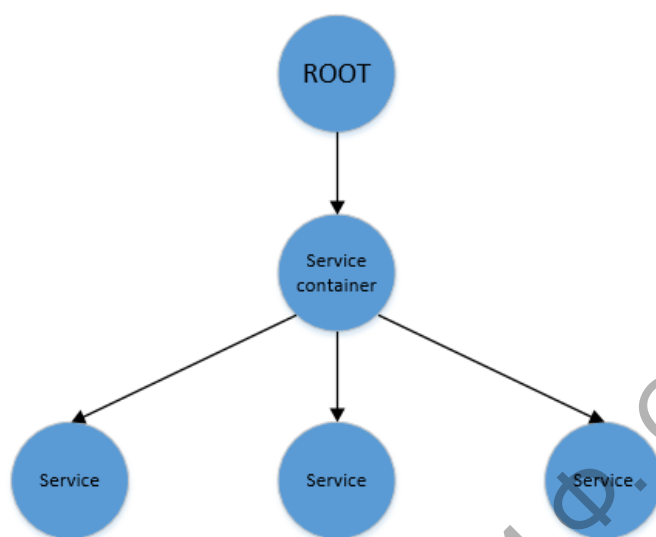


Project data flow is based via components. Entry point is a ROOT component, which will contain Service container component and inner-based Service components. (Picture 2)



Picture 2 – Project data flow

Overall, project describes basic concepts and processes of routine maintenance. Project contains modern JavaScript frameworks, related to modern designed architecture of the automated system.

Potential automated system was compared to existing ones in many scopes and processes. The course project has shown importance of this system in the current moment of time.

The system design proves its scalability, flexibility and customizability. It provides finest user experience to the users making their maintenance easy and fast.

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AUTOMATION OF ACCOUNT OF HOURLY LOAD OF DEPARTMENT TEACHERS

There is a sufficient number of software products that automate the processes of compilation, processing, distribution and information in the process of transfer of workflow in the work of universities, as well as solutions to the hourly load of teachers in the department. The main goal of this project was to create a better application, taking into account the task, excluding the load on the system with extra functionality.

Automation of account of the hourly load of the department teachers is aimed at increasing comfort and reducing labor intensity when working with documents, saving resources spent on the preparation of new documents, as well as reducing the time required to search for the necessary document.

This program is not being too heavy, but providing a wide functional. Doesn't require the installation of third-party programs for full-fledged work. Interfaces are created to take end user a better perception and interaction. All this affects slightly system load, the speed of computer work and provide good impression after work with the system as a whole.

In accordance with the functionality of our application, there are two types of scenarios for its use. These scenarios differ in the type of end-user. In the first case, the user is a client who can handle some data. In the second case, the user is the administrator, who can also operate on the data, as well as regulate the work of users.

Load distribution is based on the list of subjects and the list of teachers defined by the user. Building this option allows you to distribute the teaching of one subject between several teachers, providing for all possible options for office work.

In the process of development, projects were assigned 2 roles:

User. In the process of the software complex using can get some information about the working process with the ability to add, modify or delete data.

Administrator. Can manage users access to the system, configure abilities of users to get or modify information.

The basic workflow can be divided into several parts. First the user enters or registers in the system. After that, the user has the ability to work with the data. It can add them by importing files of various types, or by making manual changes through the interface. After all necessary changes, the data is formatted in a single format for entering into the database. In the end, the user can output a report with the information he needs.

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DEVELOPMENT OF APPLICATION FOR HOURLY LOAD OF DEPARTMENT TEACHERS

In the development process a variety of tools have been used. Consider main of them. First of all, the programming language was chosen, this is Java. The choice fell on Java because it allows you to develop high-performance portable applications on almost all computer platforms. It has a