GRAPH MODEL OF ELECTRONIC TRADING SYSTEM

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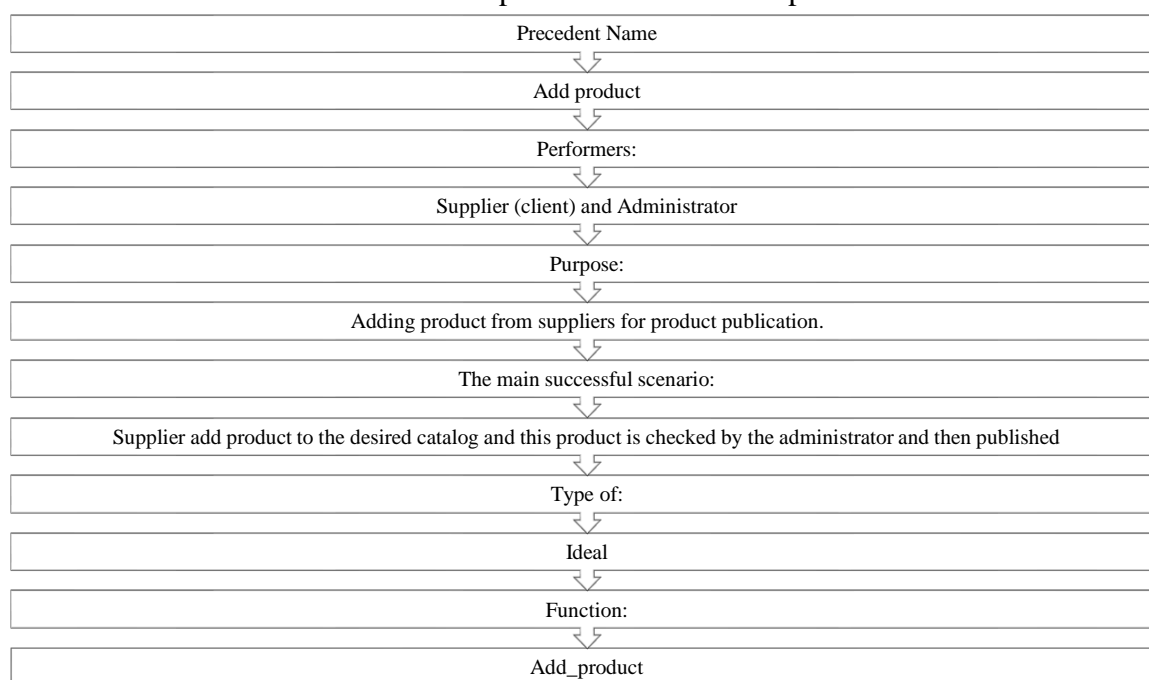
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The graph model is presented in the form of a diagram reflecting the relationship between entities and precedents and being an integral part of the use case model, which allows describing the system at a conceptual level. A precedent is the possibility of a simulated system (part of its functionality), thanks to which the user can get a specific, measurable and desired result [1]. The precedent corresponds to a separate service system, determines one of the options for its use and describes a typical way of user interaction with the system. Use cases are typically used to specify external system requirements.

The main use case for this area is the addition of a product. This process involves both suppliers (the client) and the administrator. The main goal of the process is to add goods from suppliers. To achieve the goal, it is necessary to choose from the list of available catalogs of interest, to further form the product [2]. This process is managed by the IP administrators, that is, verifies the product data and suppliers, and then this product is published in the e-commerce IP. This use case is described in Scheme 1.

Scheme 1. Description of use case "add product"

Precedent Name
Add product
Performers:
Supplier (client) and Administrator
Purpose:
Adding product from suppliers for product publication.
The main successful scenario:
Supplier add product to the desired catalog and this product is checked by the administrator and then published
Type of:
Ideal
Function:
Add_product

Scheme 2 describes the use of the online ordering entity. Another major use case for the area in question is ordering — online. The buyer participates in this process. The main goal of the process is online ordering by customers. To achieve the goal, it is necessary to choose from the list of available catalogs of interest, then form the product. This process is driven by buyers. Typically, a typical course of events is described using a scheme, where the actions of external performers are given in the first column, and the response of the system to the performers in the second column[3].
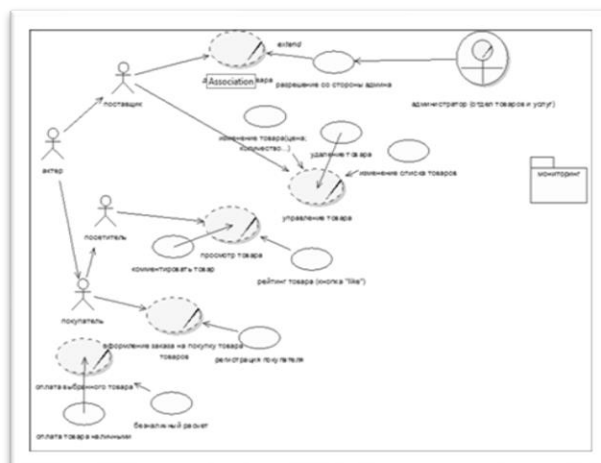
Fig. 1. Graph model of use cases
Next, a graph model of the process of adding a product is presented, Figure 2.

Fig. 2. The process of adding goods

The projected electronic trading platform will allow individual modeling of business processes, possessing qualities that ensure its leading position in the market of procurement management systems: self-sustaining information system; flexibility and high speed of adaptation to changes in legislation; cross-platform integration; storing the main body of data and performing key calculations in the "cloud" (IT solution infrastructure)[4]; high readiness for operational expansion, development and connection of additional modules; conducting procurement procedures in accordance with the legislation of the Republic of Uzbekistan; automatic posting of information on ongoing procurement procedures on the website of the Chamber of Commerce of Uzbekistan; Intelligent, customizable monitoring, analytics and reporting.

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