

LIMITED LIABILITY COMPANY "IMMERSMED"

IM Platform

Documentation containing a description of the processes that ensure the maintenance of the software life cycle, including the elimination of faults identified during the operation of the software, software improvement, as well as information about the staff needed to provide such support

on 9 sheets

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1. General information about the System

The computer program "IM Platform" is a software platform that includes the basic functionality: differentiation of access to data and interface elements according to flexible rules; the possibility of creating a process control system; user authentication and authorization; file storage; unified search and filtering by views; work with multimedia and communication environment; the possibility of hybrid operation with heterogeneous sources; data visualization management; isolation of the functional business model from the core of the system.

Scope of the program: the platform is the basis for building software systems for continuous, centralized, multidisciplinary collection, control, accumulation and analysis of large amounts of data; application of machine learning methods in a wide range of areas of practical application, as well as process management of multidisciplinary clinics according to the "digital twin" concept.

2. Composition of software

For the functioning of the System, the following is required:

- operating system Windows Server or Astra Linux;
- PostgreSQL database
- runtime Microsoft .NET Framework; IIS
- application server.

The site created on the basis of "IM Platform" supports all modern browsers: Internet Explorer (supported versions - 11.0 and higher), Mozilla Firefox, Opera, Safari, Google Chrome.

3. Programming language

JavaScript is a fully fledged dynamic programming language that is applied to an HTML document and can provide dynamic interactivity on websites.

TypeScript is a programming language introduced by Microsoft in 2012 and positioned as a web application development tool that extends the capabilities of JavaScript.

HTML is the standardized markup language for documents on the World Wide Web. Most web pages contain descriptions of the markup in HTML.

CSS is a formal language for describing the appearance of a document written using a markup language.

LESS is a dynamic style language that was influenced by the Sass style language and in turn influenced its new "SCSS" syntax, which also uses a syntax that is an extension of CSS.

XML is an extensible markup language. The XML specification describes XML documents and partially describes the behavior of XML processors (programs that read XML documents and provide access to their content).

C# is an object-oriented programming language for the Microsoft .NET framework.

4. Platform administration

4.1 Managing access rights

The Platform is administered by an application administrator (in production and testing environments) and a developer (in a development environment). The System account management is based on the mechanism of using roles in the System.

4.2 Granting access to a user

The application administrator (in production and test environments) and the developer (in development environments) do the following:

In the Administration > Security > Users tab, click on the screen form - "Create":

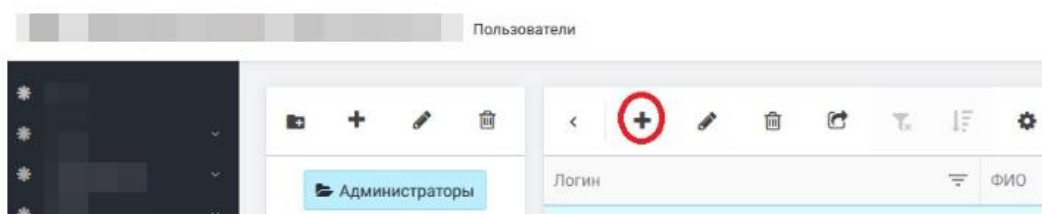


Figure 1 - Granting access to the user

In the search field, indicate the name of the user you want to add:

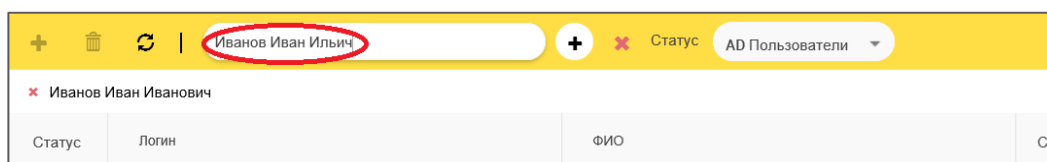


Figure 2 - Granting access to the user

4.3 Create a group

For each user role, an application group of the same name is created in the Platform. For application administrators, the Application Administrators application group is created in the Platform; for information security administrators, the Information Security Administrators application group is created in the Platform. In the development environment for developers, an application group "Developers" is created. The system administrator, database administrator does not have access to the Platform, so the creation of an application group for these roles is not required. In the tab Administration > Security > Users > Groups, click on the screen form - "Create":

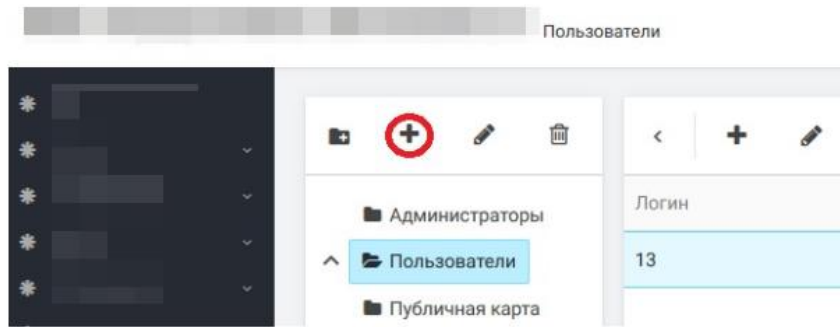


Figure 3 - Creating a group

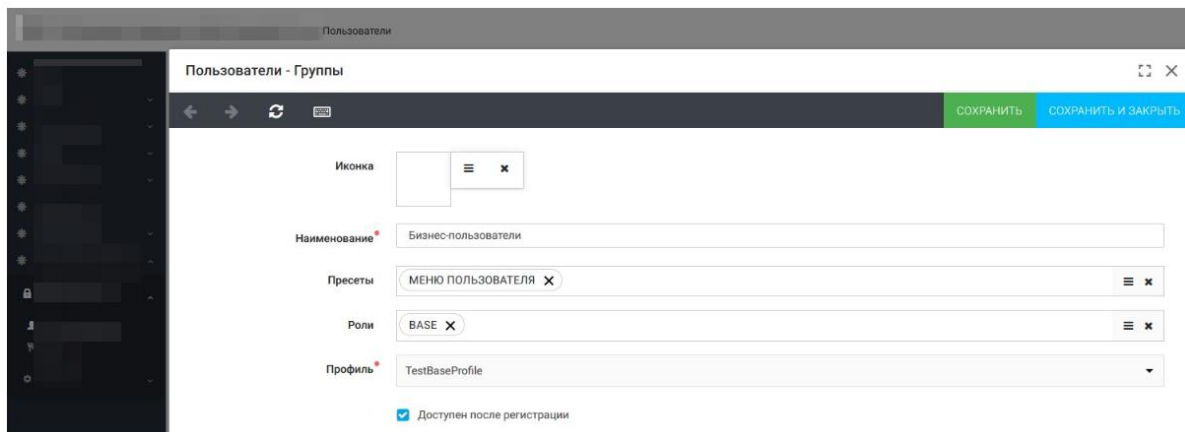


Figure 4 - Creating a group

In accordance with the Role assigned to the Group, users are assigned rights to objects.

4.4 Changing permissions and blocking user access

Change or withdrawal of powers from the user is carried out on the basis of an agreed application. The application specifies the list of required roles, including the current user roles. Permissions for unchecked roles are removed.

To add new permissions, the Application Administrator in the employee's card, on the "Main" tab, adds entries to the "Groups" section.

To create and configure Roles on the tab Administration > Security > Roles, click on the screen form - "Create":

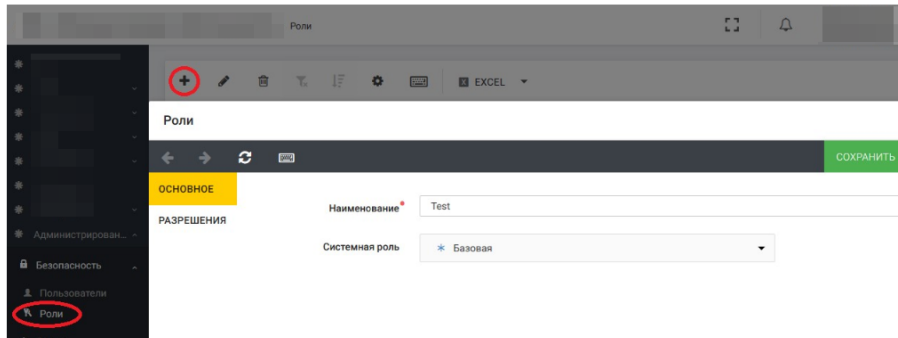


Figure 5 - Editing a role

For the created role, configures the rights to Objects:

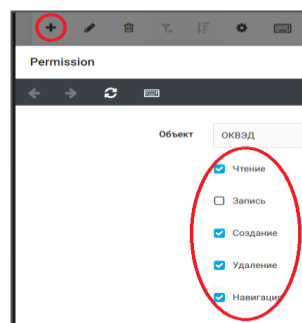


Figure 6 - Changing the permissions of the role

To block a user, go to Administration > Security > Users > Groups, double-click the mouse pointer on the selected user:

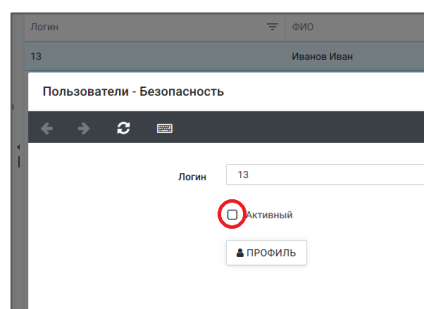


Figure 7 - User blocking

Remove the "Active" pointer in the opened screen form.

5. Personnel Information

5.1 Personnel ensuring the operation of the System at workplaces users

System Users must:

- have the skills to work with a personal computer at the level of an experienced user;
- have experience working with electronic documents;
- have experience using web browsers;
- know your job responsibilities; read the user manual of the System.

5.2 Personnel providing technical support and modernization

Specialists providing technical support and development of the System must have the following knowledge and skills:

- knowledge of the functionality of the System; knowledge of the features of working with the System;
- knowledge of legislation in the field of accessibility of information for citizens;
- knowledge of programming languages: Javascript, C#;
- knowledge of relational databases (PostgreSQL);
- Knowledge of database recovery tools and server performance monitoring.