

RESEARCH AND AUTOMATION OF RESTAURANT BUSINESS**R.I. KURINNYI^{1*}, A.E. FILATOVA²**

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Automation of restaurant processes is an integral part of modern service companies. Consequently, the development and implementation of new existing scientific approaches and technologies in the industry to provide services is urgent and important task of automation processes in restaurant business.

The main goal of this work is to develop mobile application and information technology for quick ordering and workflow management of all institutions, based on the studied actual problems of the restaurant business.

Automation of restaurant business provide us a possibility to optimize accounting, reduce costs by increasing the intensity of labor, sharply reduce the number of human errors, automate time-consuming operation, store, process and analyze data of the enterprise, and so on. Today's software and electronic equipment help us to automate jobs of waiter, cashier, bartender, manager, kitchen and other structural units of cafe and restaurant. Today's focus for the implementation of POS-systems for business management is to use products of Apple, namely iPad Tablet on iOS platform [1]. Theoretical studies and methods of solving problems of POS-system are based on the research method of system analysis and decision support methods in the processing of orders. Generalized scheme for information changes in DSS was developed and its stages were formalized [2].

First time proposed, substantiated and used method of placing orders without the waiter and cashier, which unlike existing uses extremely handy and clear user interface and methods of payment orders and tips derived from business research that can increase efficiency, speed and convenience of order process. Thanks to the mobile POS Swipes card reader for order payments and a reliable system of protection the possibility of theft was reduced to a minimum.

POS-system helps to manage the various processes of the institution. Waiters can easily find the customers table. Cook receiving a list of dishes to be prepared immediately after ordering. Management of the institution at any convenient time can get financial reports and information about the work of the staff.

List of references:

1. *Hailess A.* Objective-C Programming: The Big Nerd Ranch Guide / *A. Hailess* // Big Nerd Ranch, LLC. – 2013. – P. 22.
2. *Neuburg M.* iOS 7 Programming Fundamentals: Objective-C, Cocoa / *M. Neuburg* // O'Reilly Media. – 2013. – P. 12 – 40.