the client is a specific group of people with unique requirements and conditions for providing the service for each such corporate association. Providing a convenient service to order meals in the office is a prerequisite for the provision of corporate policy. The company must provide its employees with an automated system for ordering food, as well as afford access to this system to vendors who will provide the service. The vendor should receive a functional for the monitoring and management of orders, filling the product base. The user should get a convenient way to order lunch.

Based on the above, the software product implements the following functionality and capabilities: the possibility of authorization using the corporate SSO system; functionality for choosing a product or services (applying all kind of filters, searches and sorting, tagging); convenient ordering system, input of time and office of delivery; the ability to view the status of your order and the order history (evaluation of product quality, delivery and service); possibility of registration in the vendor-partner system; providing the vendor with a convenient tool for managing the work process; functionality for filling the vendor's account with products, working with the discount system for the user; using the product integration system (inclusion of the service in the general information infrastructure of the company); receipt and use of employee's corporate data in the system.

Therefore, there are many services for the provider of services, but each individual corporate company needs to create its own software solution that will conform to special requirements and corporeal culture. That's why a product was created that meets the needs of the customer company.

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DESIGN OF SYSTEM FOR AUTOMATING THE SERVICES ORDERING FOR CORPORATE COMPANY

The project is based on the objective of creating a software product for automating the ordering of services for IT companies. For the application scenarios, the following roles and functionality were defined:

− Client. With the help of the system SSO gets access to the service, chooses the necessary product necessary and performs operations for the order.

− Vendor. He gets access to the part of the application that is responsible for managing orders, operations on products, discounts and other data.

− Employee of the vendor. Depending on the role, he gets access to his page, where he can perform a number of limited operations.

− Administrator. Gets the ability to manage the vendors, create offices for delivery, manage the accessibility of users, edit the database.

Determined the main precedents for the client: sign in/out (SSO); choice of vendors and office for delivery; choice of service products; ordering process; viewing history and order statuses; leave feedback for the delivered order. The main precedents for the vendor: sign in/out (login and password); view and edit the vendor profile; order management; adding and editing products. The main precedents for the vendor employees: sign in/out (login and password); order actions specific to each functional role. The main precedents for the administrator: sign in/out (login and password); adding/removing a vendor; activation/deactivation of the vendor in the application; management of vendor employees (creating accounts for them); creating and configuring offices for delivery.

The application for the automation of the services ordering of consists of 3 separate parts that are independent applications:

− User Part. A public application that all employees of the company will have access to. This part includes 4 pages: the authorization page, the main page with the choice of items, the basket for placing an order, the order history page.

− Vendor Part. The main page for the vendor is the dashboard, where the vendor can view and edit service information, configure its account. With a dashboard, the vendor can quickly go to the product page where the manager can perform CRUD operations on the goods, the order management page, where the manager can change order statuses and manage the flow of orders, the page for the production, packaging and delivery department. There is also an archive page where the manager can view client feedbacks.
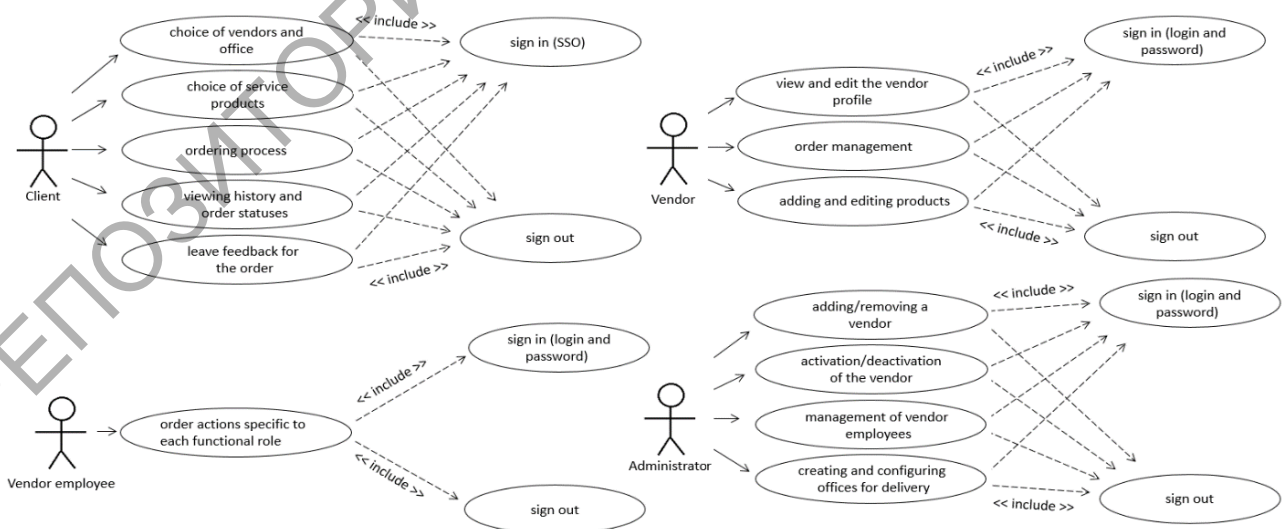

Picture 1 − Precedents of functionality for the system

− Admin Part. Consists of a multifunctional page-dashboard where the administrator can configure the application and change data about vendors, company offices, etc.

Each of the parts of the application consists of the client front-end part and the backend. The backend is built as RESTful API, and the client applications are a SPA (Single page application) application.

In order to synchronize applications with each other and ensure a unified data, used a common relational database. This allow us to interact with the same data from several parts of the applications.
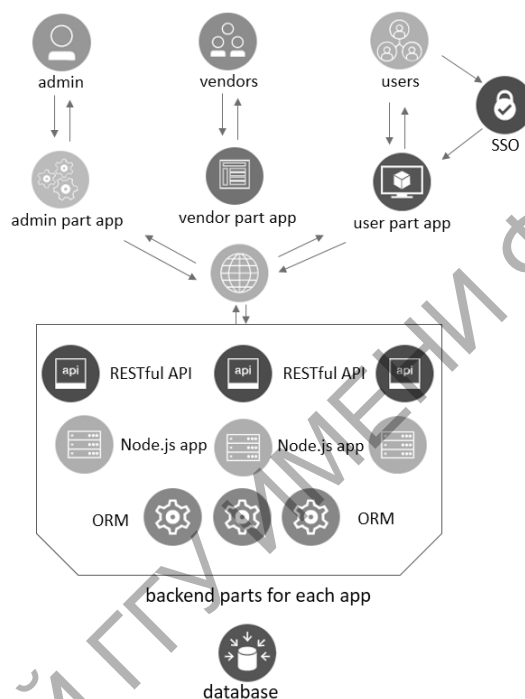
Picture 2 – Application structure

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APPLICATION ARCHITECTURE FOR MONITORING THE IMPLEMENTATION OF ROUTINE MAINTENANCE

Scheduled works are an effective means of maintaining the reliability of vehicles.

High quality and short terms of performance of routine works on any type are provided by using the most advanced planning methods (network linear schedules), rational distribution of specialists, ensuring a high load factor for each and completing work on all specialties in a single term.