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TEACHING PROGRAMMING COLLABORATIVELY THROUGH GOOGLE COLAB AND GITHUB INTEGRATION

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Abstract. This article discusses the methodology of teaching programming collaboratively and managing practical exercises remotely based on the integration of Google Colab and GitHub platforms. The study analyzes the opportunities provided by a cloud-based collaborative environment that enables students to develop algorithmic thinking, improve teamwork skills, and manage software projects in real time within modern digital learning contexts. The article presents practical examples of writing Python programs via Google Colab and versioning, analyzing, and applying code in group projects through GitHub. Additionally, it highlights students' engagement in remote practical exercises, monitoring mechanisms, methodological recommendations for instructors, and proposes a collaborative teaching model. The research results demonstrate that integrated cloud platforms enhance the effectiveness of programming education and foster students' creative and collaborative competencies.

Key words: Google Colab, GitHub, remote learning, cloud environment, collaborative programming, virtual laboratory, practical exercises, version control, algorithmic thinking, project-based learning.

Annotatsiya. Ushbu maqolada Google Colab va GitHub platformalarining integratsiyasi asosida dasturlash fanini hamkorlikda o'qitish hamda amaliy mashqlarni masofadan boshqarish metodikasi yoritilgan. Zamonaviy raqamli ta'lim sharoitida talabalarda algoritmik fikrlashni shakllantirish, jamoada ishlash ko'nikmalarini rivojlantirish va dasturiy loyihalarni real vaqt rejimida boshqarish imkonini beruvchi bulutli hamkorlik muhiti imkoniyatlari tahlil qilingan. Maqolada Google Colab orqali Python dasturlarini yozish va GitHub orqali kodlarni versiyalash, tahlil qilish hamda guruhli loyihalarda qo'llash usullari amaliy misollar asosida asoslab berilgan. Shuningdek, talabalarning masofaviy amaliy mashg'ulotlar jarayonidagi faolligi, nazorat mexanizmlari, o'qituvchilar uchun metodik tavsiyalar hamda hamkorlikda o'qitish modeli taklif qilingan. Tadqiqot natijalari integratsiyalashgan bulutli platformalar dasturlashni o'qitishda samaradorlikni oshirishini va talabalarda ijodiy hamda hamkorlik kompetensiyalarining rivojlanishini ta'minlashini ko'rsatgan.

Kalit so'zlar: Google Colab, GitHub, masofaviy ta'lim, bulutli muhit, hamkorlikda dasturlash, virtual laboratoriya, amaliy mashg'ulot, versiya nazorati, algoritmik fikrlash, loyiha asosida o'qitish.

Аннотация. В данной статье рассматривается методика совместного преподавания программирования и дистанционного управления практическими занятиями на основе интеграции платформ Google Colab и GitHub. Исследование анализирует возможности облачной среды для совместной работы, которая позволяет студентам развивать алгоритмическое мышление, навыки командной работы и управлять программными проектами в режиме реального времени в условиях современного цифрового обучения. В статье приведены практические примеры написания программ на Python с использованием Google Colab, а также версионирования, анализа и применения кода в групповых проектах через GitHub. Также рассматриваются вовлечённость студентов в дистанционные практические занятия, механизмы контроля, методические рекомендации для преподавателей и предлагается модель совместного обучения. Результаты исследования показывают, что интегрированные облачные платформы повышают эффективность преподавания программирования и способствуют развитию творческих и совместных компетенций студентов.

Ключевые слова: Google Colab, GitHub, дистанционное обучение, облачная среда, совместное программирование, виртуальная лаборатория, практические занятия, контроль версий, алгоритмическое мышление, проектное обучение.



INTRODUCTION

In contemporary educational contexts, information and communication technologies have fundamentally transformed the teaching and learning process. In particular, interactive and remote methodologies are increasingly significant in programming education. The use of modern digital platforms is essential for enhancing collaboration between students and instructors, facilitating the remote management of practical exercises, and providing opportunities for real-time coding experience.

Google Colab is a cloud-based environment that allows writing, executing, and sharing Python code in real time. GitHub, on the other hand, provides version control for software, facilitates collaboration on team projects, and enables code tracking. By using these platforms together, students can perform practical exercises remotely, review their own code, and collaborate effectively with each other.

This article analyzes methods for teaching programming collaboratively and effectively managing practical exercises remotely using the integration of Google Colab and GitHub. It also provides recommendations for creating an interactive learning process for students and enhancing their programming skills.

Review of literature on the subject

In recent years, numerous studies have been conducted on remote and collaborative programming education. There is scientific evidence demonstrating the effectiveness of using cloud environments and version control systems in teaching students programming.

In the study “Analysis of Student Pair Teamwork Using GitHub Activities” by Niki Gitinabard, Zhikai Gao, Sarah Heckman, and Tiffany Barnes, the processes of pair work within student teams were analyzed. The study evaluated the team’s collaboration style—collaborative, cooperative, or solo submit—based on GitHub commit histories.

In the article “The Impact of GitHub on Students’ Learning and Engagement in a Software Engineering Course” by Prutha Patani, Saurabh Tiwari, and Santosh Singh Rathore, the results of an experiment conducted with 319 students were analyzed. The study showed that the use of the GitHub platform positively influenced the development of students’ programming skills and their ability to work collaboratively on software development projects.

In the article “Dasturlashni o’rganishda zamonaviy texnologiyalarning o’rni (Visual Studio Code, GitHub, Replit misolida)” by G. Boltayeva, Q. Yusupov, and M. Matyoqubova, the role of modern programming environments and tools—GitHub, Replit, and VS Code—was analyzed in enhancing students’ skills in the learning process.

These studies demonstrate that a teaching methodology integrating cloud environments and version control systems is an effective tool for developing practical programming skills and strengthening collaborative teamwork among students. Furthermore, the possibility of real-time collaboration and joint project work significantly improves the quality of the educational process.

RESEARCH METHODOLOGY

Google Colab is a cloud-based environment that allows writing, executing, and sharing Python code in real time. Students benefit from the following advantages of this platform:

Google Colab provides students with the opportunity to write and execute code on high-performance virtual machines, regardless of the computing capabilities of their personal computers. This is especially important for tasks requiring complex computation, such as working with large datasets, mathematical modeling, machine learning algorithms, or graphical visualization. By working in a cloud environment, students eliminate technical barriers caused by hardware limitations and can quickly test and optimize their code. At the same time, this cloud-based environment teaches students to work collaboratively remotely, as all users can simultaneously work in the virtual environment, view changes, and share results. This method makes the learning process interactive and effective, enhances students’ independent working skills, and enriches their experience in implementing complex projects.

The Google Colab platform allows multiple users to edit documents simultaneously. This feature significantly improves the effectiveness of working collaboratively on group projects, performing pair programming practices, and developing code jointly. Through real-time collaboration, students exchange ideas, quickly identify errors in coding, complement each other’s knowledge, and develop problem-solving skills together. Additionally, the instructor can monitor each student’s activity in real time and provide guidance or comments if necessary, which significantly facilitates the effective management of remote learning.

After executing code, Colab automatically displays results, including graphs, diagrams, tables, and other visual elements. This simplifies understanding of the output for students and allows them to instantly share the results with classmates or the instructor. Visualization of results not only helps students better understand how



the code works but also develops skills in data analysis, problem identification, and optimization. Quick sharing of visual results enhances the interactivity of the learning process and encourages knowledge exchange among students.

Therefore, Google Colab is considered an effective and convenient tool for organizing remote programming education and conducting practical training sessions.

GitHub is a platform that provides version control, collaborative project development, and code tracking for software projects. In collaborative programming education, GitHub performs the following functions:

GitHub allows students to track all changes made to the project. Through each commit, both instructor and student can review the project's history, and in case of errors, revert to previous versions. This process not only helps quickly detect and correct errors in programming but also plays an important role in maintaining project stability and managing complex practical assignments. Furthermore, version control helps students develop independent analysis and improvement skills while working with their code.

GitHub's branch and pull request mechanisms enable students to collaborate on a single project. Each student manages their work through separate branches, reviews code using pull requests, and merges changes. This process improves collaboration skills in group projects, enhances code quality, and helps prevent errors during programming. In addition, students analyze each other's work, provide constructive feedback, and learn problem-solving through practical experience.

GitHub also allows instructors to monitor and analyze students' work in real time. When necessary, the instructor can provide comments, guidance, and recommendations for optimizing the project. This simplifies and improves the accuracy of assessing not only individual tasks but also group projects. This process effectively supports the organization of practical sessions in remote learning conditions and helps develop students' independent work and collaborative skills.

Through the integration of Google Colab and GitHub platforms, the following opportunities are created for students:

1. Collaborative Code Writing: Students can link Colab documents to GitHub repositories and jointly develop projects. This simulates real-world software development experience.
2. Remote Management and Monitoring: The instructor can monitor students' code via GitHub, provide comments, and introduce revisions. This enables effective management of practical sessions even from a distance.
3. Error Minimization and Version Control: Each commit helps detect errors in the learning process, allowing students to improve and refine their work.
4. Interactive and Engaging Learning Process: By executing code, visualizing results, and solving problems collaboratively, students participate actively in the learning process.

Effective approaches for organizing remote programming sessions include:

Pair Programming and Team Projects: Students work in pairs or small groups on projects, which enhances collaboration and problem-solving skills.

Commit and Pull Request Monitoring: The instructor tracks students' work in real time, gives comments, and guides their progress.

Blended Learning: Practical exercises are completed through Google Colab, while GitHub is used for project and version management. This ensures an interactive and efficient learning process.

Feedback and Reflection: Students share their work with the instructor through GitHub and Colab, enabling fast feedback and opportunities to analyze and correct their mistakes.

ANALYSIS AND RESULTS

During the study, the effectiveness of teaching programming collaboratively using the integration of Google Colab and GitHub was examined through experiments, observational data, and analysis of student activities. A total of 87 students from three academic groups participated in the experiment. Their performance in practical programming tasks, engagement levels, code development quality, and collaboration behaviors were carefully analyzed.

The findings revealed several significant outcomes:

Development of Practical Skills: Students actively engaged in writing, executing, and debugging code in the Colab environment while using GitHub for version control. They successfully utilized commits, branching, pull requests, and code merging, demonstrating improved competence in software development practices.

Improved Collaboration Competencies: The use of pair programming, code review, and group project-based learning facilitated the development of communication, problem-solving, and teamwork skills. The analysis of GitHub commit history confirmed an increase in collaborative contributions and reduced individual (solo) coding behavior.



Effective Remote Monitoring and Management. Google Colab enabled real-time tracking, feedback, and annotation by instructors, while GitHub provided clear activity analytics for evaluating individual and group contributions. This improved the transparency, accuracy, and efficiency of remote assessment.

Increased Motivation and Engagement. Students reported higher motivation and satisfaction when working in digital collaborative environments. According to survey data, 72% of participants preferred using Colab and GitHub over traditional assignment methods.

Development of Self-assessment and Reflective Thinking. Students used GitHub statistics (commit counts, review activities, code improvement logs) to assess their own progress, which helped foster reflective thinking, responsibility, and self-regulated learning (Table 1).

Table 1. Traditional and Digital Collaborative Methods Compared: Key Indicators of Programming Education Efficiency

Indicator	Traditional Method	Colab + GitHub Integration
Level of collaboration	Low	High
Code quality	Moderate	Stable and optimized
Student activity	Passive	Active and interactive
Assessment transparency	Limited	High (data-driven)
Remote monitoring	Difficult	Highly effective

The overall findings suggest that the integration of Google Colab and GitHub significantly enhances the effectiveness of programming education, particularly in collaborative and remote learning environments. This approach contributes not only to the development of technical coding skills but also to essential 21st-century competencies such as teamwork, responsibility, problem-solving, creativity, and digital literacy.

CONCLUSIONS AND SUGGESTIONS

In conclusion, a collaborative programming environment organized based on Google Colab and GitHub integration effectively develops not only programming skills but also teamwork, critical thinking, problem-solving, and remote communication competencies among students. These cloud-based platforms enable learners to write code collaboratively in real time, analyze it, identify errors, manage versions, and receive immediate feedback from the instructor. Such a digital collaborative environment encourages students to develop self-management, a sense of responsibility, and active participation in project-based activities in modern education. Additionally, the process of managing virtual laboratories, interactive lessons, and remote practical tasks becomes more convenient, transparent, and easier to assess.

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