

ABSTRACT

AUTOMATED REAL-TIME EMPLOYEE MANAGEMENT SYSTEM WITH GEOLOCATION, INSTANT COMMUNICATION AND ACTIVITY STATUS MONITORING: diploma thesis/ N. J. Mulumba. – Gomel: Sukhoi State Technical University of Gomel, 2025. – Diploma thesis: 150 pages, 27 figures, 6 tables, 18 sources, six appendices.

Keywords: automated system, geolocation, employees, instant communication, activity status.

The object of development is an automated employee management system.

The purpose of this work is to develop an automated employee management system that operates in real time with geolocation, and allows instant communication with employees and monitoring of their activity status.

The work was carried out in several stages. The first stage: studying existing employee management systems with tracking of their geolocation and development tools necessary for the implementation of the system. At the second stage: design, development and verification of the application that manages employees and monitors activity statuses. The third stage: economic calculation and justification of the profitability of the development. The fourth stage: an analysis of the implementation of the development from the point of view of resource and energy saving issues.

The student confirms that the thesis has been completed independently, the material provided in the thesis objectively reflects the state of the object being developed, the explanatory note has been checked in the Antiplagiat system (<https://www.duplichecker.com>). The originality of the text is 76%. All theoretical and methodological provisions and concepts borrowed from literary and other sources are accompanied by references to the sources indicated in the «List of references».

Резюме

Тема дипломной работы «Автоматизированная система управления сотрудниками в режиме реального времени с геолокацией, мгновенной связью и контролем статуса активности».

Объектом исследования являются автоматизированные системы управления сотрудниками

Целью данной работы является разработка автоматизированной системы управления персоналом, работающей в режиме реального времени с использованием геолокации, позволяющей мгновенно связываться с сотрудниками и отслеживать статус их активности.

Основным результатом работы является разработанная автоматизированная система управления сотрудниками в режиме реального времени с геолокацией, мгновенной связью и контролем статуса активности

Рэзюмэ

Тэма дыпломнай працы «Аўтаматызаваная сістэма кіравання супрацоўнікамі ў рэжыме рэальнага часу з геолокацыяй, імгненнай сувяззю і кантролем статусу актыўнасці».

Аб'ектам даследавання з'яўляюцца аўтаматызаваныя сістэмы кіравання супрацоўнікамі

Мэтай дадзенай працы з'яўляецца распрацоўка аўтаматызаванай сістэмы кіравання персаналам, якая працуе ў рэжыме рэальнага часу з выкарыстаннем геолокацыі, якая дазваляе імгненна звязвацца з супрацоўнікамі і адсочваць статус іх актыўнасці.

Асноўным вынікам працы з'яўляецца распрацаваная аўтаматызаваная сістэма кіравання супрацоўнікамі ў рэжыме рэальнага часу з геолокацыяй, імгненнай сувяззю і кантролем статусу актыўнасці

Abstract

The topic of the thesis is «Automated real-time employee management system with geolocation, instant communication and activity status monitoring».

The object of the research is an automated employee management system The object of the study is to develop an automated employee management system that operates in real time with geolocation, and allows instant communication with employees and monitoring of their activity status.

The main result of the work is developed automated system for managing employees in precise time mode with geolocation, instant communication and control of activity impact.