

DEVELOPMENT OF A SOFTWARE PRODUCT FOR DAILY PLANNING AND ITS IMPROVEMENT DIRECTION

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Abstract

The article describes a software application for effective organization of personal and work affairs. Either a personal or just a work calendar can be created on its basis. The main patent of the software product is described, and the following technologies are used: Android Studio, Java, Kotlin.

Keywords: Mobile application, Android ecosystem, Android Studio, Java.

Анотація

В статті розглянуто програмний додаток для ефективної організації власних та робочих справ, завдяки якому можна створити особистий, або просто робочий календар. Описано головну ідею програмного продукту, та використано технології: Android Studio, Java, Kotlin.

Ключові слова: Мобільний додаток, екосистема андроїд, Android Studio, Java.

Introduction

Nowadays, the problem of effective daily planning is one of the most common challenges for individuals, as not everyone knows how to organize their day efficiently. This raises the question of how to optimize time management during planning and make the interface convenient and accessible.

The "IU" (Intelligence Unique) application helps plan not only the work-related part of the day but also allocates time for various hobbies. It features notifications about the start and end of activities, user activity tracking displayed in a chart, and the ability to create a unique schedule that differs from others and can be adjusted at any time.

Project Goal – to enhance users' efficiency in everyday life. Another important feature is reminders for significant events using the voice of a well-known personality that is convenient for the user.

Object of Research – technology for developing a daily work plan based on a calendar.

Subject of Research – software tools for developing the "IU" application on the Android OS.

Analysis of the Issue

Nowadays, mobile applications have taken over smartphones and a significant portion of people's free space. It is important for everyone to manage their time effectively and use it wisely, and with the emergence of various types of applications, this has become easier. That is why this development is designed for use on the Android mobile platform [1]. Further development will take place on a desktop platform to expand the audience and enable synchronization of workspace scenarios across all devices used by a specific user. The creation of scenarios is achieved through a constructor and a selection of available templates.

Data storage in the application is carried out through local processing on the device and saving program data. While working on the application, improvements to the data processing and storage structure are planned so that data can be stored on a server [2]. The success of task completion will be demonstrated in the form of a chart displaying tasks that were added to the calendar. The transmission of relevant data is carried out via the Internet. The server-side software will store the scheduled scenarios, user profiles, and backup processing.

Future plans include the ability to customize the calendar and user profile with animated frames, wallpapers, and many other features.

Program development

The development of the day planning application was based on the Java programming language. Using this language reduces the cost of compiling program code in the Android operating system environment, allowing the application to run efficiently.

The "IU" application is built using the latest version of the Java Development Kit (JDK) [3]. Thanks to the updated version of Java, it is possible to develop specific functional components using new features. When creating an application for the Android platform, it is essential to use the latest Java version, as it provides access to auxiliary tools [4].

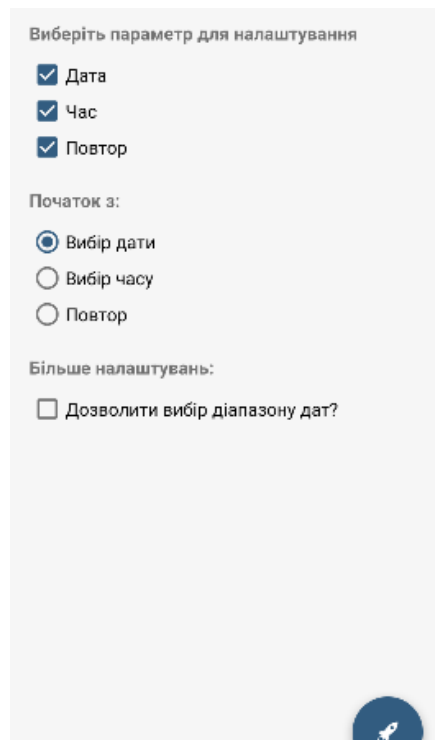


Figure 1 – Main menu in the “IU” application

The main function of the application development is the creation and customization of the menu. Simple parameter settings help users create a unique schedule [5][6]. The menu allows adjusting a specific date, time, notification range, and notification type, ensuring that no important moment in life is missed.

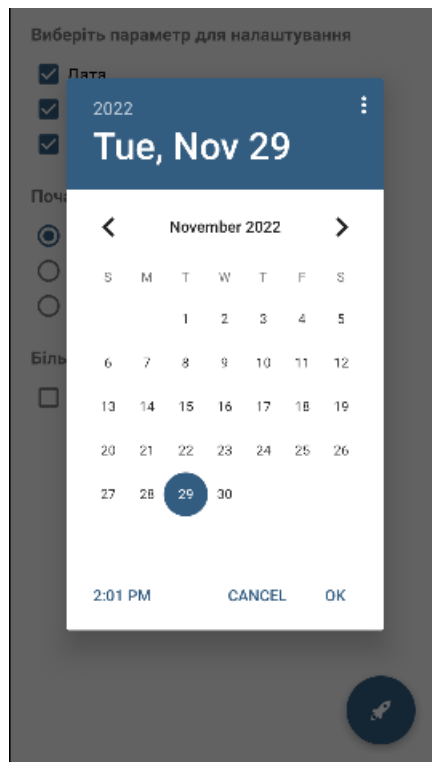


Figure 2 – Date selection

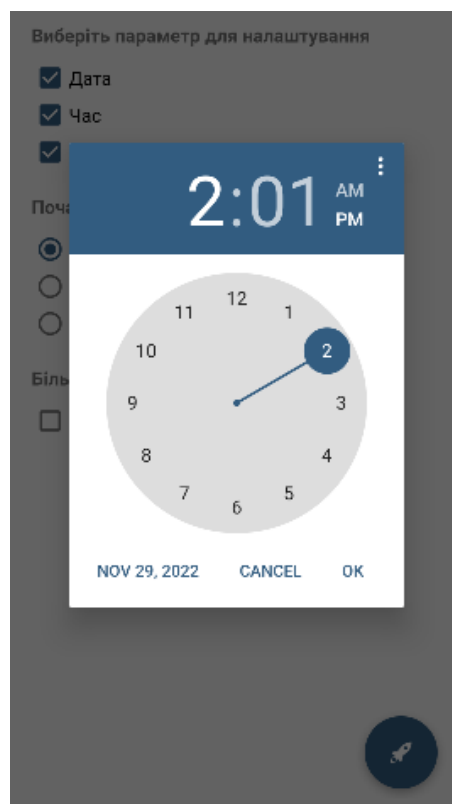


Figure 3 – Time selection

If necessary, the application components can be rewritten in other programming languages, enabling the use of different application servers and expanding functionality [7].

That is why Android Studio is used in the development of the "IU" day planning application, providing great potential for future growth.

Conclusions

The article describes the main features of the development process and the decisions made during the creation of the "IU" application. It was decided to use the Java programming language and the Android Studio development environment. As a result, the "IU" application for daily scheduling was created.

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