

ured to work through the Tor network, which, multiplexing traffic, sends it through a virtual chain of Tor and provides anonymous web surfing.

Inside the Tor network traffic is forwarded from one router to another, and finally reaches the exit point from which pure (non-encrypted) data package already comes to the original destination address (the server). Traffic from the receiver back to the exit point is sent to the Tor network.

In the Tor network each day comes more than 2 million unique users. Deployed more than 7,000 nodes and 2,000 bridges.

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OVERVIEW SOLUTIONS FOR CREATING VACATION SCHEDULER

Рассматриваются функциональные возможности приложения, позволяющего управлять планированием отпусков на предприятиях в различных отраслях. Данное приложение позволяет повысить эффективность учета кадров за счет использования веб-технологий.

All employees have rights on paid vacation. But all staff can not go to vacation at the same time and the company can not stop working. Therefore it's necessary to plan vacation schedule that ensures the right of employees to the rest and protects the employer.

Vacation schedule is created according to the wishes of employees and takes into account the characteristics of the work process. Collective agreement or other legal act the maximum number of people can be established that, by working in a particular department, can simultaneously be on vacation. This is done in order to not suffer and not to stop the workflow.

At this moment there are different applications, where employee can create his own vacation: «Employee's vacation schedule», «Grafic+NET», «ShiftPlanning», etc. But each program has disadvantages.

In «Employee's vacation schedule» if the vacation schedule is constructed by hand, so date of release of each employee shall be entered in a MS Excel worksheet. For visualize the data, sometimes by hand, draws a general schedule of vacation. It is inconvenient and time-consuming work.

In «Grafic+NET» the application was developed only for Windows platform that is problem for users of other OS and must contain .NET Framework 4.

In «ShiftPlanning» initial setup can be time-consuming because of the in-depth employee profiles.

Thus the problem of creating more effective application for planning vacation is actual. The goal is to improve the efficiency of the working process in modern conditions through the usage of new information technologies, avoiding excessive multi-functional, but giving opportunities for empowerment, that provides ease of using and accessibility for users of different systems and with different activities.

Restrictions:

- no Internet requirement;
- cross-platform.

The criterion of effectiveness of the development:

- reducing the time spent on initial setup;
- increase appraised;
- simplicity of design.

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TECHNICAL ASPECTS OF IMPLEMENTATION OF INFORMATION SYSTEM OF THE VACATION PLANNING FOR THE COMPANY «IBA GOMEL»

Рассматриваются технические детали реализации приложения для планирования отпусков. Данное приложение разработано для предприятия «ИБА Гомель» и находится в тестовой эксплуатации.

The information system of the vacation planning was developed for the company «IBA Gomel». It allows employees to send leave and vacation requests to management by simply logging in to the application. This feature provides employees with more freedom to ask for the leave time they desire for personal events, and provides management with an efficient. This data is kept in a centralized location and is automatically accounted for during employee scheduling.

For the development of this application a standard set of software and technologies for was used.

The project is an application in the Java programming language (JSE 8, JEE 7). Integrated development environment is Eclipse Neon (latest stable) with plugins: JBoss Tools, Vaadin and DBeaver. Framework Vaadin 7.7.6 (latest stable) was used to develop a user interface. With Vaadin, leverage java language, professional tooling and skills to build web user interface. No