Fire Services by Project-alias

User Manual

Demo0.1

PROJECT: fire_services
DRAFT DATE: 2022.01.02

The Project-alias fire system allows managing assets including Equipment and Vehicles available in Fire Services departments by tracking essential characteristics such as titles, activity status, descriptions, serial numbers, assigned drivers etc. Also, it allows efficient preventive maintenance task tracking through creating form templates and ability to fill them up.

The Demo Application contains four modules that will be described in this manual:

1. Equipment.
2. Vehicle.
3. Forms.
4. Users and Personnel.

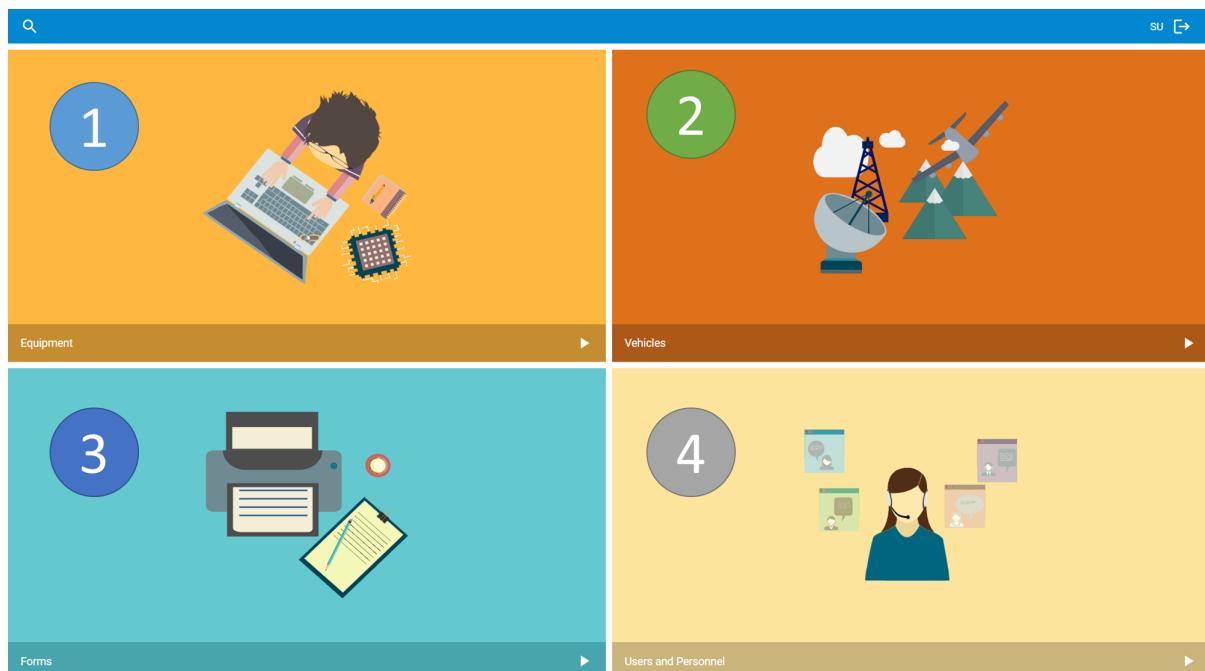


Table of Contents

1	Equipment Module	1
1.1	Equipment Class	1
1.2	Equipment Type	7
1.3	Equipment	11
2	Vehicles Module	16
2.1	Vehicle Type	16
2.2	Vehicle	23
3	Forms Module	24
3.1	Form Item	24
3.2	Form Type Item	25
3.3	Form Type	26
3.4	Form Class	28
4	Users and personnel Module	29
4.1	Status	29
4.2	Person	33
4.3	Role	36
4.4	Person role	39

1 Equipment Module

1.1 Equipment Class

In order to perform classification of equipment correctly, users can create equipment classes. Possible equipment classes are hose pipe, ladder, lamp, etc. When creating a new equipment class, users have to fill in its title without white spaces and activity status, as well as its description, as displayed on Fig. 1.

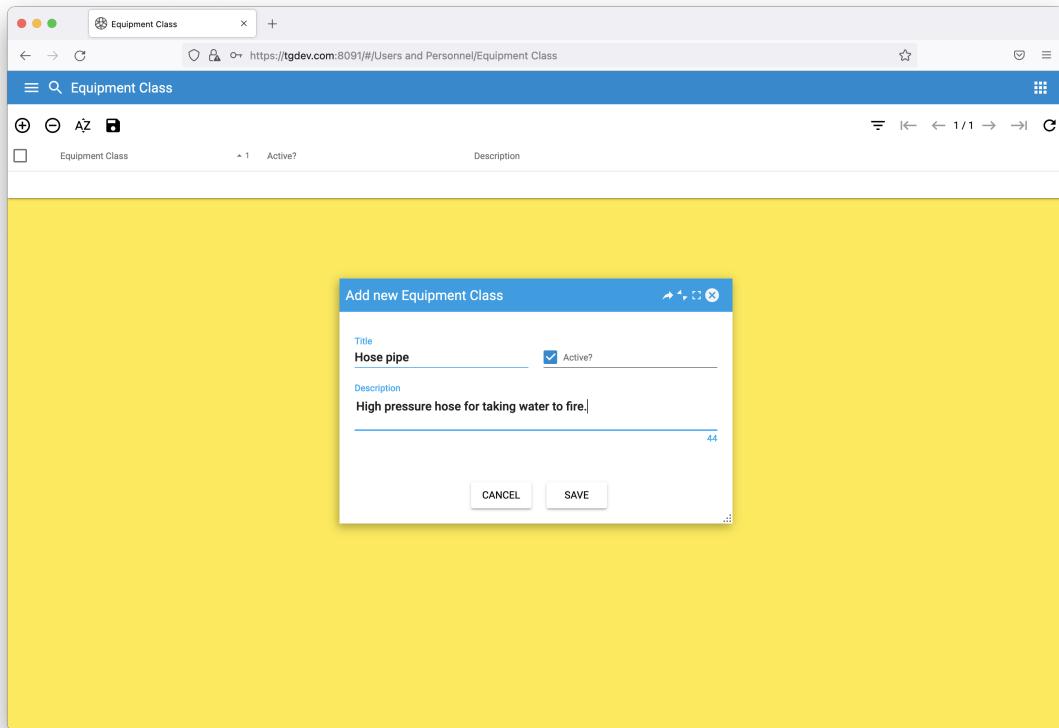


Figure 1: Equipment class creation.

Users can search for existing equipment classes either by specifying title, which is auto-completed, or activity status, or both, as displayed on Fig. 2.

Fire Services TG-based System User Manual

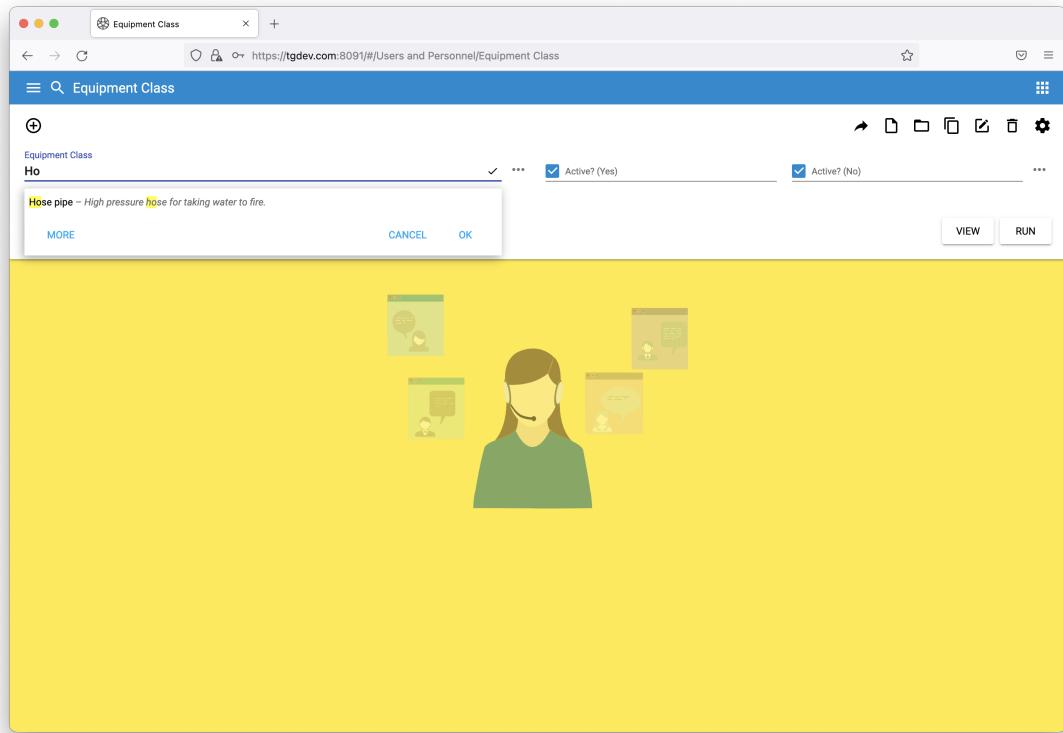


Figure 2: Equipment search query.

Search results are displayed along with title, activity status and description of the relevant equipment classes, as displayed on Fig. 3.

Fire Services TG-based System User Manual

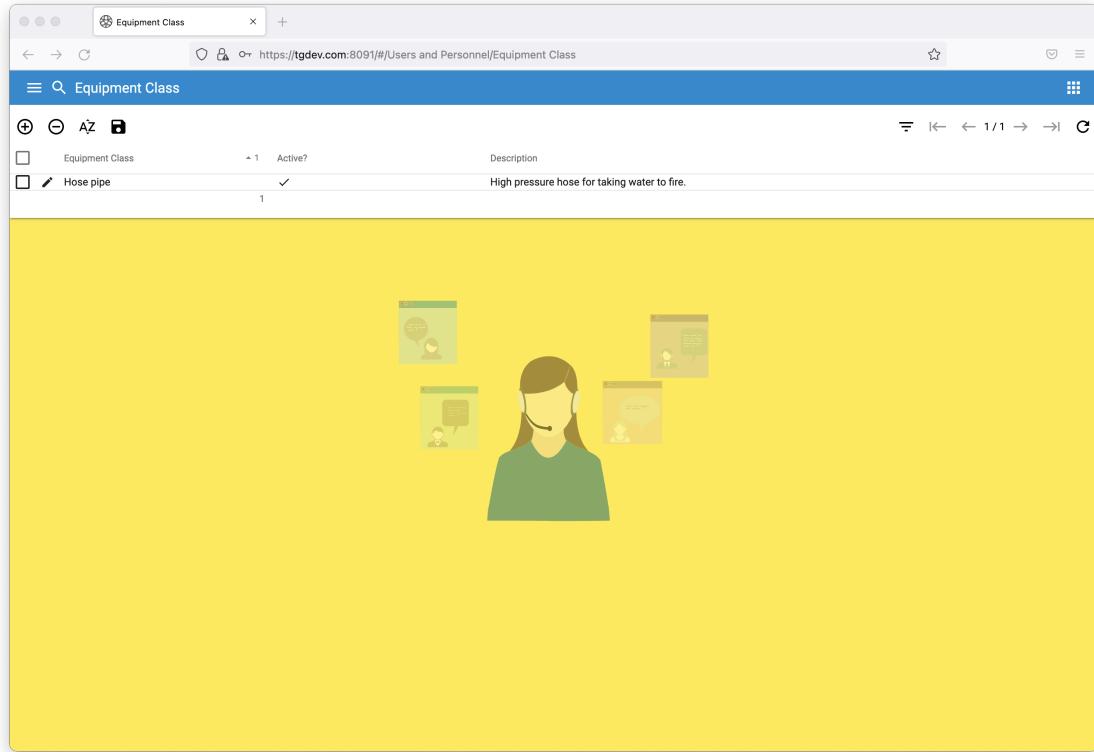


Figure 3: Equipment class search results.

Users can edit existing equipment classes. On the 'Main' tab, displayed on Fig. 4, users can edit title, activity status and description of the specific equipment class.

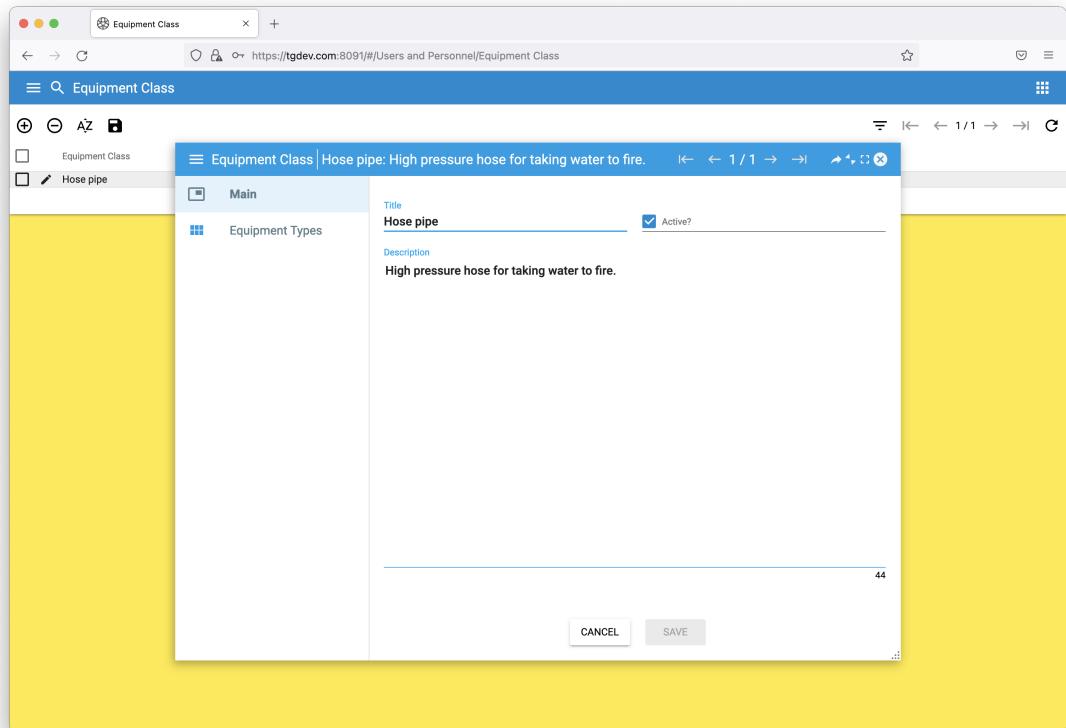


Figure 4: Equipment class editing.

On the ‘Equipment Types’ tab, users can:

- observe all of the equipment types related only to this specific equipment class along with title, activity status and description, as displayed on Fig. 5;

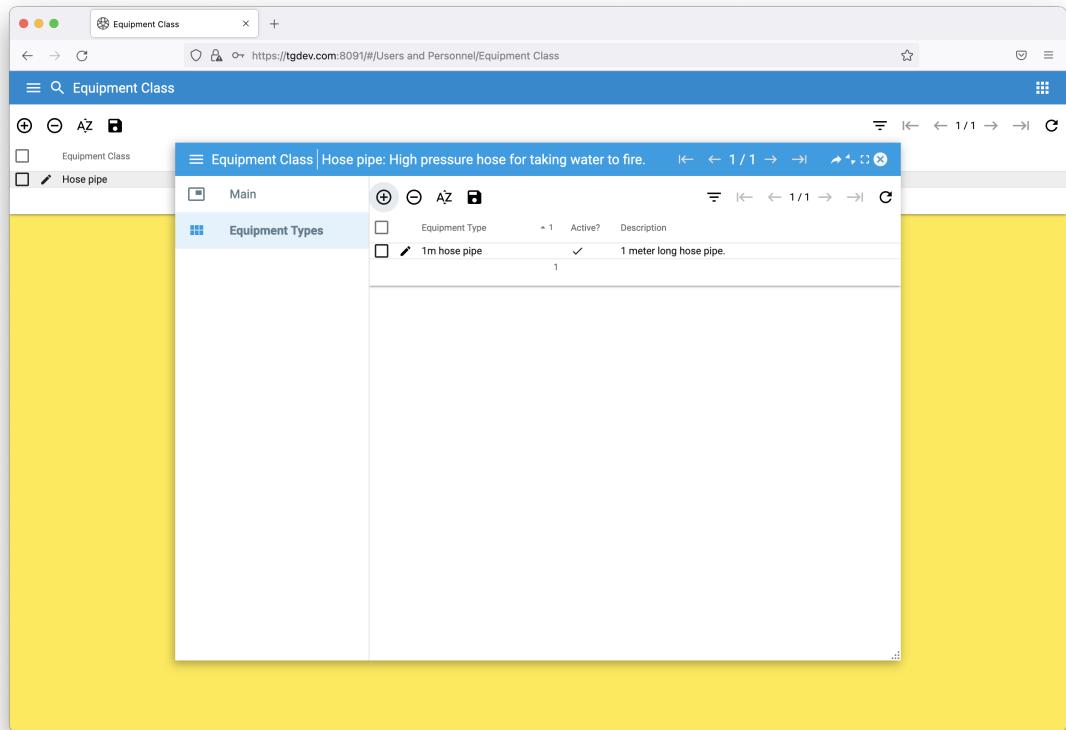


Figure 5: Embedded equipment type search results.

- search for existing equipment types related only to this specific equipment class either by specifying title, which is auto-completed, or activity status, or both, as displayed on Fig. 6;

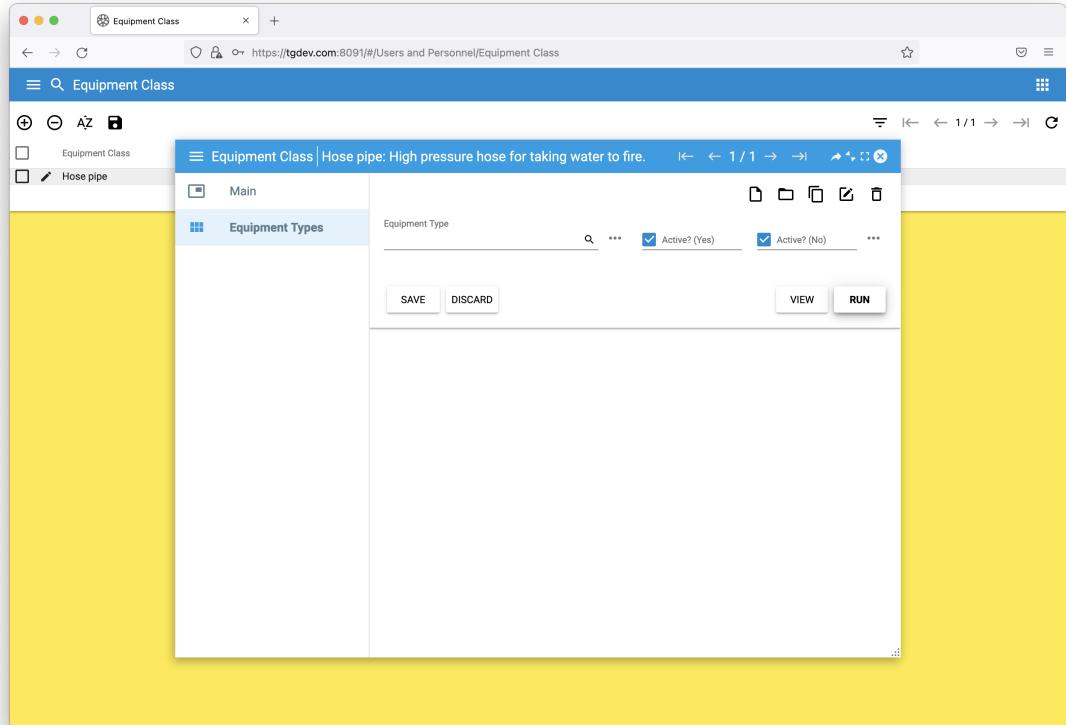


Figure 6: Embedded equipment type search query.

- create equipment type by filling in its title without white spaces and activity status, as well as its description, as displayed on Fig. 7. Equipment class field is automatically auto-completed with this specific equipment class.

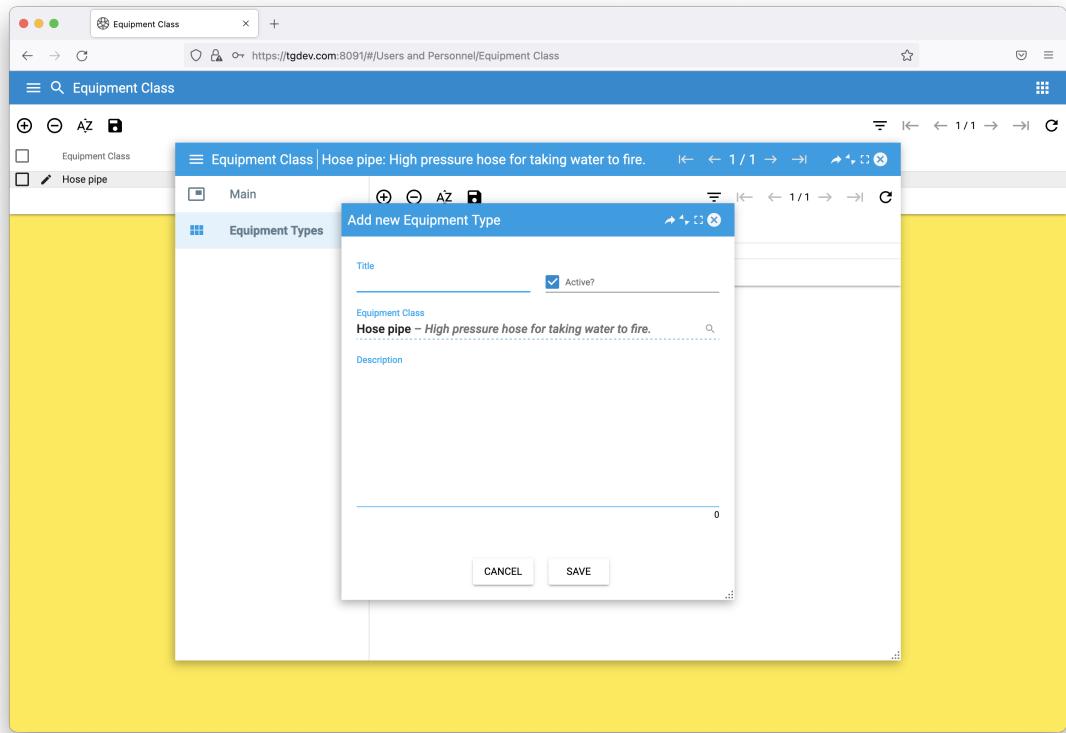


Figure 7: Embedded equipment type creation.

1.2 Equipment Type

In order to perform classification of equipment in more detail correctly, users can create equipment types. Possible equipment types are 1m hose pipe, assault ladder, electric lamp, etc. When creating a new equipment type, users have to fill in its title without white spaces, activity status, equipment class it belongs to, which is auto-completed, as well as its description, as displayed on Fig. 8.

Fire Services TG-based System User Manual

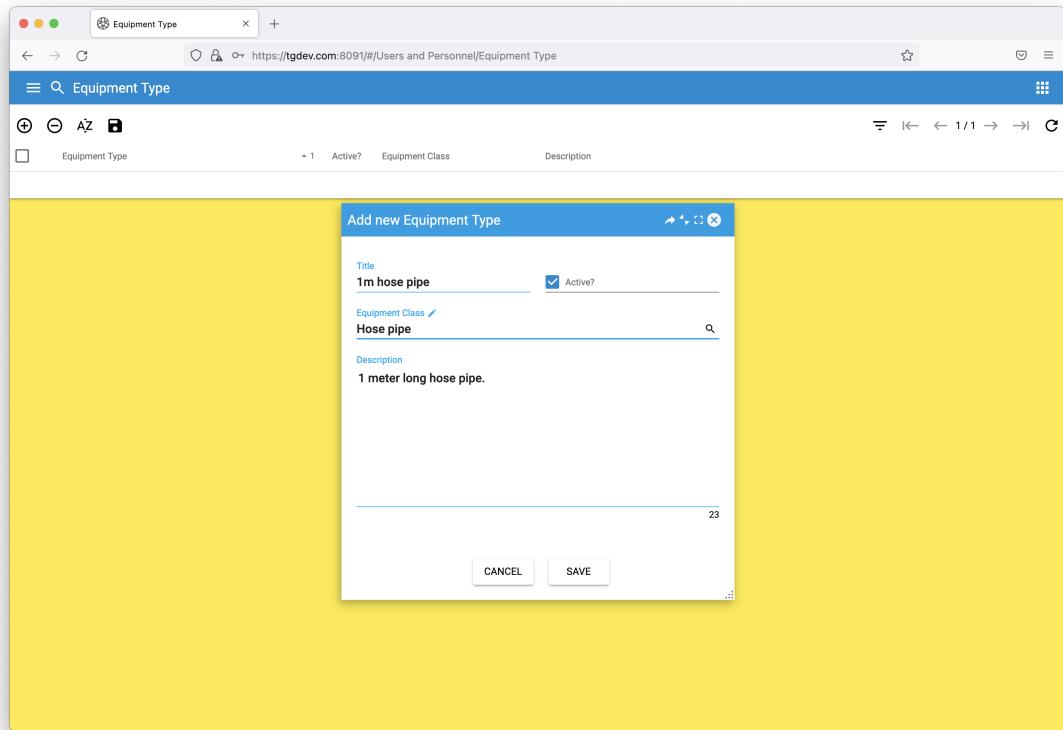


Figure 8: Equipment type creation.

Users can search for existing equipment types either by specifying title, which is auto-completed, activity status, equipment class they belong to, or all, as displayed on Fig. 9.

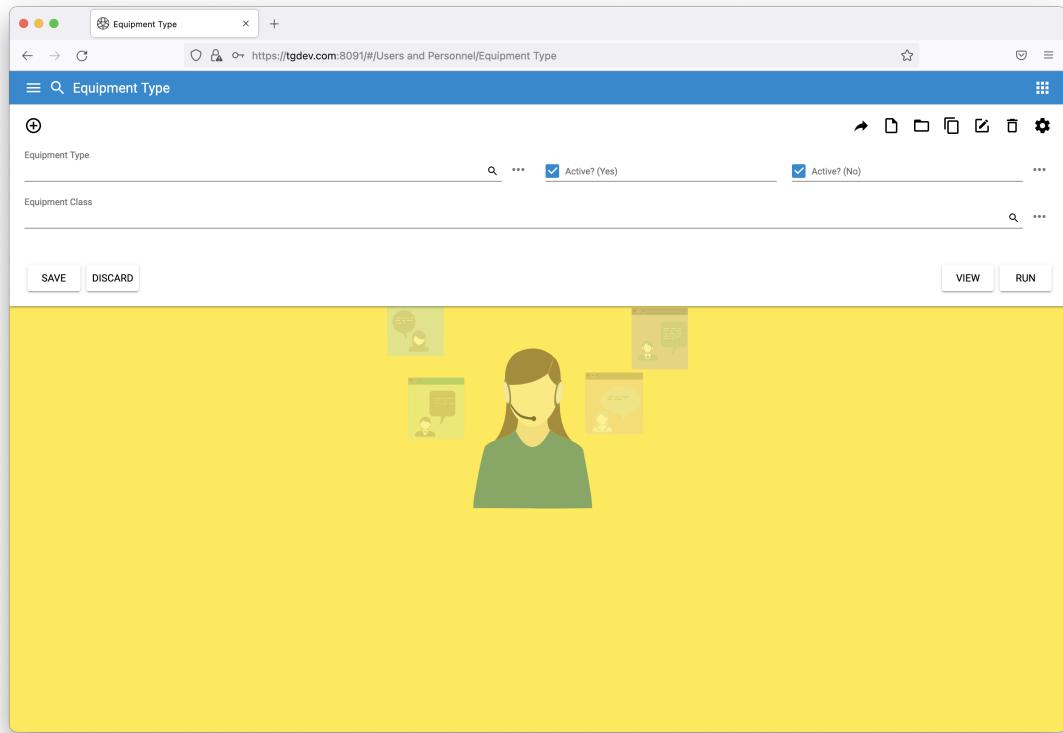


Figure 9: Equipment type search query.

Search results are displayed along with title, activity status, equipment class and description of the equipment type, as displayed on Fig. 10.

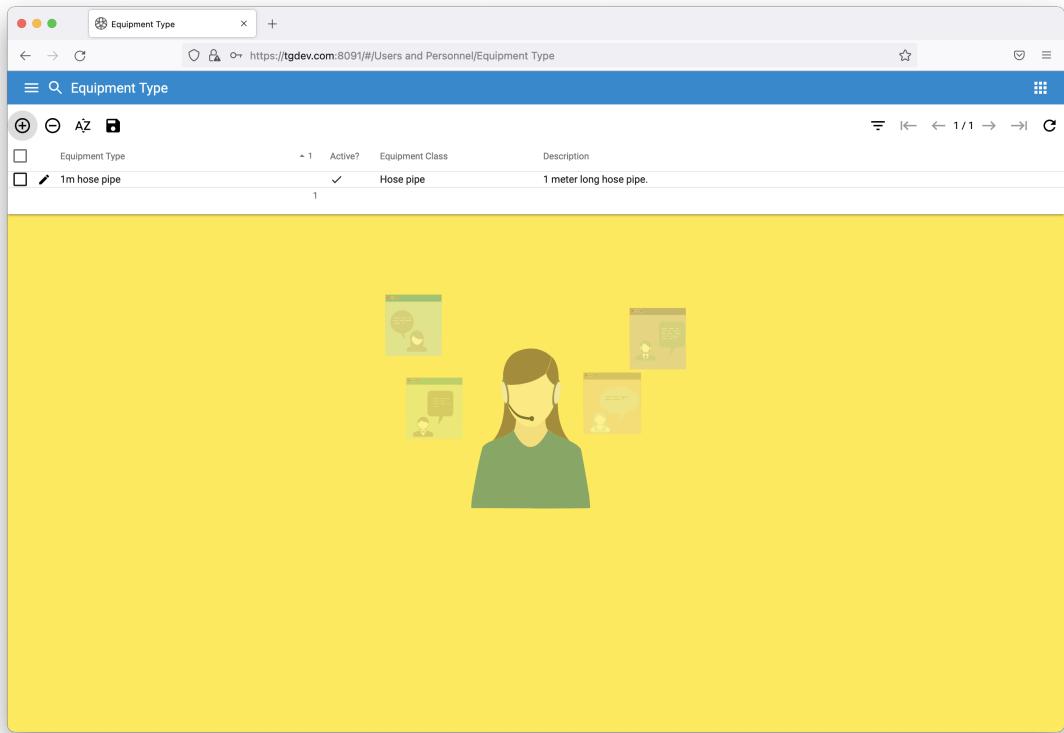


Figure 10: Equipment type search results.

Users can edit existing equipment types. As displayed on Fig. 11, users can edit title, activity status, equipment class and description of the specific equipment type.

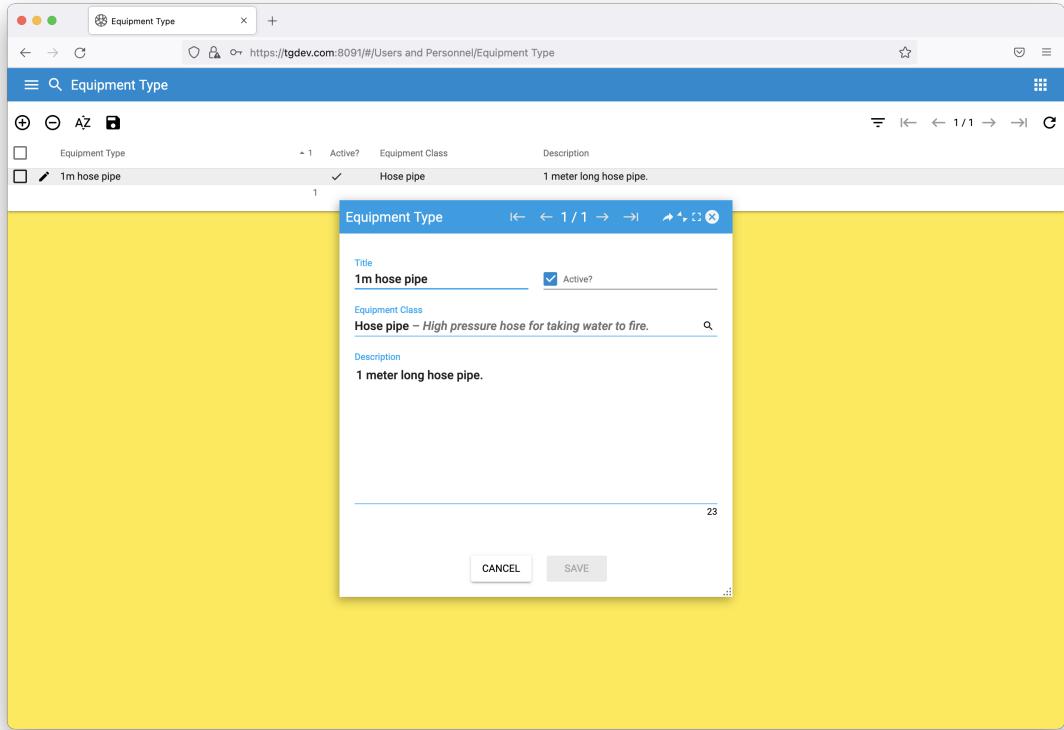


Figure 11: Equipment type editing.

1.3 Equipment

In order to perform registration, classification and tracking of equipment correctly, users can create equipment. Possible equipment are pipe, lightning, etc. When creating a new equipment, users have to fill in its title without white spaces, activity status, equipment type and vehicle it belongs to, which are auto-completed, and its description, as displayed on Fig. 12. The number of equipment is auto-generated in chronological order after it was saved.

Fire Services TG-based System User Manual

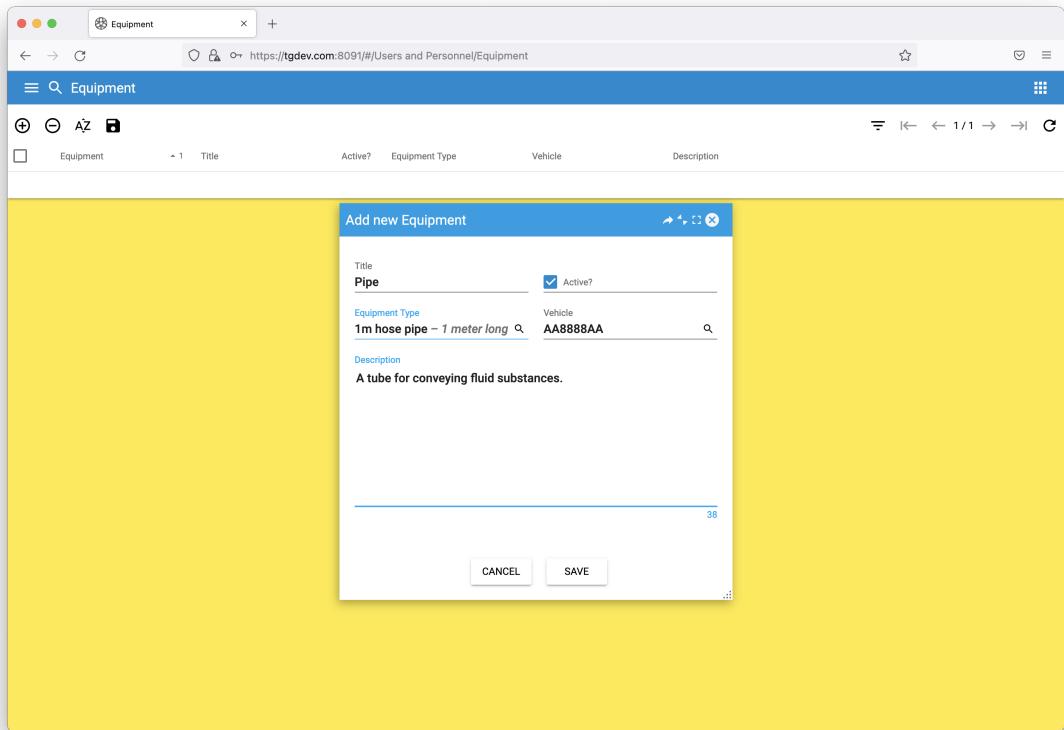


Figure 12: Equipment creation.

Users can search for existing equipment either by specifying number, which is auto-completed, activity status, title, equipment type and vehicle they belong to and which are auto-completed, or all, as displayed on Fig. 13.

Fire Services TG-based System User Manual

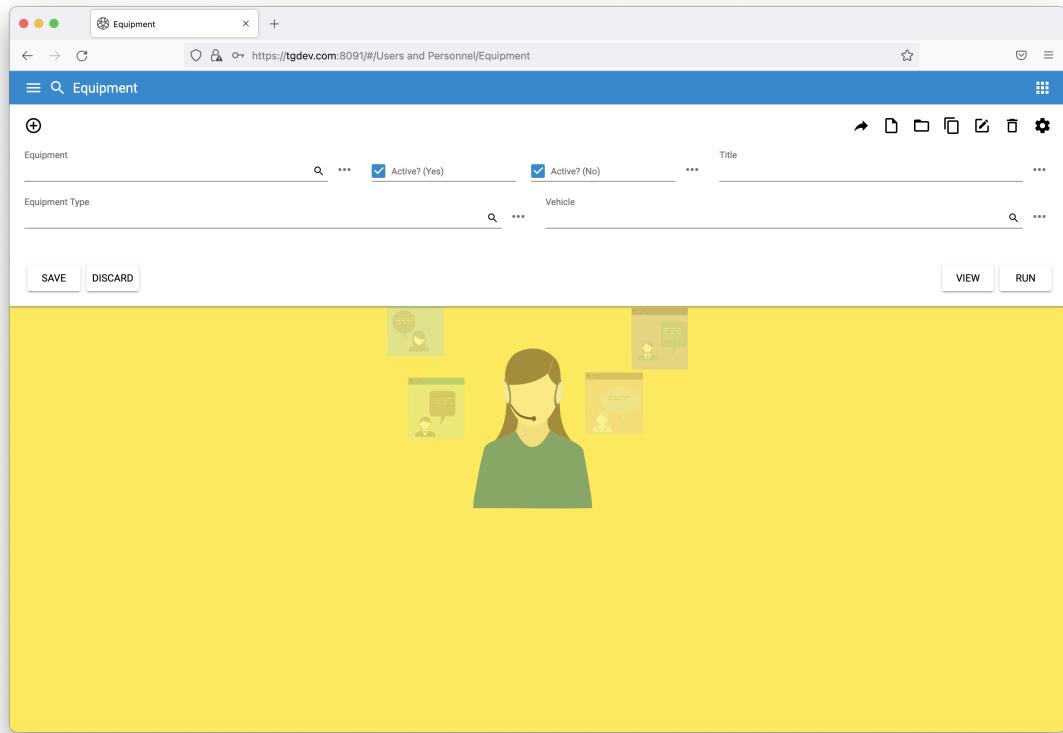


Figure 13: Equipment search query.

Search results are displayed along with number, title, activity status, equipment type, vehicle and description of the relevant equipment, as displayed on Fig. 14.

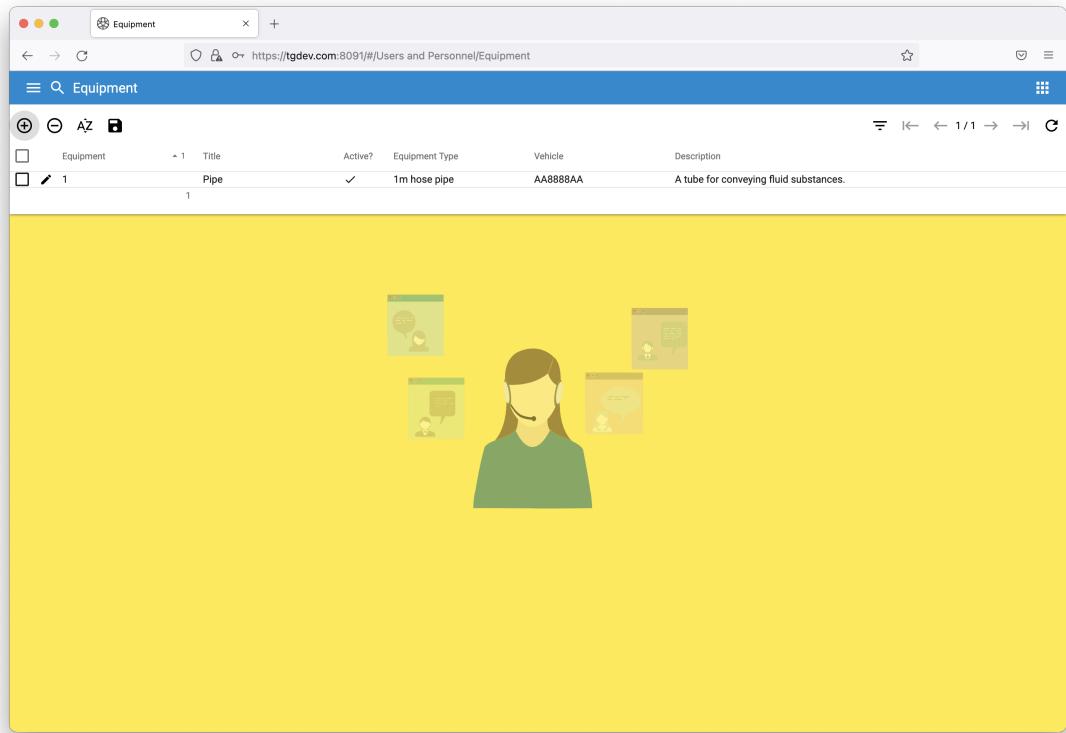


Figure 14: Equipment search results.

Users can edit existing equipment. As displayed on Fig. 15, users can edit title, activity status, equipment type, vehicle and description of the specific equipment.

Fire Services TG-based System User Manual

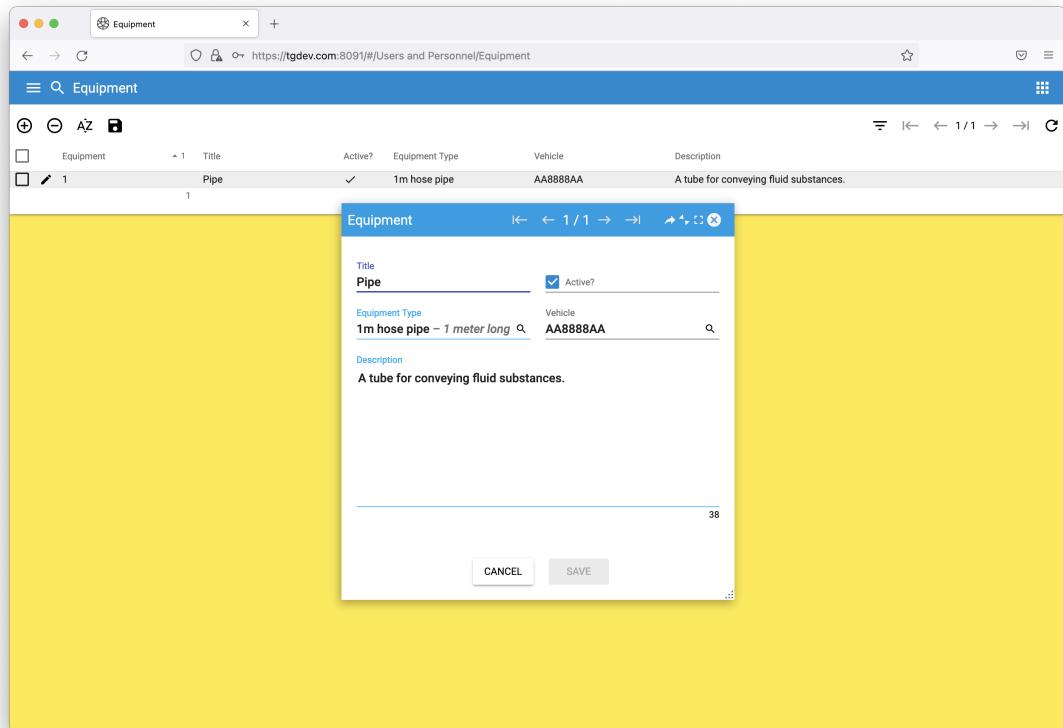


Figure 15: Equipment editing.

2 Vehicles Module

2.1 Vehicle Type

In order to perform classification of vehicles correctly, users can create vehicle types. Possible vehicle types are hose aerial truck, fire truck, heavy rescue truck, water tender, etc. When creating a new vehicle type, users have to fill in its title without white spaces and activity status, as well as its description, as displayed on Fig. 16.

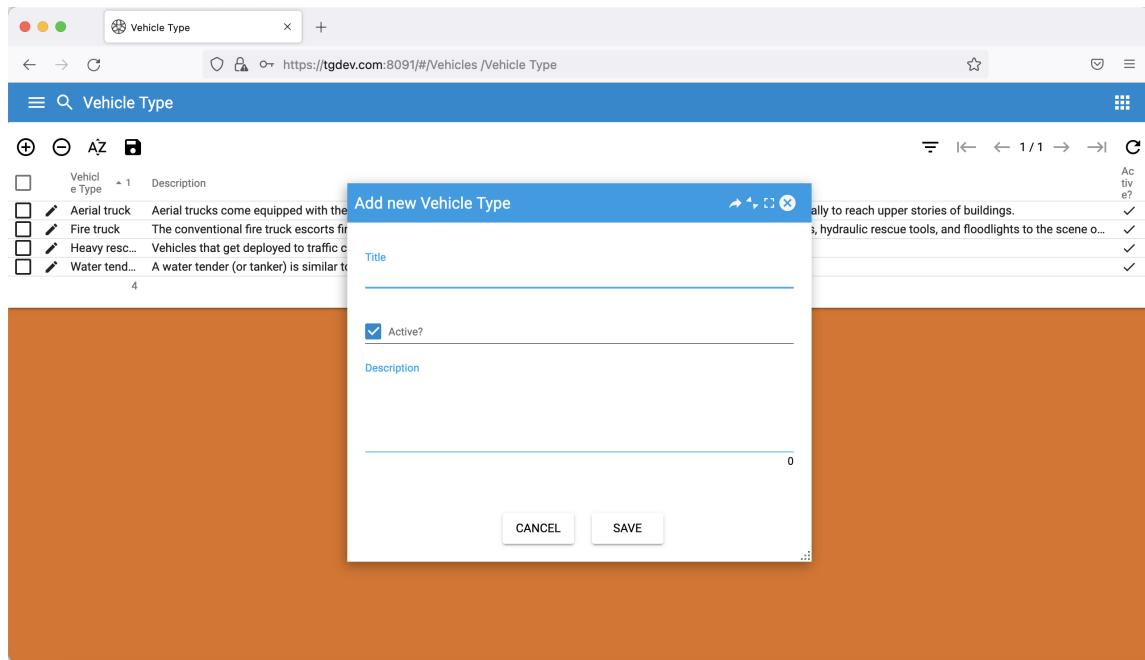


Figure 16: Vehicle type creation.

Users can search for existing vehicle types either by specifying title, which is auto-completed, or activity status, or description or all of them as displayed on Fig. 17.

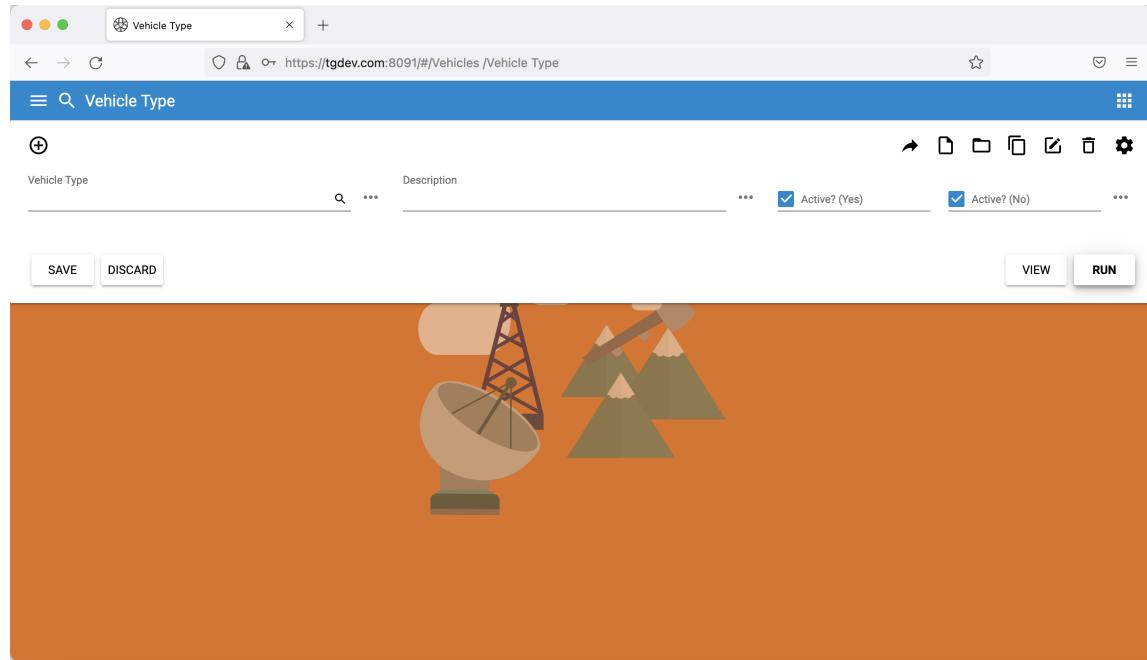
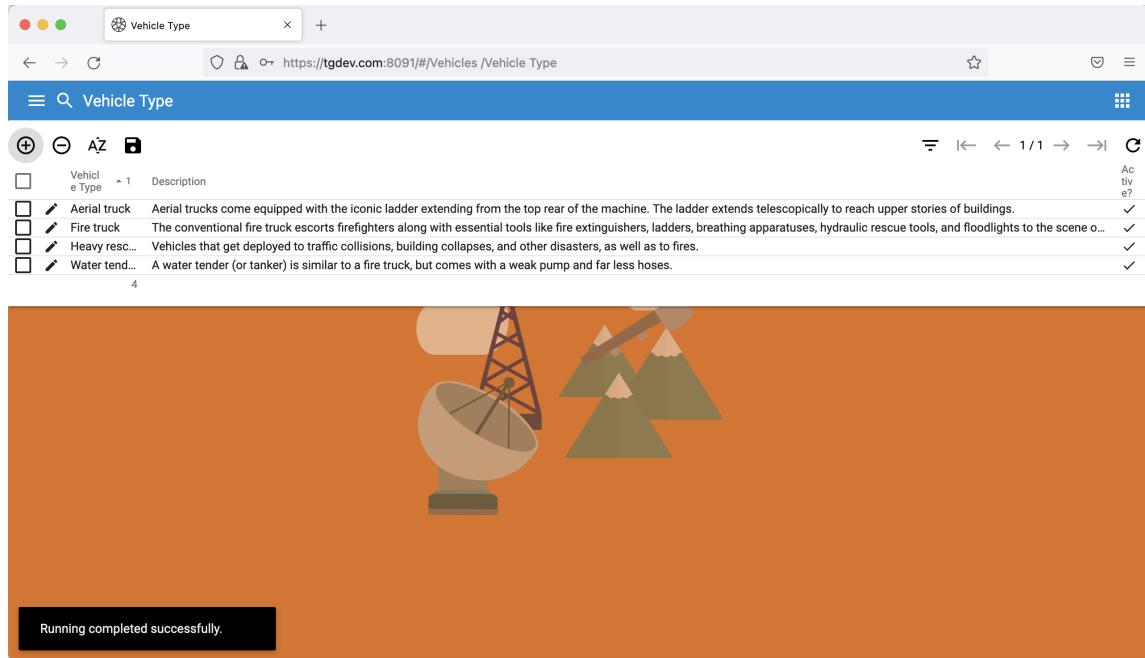


Figure 17: Vehicle type search query.

Search results are displayed along with title, activity status and description of the relevant vehicle types, as displayed on Fig. 18.



The screenshot shows a web browser window titled "Vehicle Type". The URL is https://tgdev.com:8091/#/Vehicles/Vehicle Type. The page has a blue header bar with a search icon and a magnifying glass icon. Below the header is a table with four rows of vehicle types. The first row is expanded to show a detailed description. At the bottom of the table is a small number "4". The background of the main content area is orange, featuring a graphic of a satellite dish and a mountain range. A black banner at the bottom left says "Running completed successfully."

Vehicle Type	Description	Ac tiv e?
Aerial truck	Aerial trucks come equipped with the iconic ladder extending from the top rear of the machine. The ladder extends telescopically to reach upper stories of buildings.	✓
Fire truck	The conventional fire truck escorts firefighters along with essential tools like fire extinguishers, ladders, breathing apparatuses, hydraulic rescue tools, and floodlights to the scene o...	✓
Heavy resc...	Vehicles that get deployed to traffic collisions, building collapses, and other disasters, as well as to fires.	✓
Water tend...	A water tender (or tanker) is similar to a fire truck, but comes with a weak pump and far less hoses.	✓

Figure 18: Vehicle type search results.

Users can edit existing vehicle types. On the main tab, as displayed on Fig. 19, users can edit title, activity status and description of the specific vehicle type.

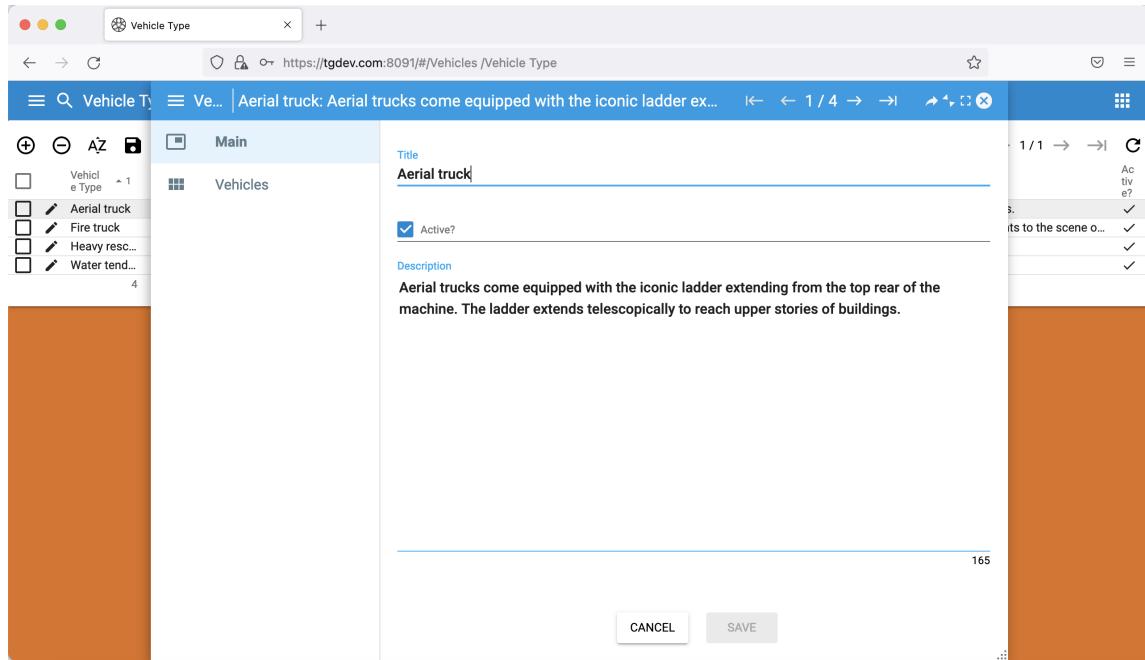
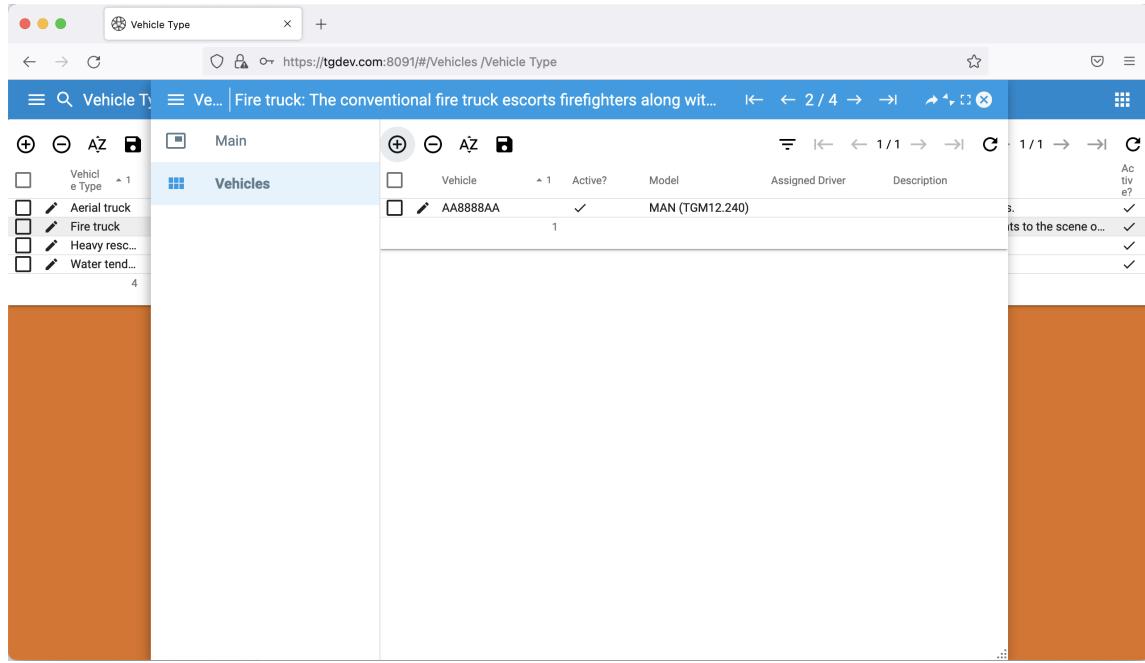


Figure 19: Vehicle type editing.

Fire Services TG-based System User Manual

On the ‘Vehicles’ tab, users can observe all of the vehicles related only to this specific vehicle type along with number, activity status, model, assigned driver, and description, as displayed on Fig. 20.



The screenshot shows a web browser window titled 'Vehicle Type' with the URL <https://tgdev.com:8091/#/Vehicles /Vehicle Type>. The main content area displays a table titled 'Vehicles' with one row of data. The table columns are: Vehicle, Active?, Model, Assigned Driver, and Description. The single visible row shows a vehicle with the license plate 'AA8888AA', is marked as active, has the model 'MAN (TGM12.240)', and is assigned to a driver. The description field contains the text 'Fire truck: The conventional fire truck escorts firefighters along with...'. On the left side of the main content area, there is a sidebar with a tree view under 'Vehicle Type' and a list of vehicle types: Aerial truck, Fire truck, Heavy resc..., and Water tend... (with a total count of 4). The entire screenshot is framed by a thick orange border.

Figure 20: Embedded vehicle search results.

Users can also search for existing vehicles related only to this specific vehicle type either by specifying number, which is auto-completed, or activity status, or model, or assigned driver, or description, as displayed on Fig. 21.

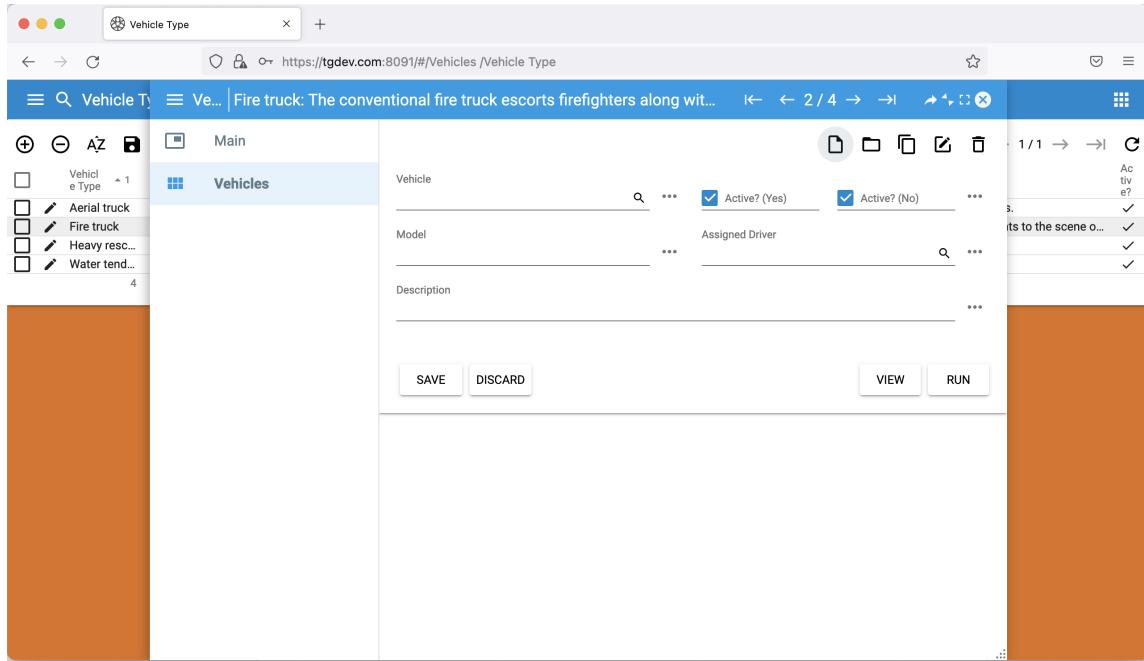


Figure 21: Embedded vehicle search query.

Users can also create a new vehicle by filling in its number in format AA9999AA and activity status, as well as its model, assigned driver (optional), and description (optional) as displayed on Fig. 22. Vehicle Type field is automatically auto-completed with this specific vehicle type.

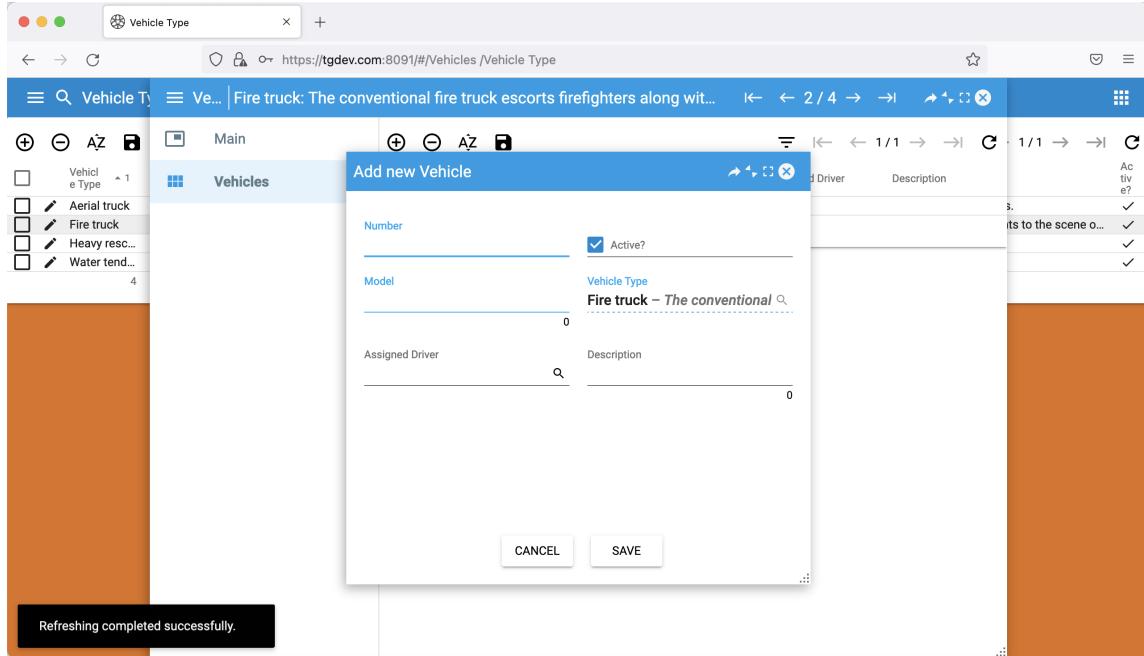


Figure 22: Embedded vehicle creation.

2.2 Vehicle

In order to perform registration, classification and tracking of vehicles correctly, users can create vehicles. When creating a new vehicle, users have to fill in its number in format AA9999AA, activity status, corresponding vehicle type which is auto-completed, model, assigned driver (optional), and its description optional, as displayed on Fig. 23.

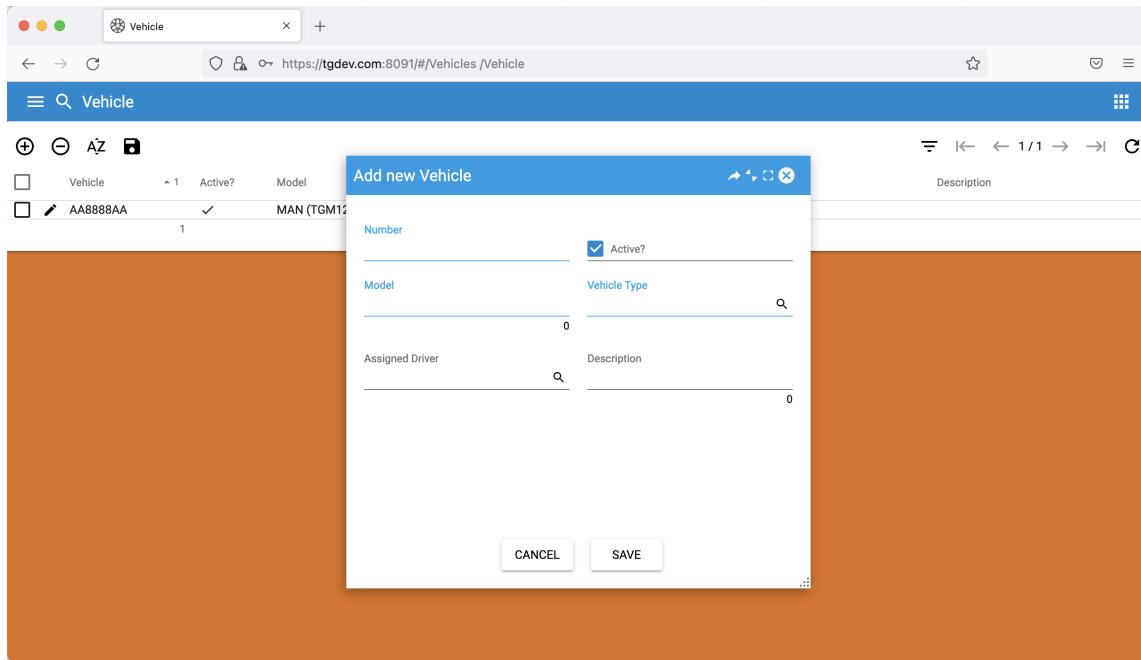


Figure 23: Vehicle creation.

Users can also search for specific vehicles and edit them as described in the vehicle type embedded master section.

3 Forms Module

Forms allow users to perform a daily checkup of the equipment, assigned to them. A new Form items can be added in the "Form Item" folder. Forms functionality is currently under development, but it will contain a Collection of the "Form Items". A User can change the status (Accepted or not) of the Form Item on the Form Class web page. Every Form has the Status property, that can be created and modified in the "Users and Personnel" module.

3.1 Form Item

In order for the Item to be shown in he form, it must be created on the Form Item page with the following properties: **Accepted** and **Form Type Item**.

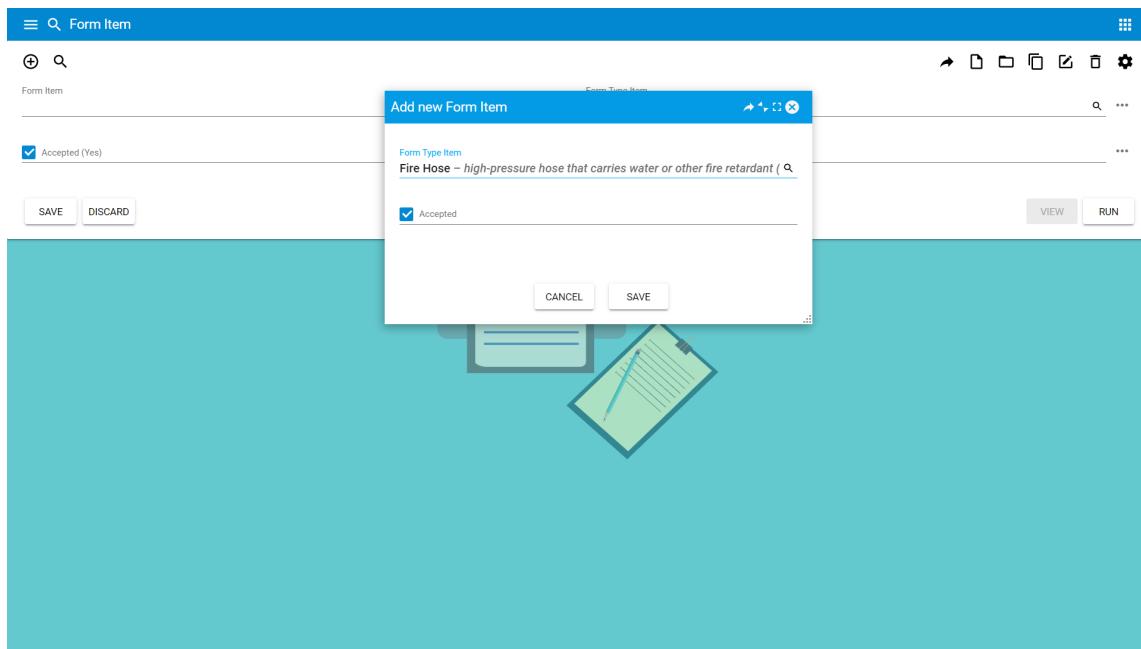


Figure 24: Form Item creation.

Users can perform search operation for the form items based on their **Accepted** status or **Form Type Item** field.

3.2 Form Type Item

Form Type Item is a base class for the **Form Item** creation. Many Form Items can be created from one Form Type Item.

Form Type Item has the unique Title (without white spaces) and Description fields. For example, a new Form Type Item can be: "**Title:** Fire Gloves; **Description:** Important part of the personal protection equipment."

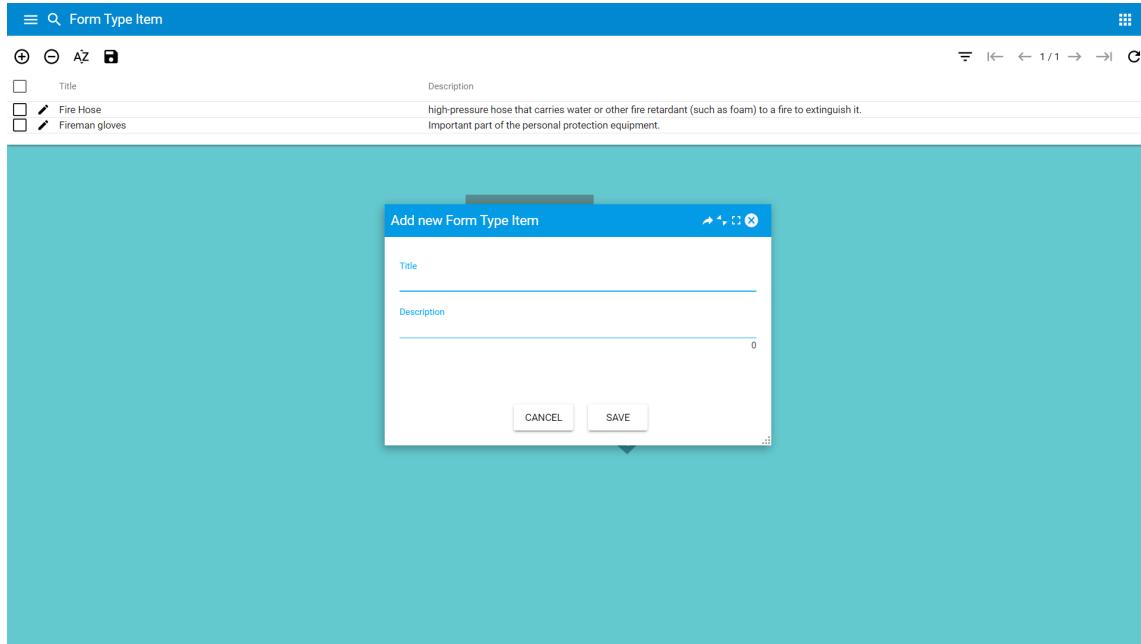


Figure 25: Form Type Item creation.

Users can perform search operation for the form type items based on their **Title** or **Description** values.

3.3 Form Type

The **Form Type** is currently under development.

Form Type is a tool to use the Forms and update the Form Items' statuses. For example, manager Andriy created the Form Type that can be assigned to employee with a specific role, for example Vehicle Driver. Then all the employee with Vehicle Driver role will have the permission to update current form in order to track the status of the equipment during the daily checkup.

For now, the Form has the unique **Title** name, **Assigned Role**, **Form Class** and **Description** fields. It is expected that on the next release there will be N additional fields representing status of the Form Items, that can be updated by workers with the specified role.

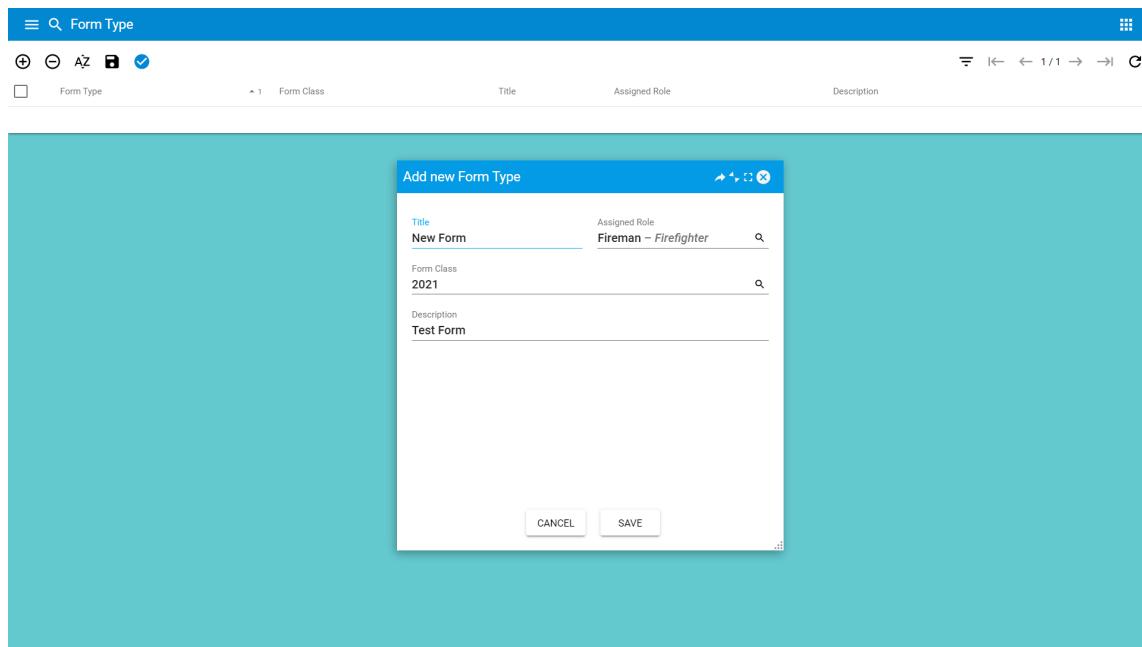


Figure 26: Form Type creation.

Form Type search query can be used to filter the existing form types, and then to delete or update them.

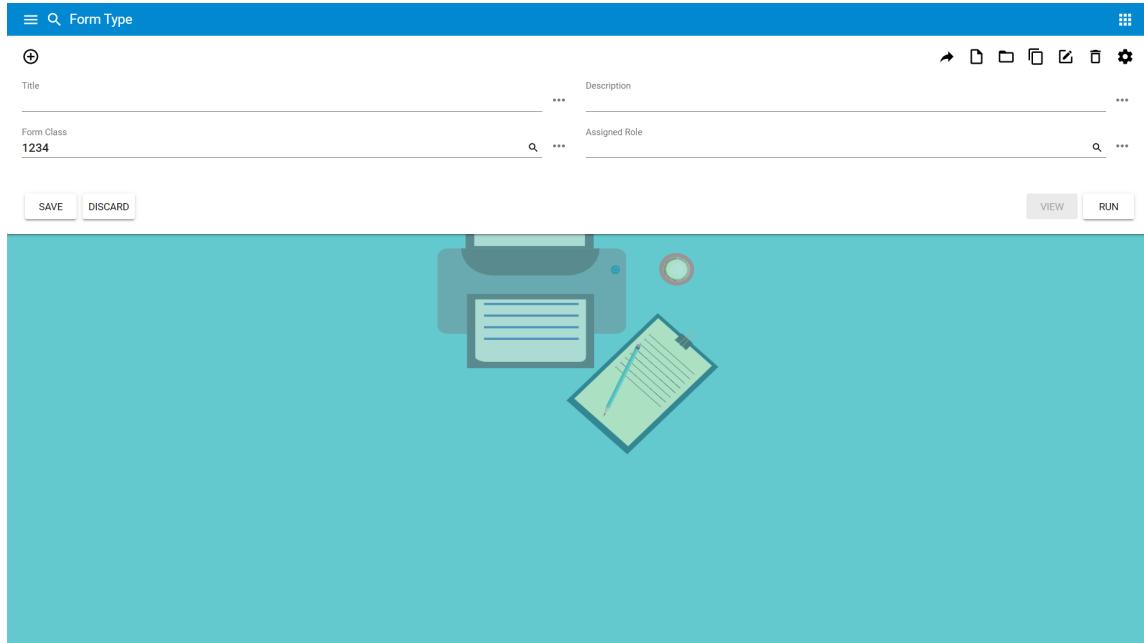


Figure 27: Form Type search query.

For the next release, it is also planned to correctly fine-tune the BatchUpdate action on the Form Type page. After running the Search query, you can see the checkbox circle on the top of the Form Type page. This is the BatchUpdate action. It updates the status of multiple Form Type entities at once. *You need to select at least one row to perform this action.*

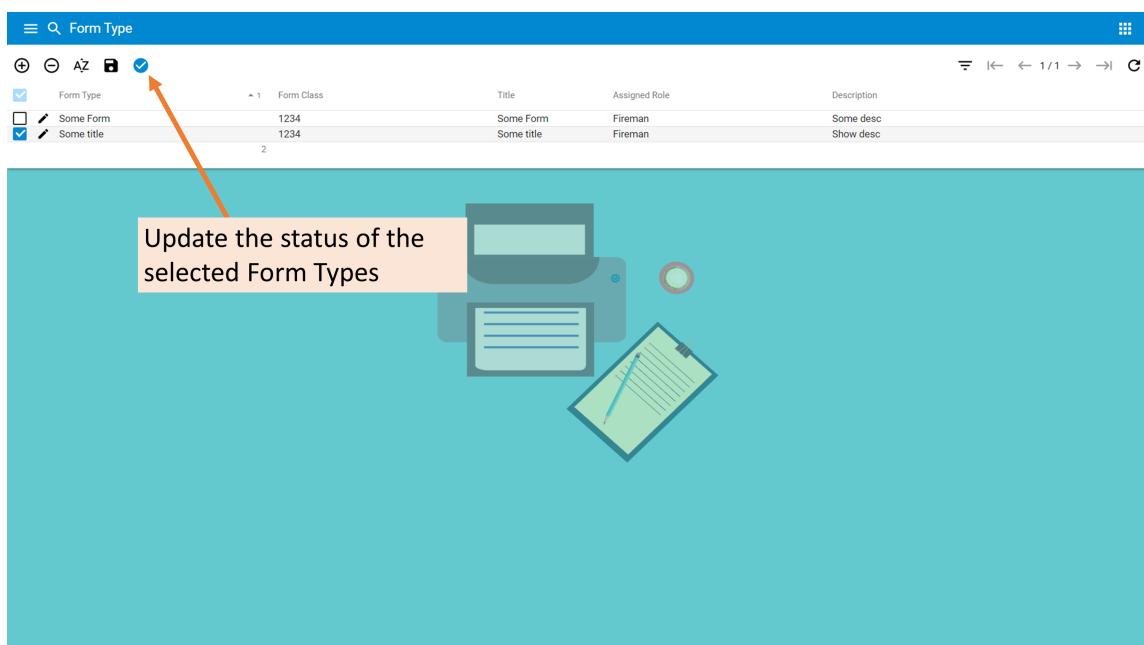


Figure 28: Form Type Batch Update.

3.4 Form Class

Form Class is a tool to create the Forms that will be deployed for everyday use. For example, a worker Andriy created the Form that can be approved by other employees. The Form has the autogenerated name, Status, Date created and Person that is responsible for this form.

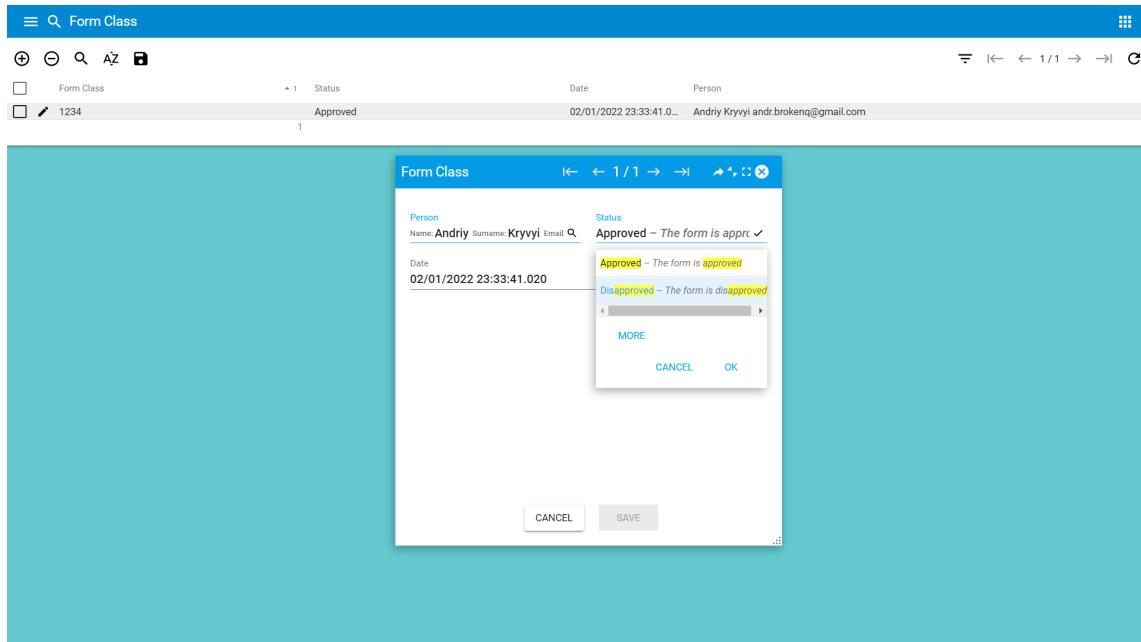


Figure 29: Form creation.

Form search query can be used to filter the existing forms, and then delete or update them.

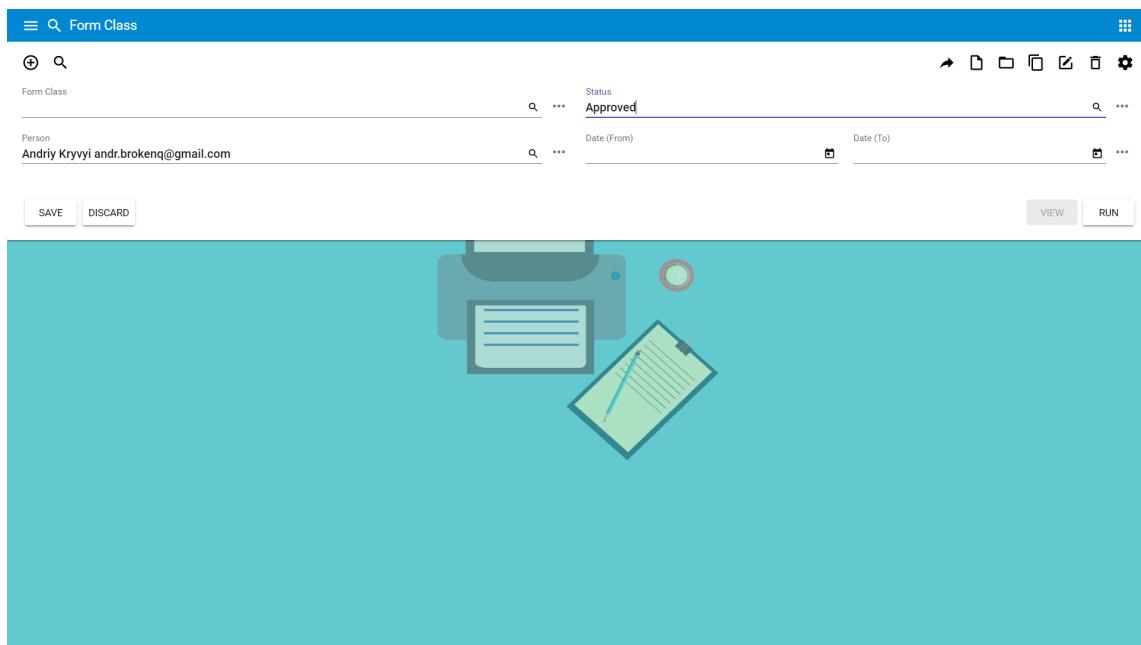


Figure 30: Form search query.

4 Users and personnel Module

4.1 Status

In order for the fire department captain to review filled forms, he can create different statuses and assign them to these forms. Possible statuses are approved, disapproved, sent for review, etc. When creating a new status, the fire department captain has to fill in the name of the status with no whitespaces and description, as displayed on Fig. 31.

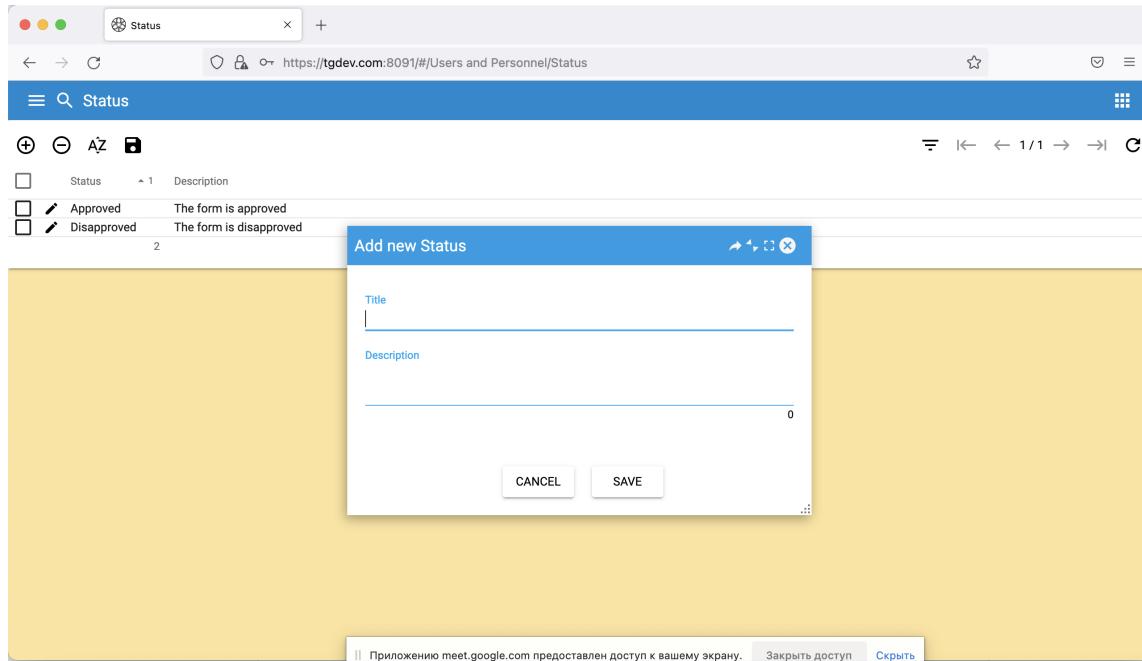


Figure 31: Status creation.

Fire Services TG-based System User Manual

Users can also search for existing statuses either by specifying title, which is auto-completed, or description, or both, as displayed on Fig. 32.

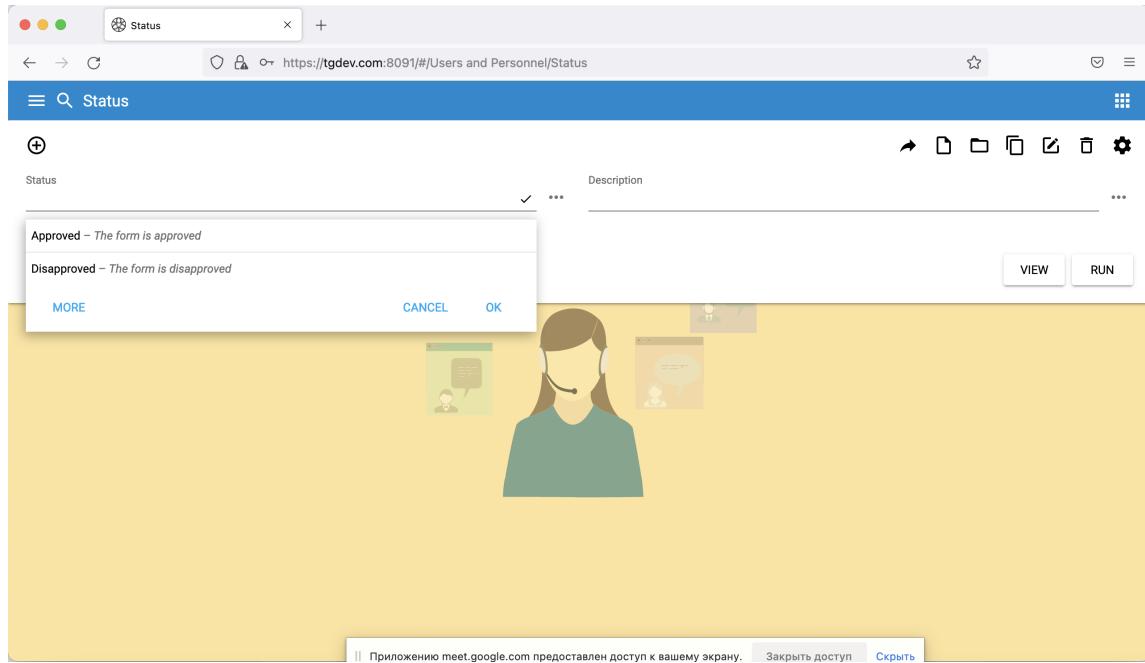


Figure 32: Status search query.

Search results are displayed along with title and description of the relevant statuses, as displayed on Fig. 33.

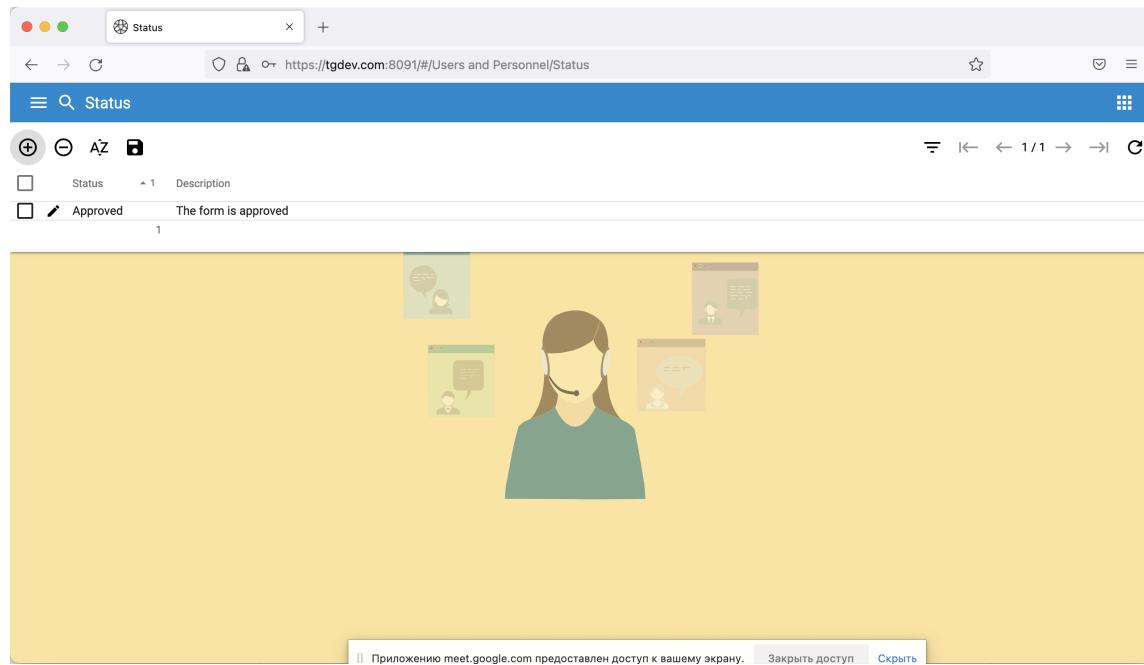


Figure 33: Status search results.

Users can edit existing statuses. As displayed on Fig. 34, users can edit title, and description of the specific status.

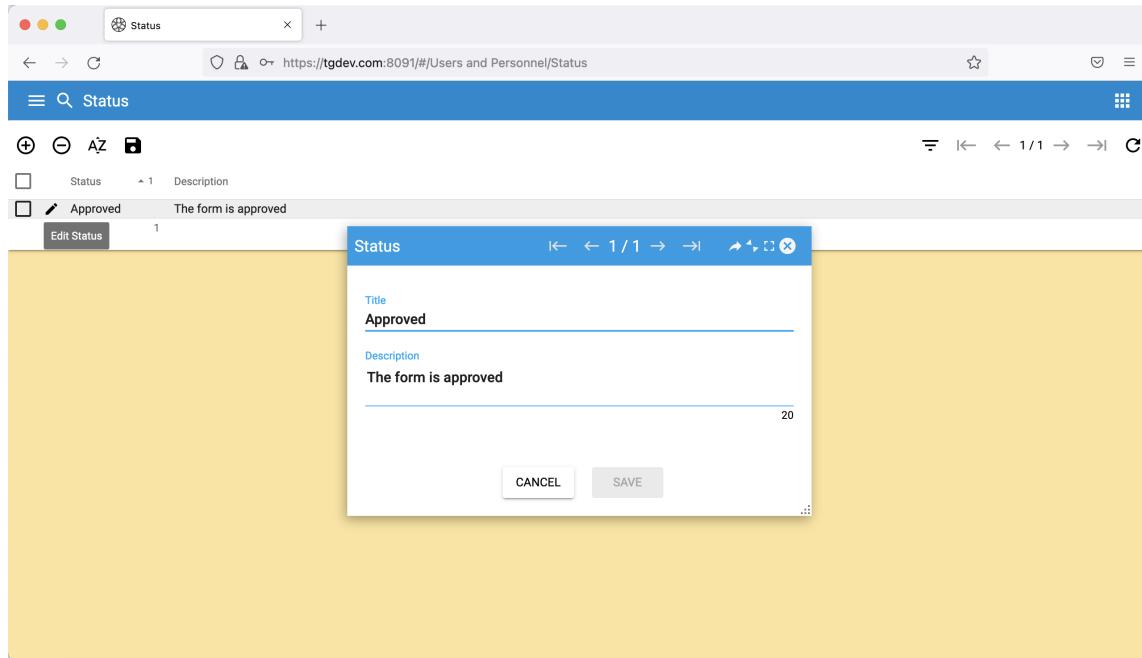


Figure 34: Status editing.

4.2 Person

In order to perform registration and save information about workers, users can create persons. When creating a new person, users have to fill in his/her name and surname, email, phone number in format +38 (098) 765 4321 (optional) and activity status, as displayed on Fig. 35.

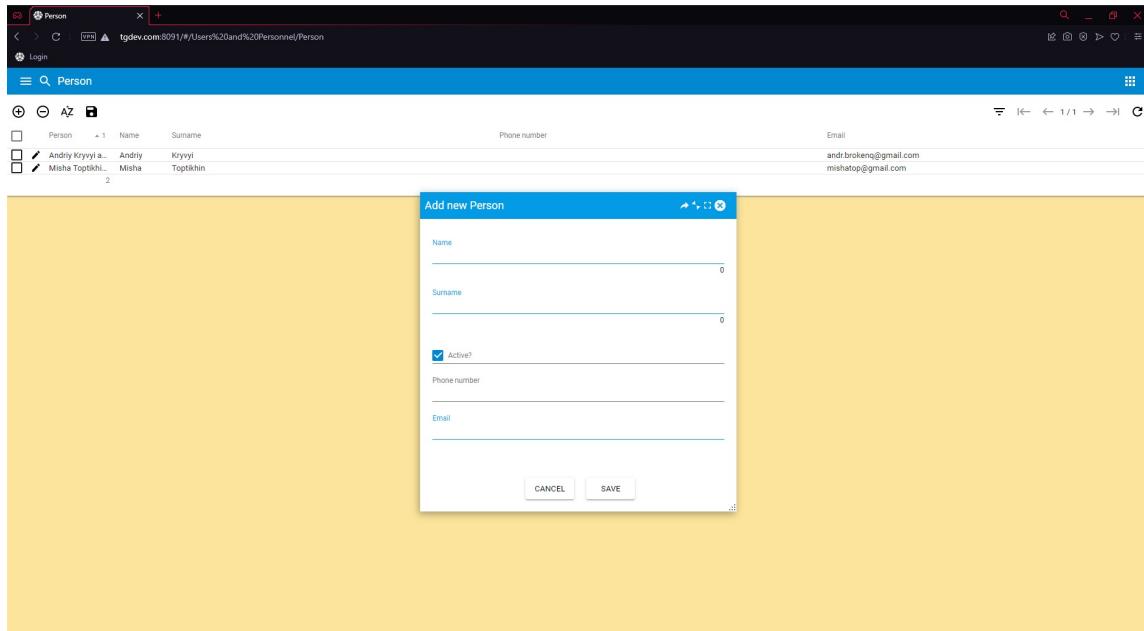


Figure 35: Person creation.

Fire Services TG-based System User Manual

Users can search for existing persons either by specifying name, surname, or email, or phone number or activity status, or all of them as displayed on Fig. 36.

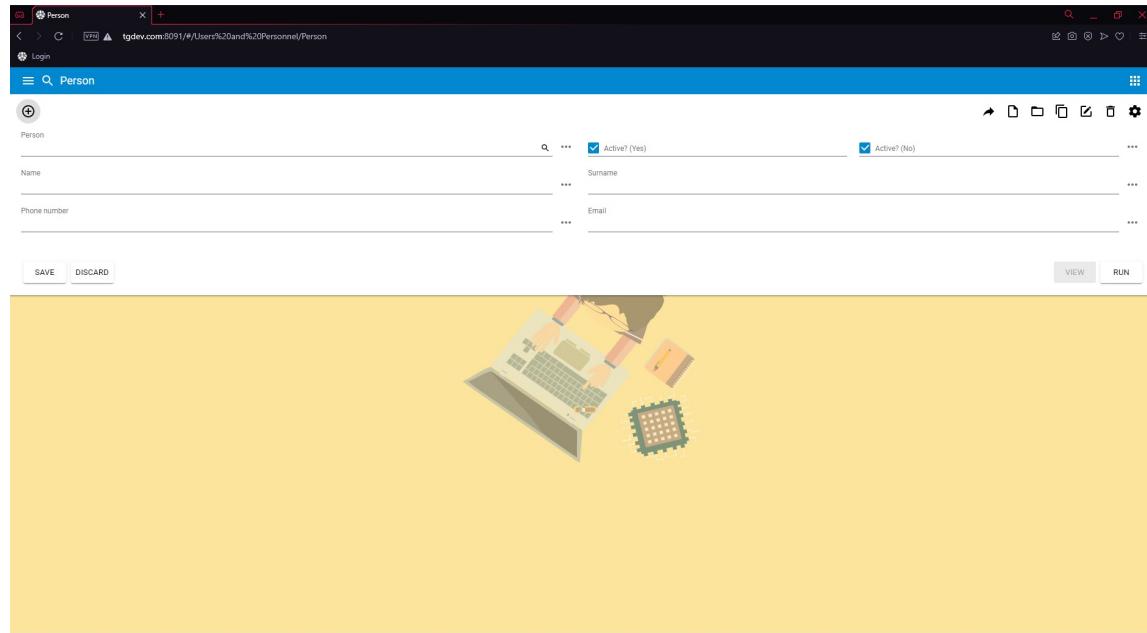


Figure 36: Person search.

Fire Services TG-based System User Manual

Users can edit existing persons. On the ‘Main’ tab, displayed on Fig. 37, users can edit the name, surname, phone number, email and activity status of the specific person.

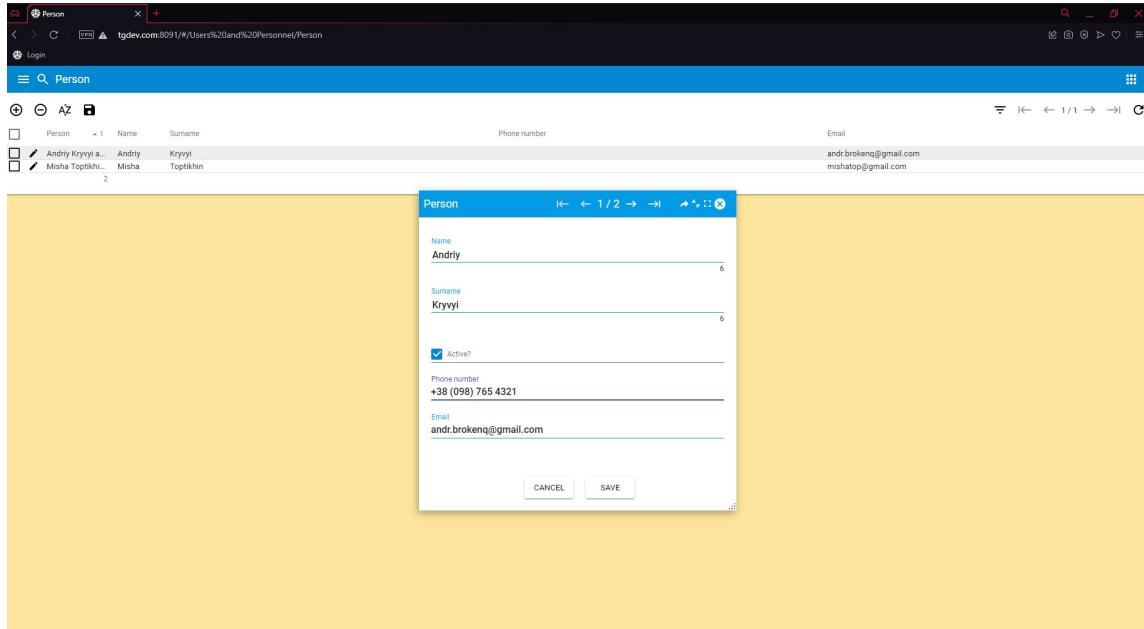


Figure 37: Person editing.

4.3 Role

In order to create and save roles, which will help to record the responsibility of workers, users can create roles. When creating a new role, users have to fill in its title and description as displayed on Fig. 38.

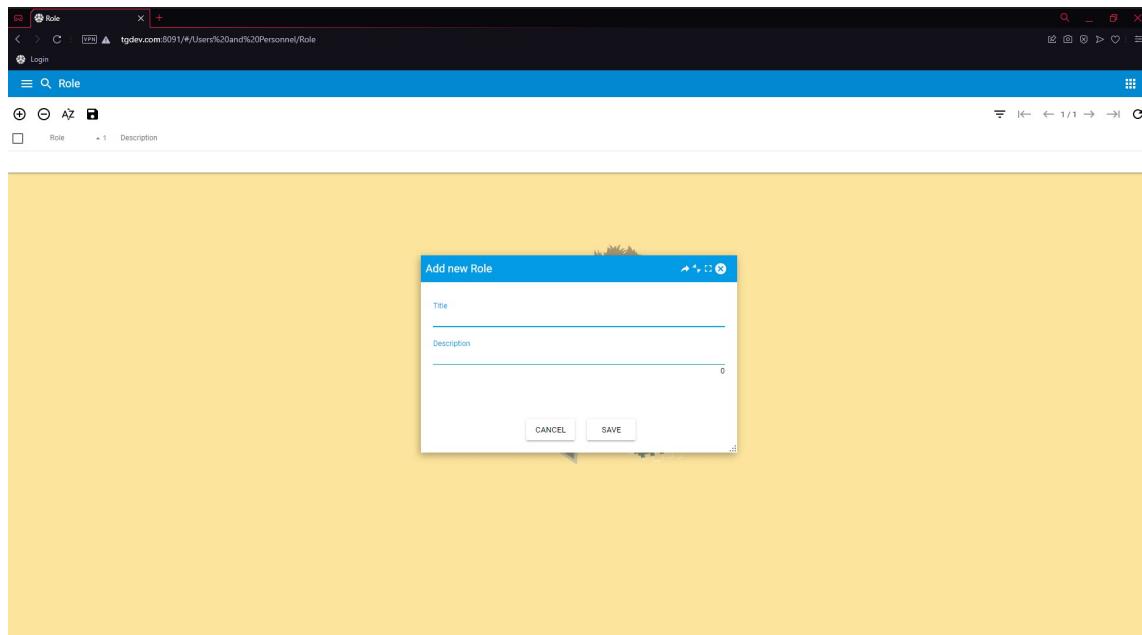


Figure 38: Role creation.

Fire Services TG-based System User Manual

Users can search for existing roles either by specifying title, or description, or both as displayed on Fig. 39.

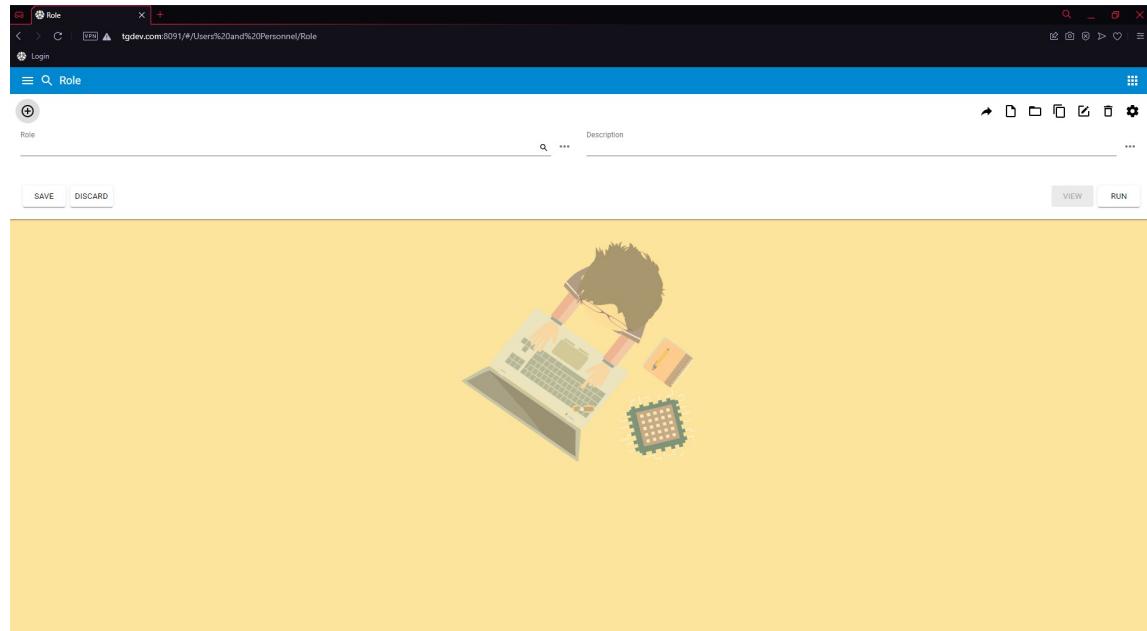


Figure 39: Role search.

Users can edit existing roles. On the ‘Main’ tab, displayed on Fig. 40, users can edit the title and description of the specific role.

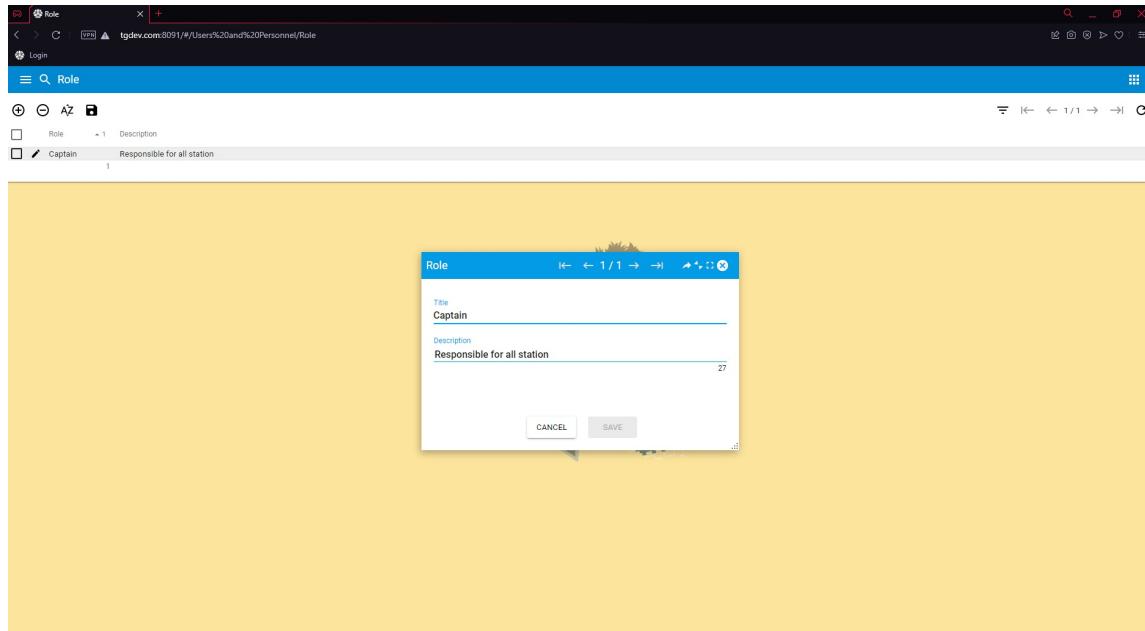


Figure 40: Role editing.

4.4 Person role

In order to assign a specific role to a worker at a specific date, users can create person role. When creating a new person role, users have to fill in the person, which is an autocomplete, role, which is also an autocomplete, and date when the role was assigned, as displayed on Fig. 41.

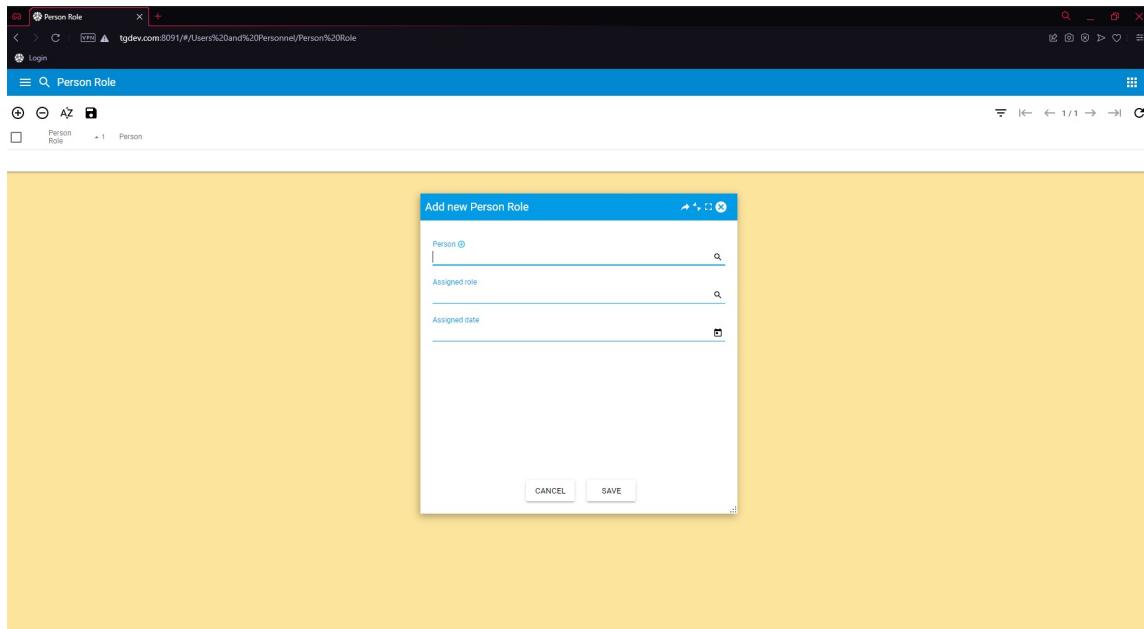


Figure 41: Person role creation.

Fire Services TG-based System User Manual

Person and role fields have autocomplete so there is no need to type full person or role name by hand.

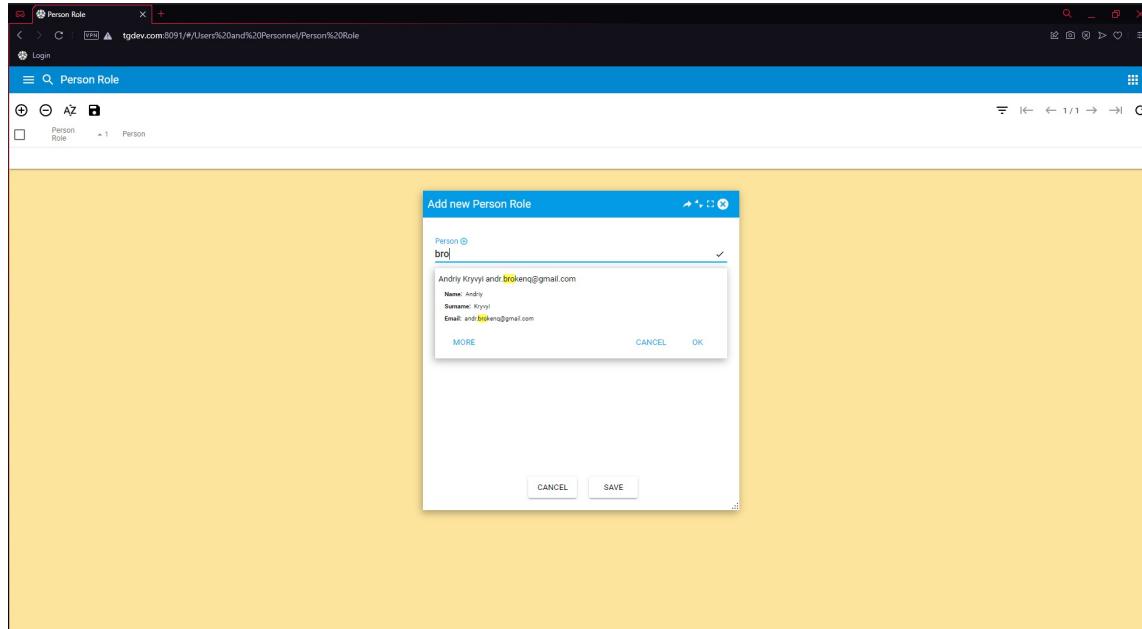


Figure 42: Person field autocomplete.

Fire Services TG-based System User Manual

Users can search for existing person roles either by specifying person, or role, or date range, or all of them as displayed on Fig. 43.

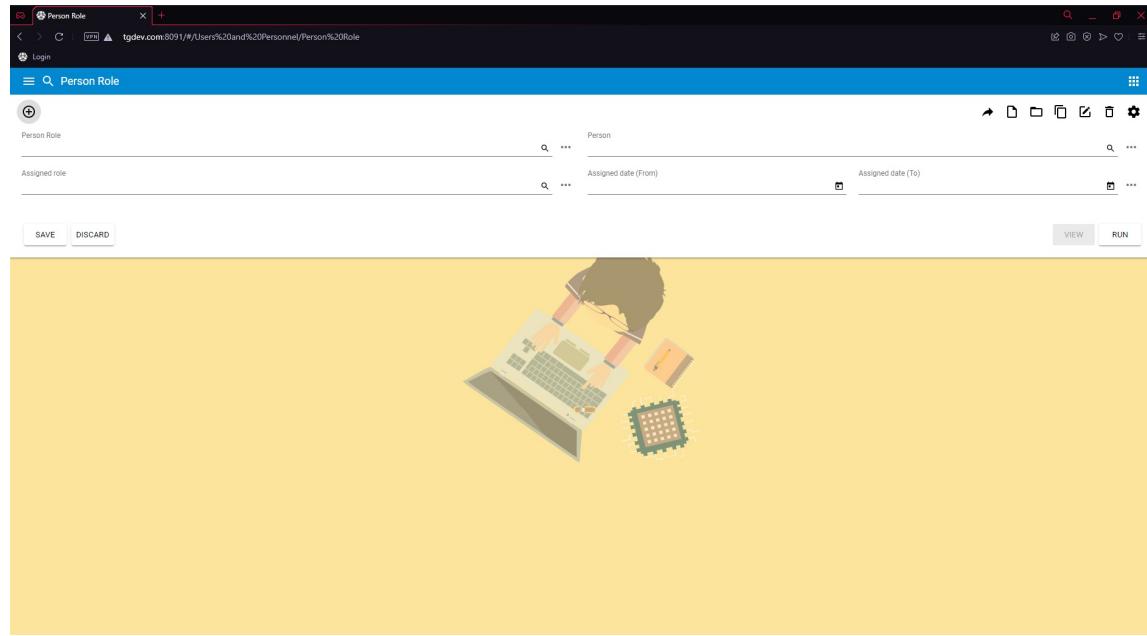


Figure 43: Person role search.

Fire Services TG-based System User Manual

Users can edit existing person roles. On the ‘Main’ tab, displayed on [Fig. 44](#), users can edit the person and role of the specific person role.

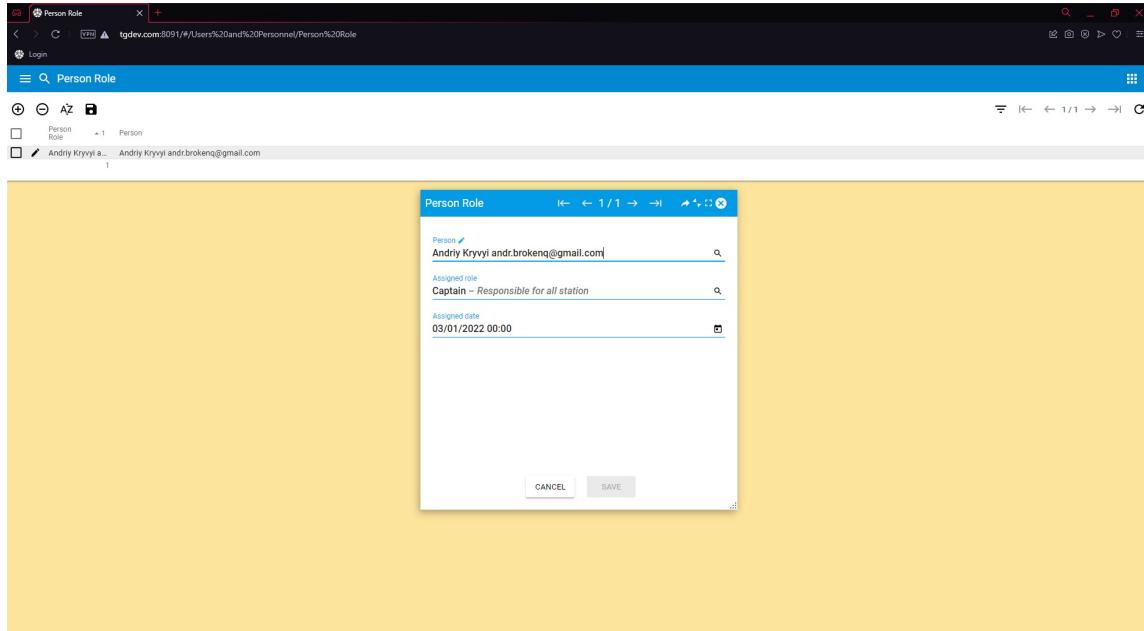


Figure 44: Person role editing.