

DEVELOPMENT OF A WEB-ORIENTED INFORMATION SYSTEM FOR FOOD STORAGE CONTROL

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Waste food is one of the global problems of modern man. Expired expiration dates, improper storage, or excess food in the refrigerator - all lead to throwing food into the garbage can.

Every year, people throw away 931 million tons of food, 17% of all available food. In addition to polluting the environment, irrational consumption leads to excessive spending on products that may not even be used. In families, it often happens that several family members buy the same product. Some products spoil because the expiration date was not observed. Also, 10% of all food poisonings are products spoiled at home. All these facts create a huge problem for many people. And to solve these and many other problems, information systems for accounting for products in the refrigerator are being developed. Systems that will remind the owner of the refrigerator that the expiration date of some products will soon expire, and will help to understand what is in the refrigerator so as not to buy too much. The relevance of the research is determined by the need to increase the value of using each product through effective data analysis.

The final goal of the work is the development of an information system (IS), which should reduce the number of products thrown into the trash. This will help save money and the health of users.

Based on information about existing similar systems, a decision was made to create an IS using an API. The Front End will receive the API from the backend with all the necessary system and user data. The system should provide the user with data of various volumes with a minimum time delay between requests to the server.

It was decided to use GraphQL. It is a query language for APIs, as well as an environment for executing these queries with existing data.

The following business requirements are formulated for the selected information system:

- entering the bar code and description of each new product into the database;
- correct display of products entered by the user;
- expiration date notification;
- use of the UI/UX approach to the development of the appearance of the IS;
- fast data retrieval from the server part;
- correct display of data from the database;
- description of the rules for using the application interface;
- user interface documentation;
- availability on any device.