This approach significantly accelerates the delivery of up-to-date data by immediately invalidating the cache after a system change. In other words, pages regularly receiving new content will be updated regularly, while those without recent changes will not undergo a rerender.

Results from the conducted experiment demonstrate that the proposed approach effectively addresses the identified problem without compromising performance compared to the Next.js Serverless approach.

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DEVELOPMENT OF TECHNOLOGIES FOR NON-ALCOHOL AND LOW-ALCOHOL BEVERAGES CONTAINING FRUIT JUICES AND VITAMIN AND MINERAL COMPLEXES

Recent research from the National Institute for Health and Care Research shows an increase in the consumption of non-alcohol and low-alcohol drinks by the adults. However, there should also be mentioned a negative trend of the high cost of such drinks being followed by the increase in health inequalities if people from poorer families can't afford them (according to the data of 2022) [4].

According to Fortune Business Insights, manufacturers are investing in low-alcohol beverages to improve taste, variety and quality, which has a positive impact on the market. A variety of innovative products from different manufacturers, including low-calorie low-alcohol fruit drinks, have attracted consumer attention [1].

In recent years, the growing consumer interest in health and wellness trends has become a key factor in the development of the non-alcohol beverage market. In addition, the negative health effects of alcoholic beverages, such as cardiovascular disease and hypertension, lead to the consumer choice of beverages with lower alcohol content, which is driving the market growth [2].

In the past, drinks were diluted with water or carbonated beverages. Carbonated drinks contain a lot of sugar and irritate the stomach walls, which can lead to gastrointestinal disorders. According to the National Institutes of Health, this is due to the effect of carbon dioxide on changes in gastrointestinal physiology through direct effects on the mucous membrane and indirect effects, mediated by the mechanical pressure exerted by the gas. The role of sugar or artificial sweeteners as factors involved in carcinogenic processes is also discussed [5].

Similar factors have led to the application of fruit juices and nectars in non-alcohol and low-alcohol drinks. This also makes such drinks less harmful, as they contain a variety of vitamins, nutrients and less sugar than fruit. In addition, non-carbonated drinks do not irritate the stomach wall, which reduces the risk of gastrointestinal disorders.

Pearl powder is made by fine grinding of fresh or salted pearls into a flour-like powder. This powder is becoming increasingly popular in the modern cosmetic world, being added to both skin care products and nutritional supplements [3].

Pearls contain essential minerals and amino acids that are important for optimal protein production and have a long history in ancient traditional medicine. Collagen peptides are among a large number of proteins involved in the stimulation of pearls. The collagen found in skin cells helps to keep your skin young, healthy and radiant. In addition to its impressive beauty benefits, pearl powder is rich in calcium, making it ideal for supporting metabolism and bone strength [3].

Due to these properties, there is a demand for adding pearl powder to dishes, as well as to non-alcohol and low-alcohol drinks, in the form of a mineral compound.

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INFUSION OF ARTIFICIAL INTELLIGENCE (AI) INTO ECONOMY: ANALYSIS OF CURRENT TRENDS

Humanity is developing every day, nothing stands still. Every year new technologies appear, and artificial intelligence is increasingly often taking part in our lives. This article delves into contemporary trends and impacts of AI on economies and societies, highlighting key developments and analyzing their implications.

Artificial intelligence (AI) is a branch of science that deals with the creation of computer systems that can perform tasks that usually require human intelligence. These systems can detect mental functions such as problem-solving, learning, speech and facial recognition, decision-making, and planning.

The main components of AI are:

1. Machine learning: This is a subset of AI that studies algorithms and models that allow computers to learn from data and experience, and to make predictions and decisions without explicit programming.

2. Deep learning: This is a sub-branch of machine learning that uses multi-layered neural networks to solve complex pattern recognition and natural language processing problems.

3. Natural language: This is a branch of AI that studies the processing methods and understanding a human language, which allows computers to interact with people through speech or writing.