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## SELF ASSESSMENT WEB-BASED APPLICATION

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### ABSTRACT

Self-Assessment Web-Based App is an online test simulator to perform online self-assessment and conduct the test effectively and without wasting time checking test papers manually. The main purpose of the self-assessment application is to identify students effectively and efficiently using a high-performance machine that not only saves a lot of time, but also provides fast and accurate results. For students, paper, pen, etc. without using additional items, they can provide information wherever they want according to their convenience and time on the internet. The online self-assessment app provides students with a quick and easy way to take the exam. It also provides 100% accuracy and safety results immediately after self-testing. Users can review their results after completing the self-assessment. This helps students conduct remote self-assessment and can provide users with security and convenience, among other benefits. Self-assessment is an essential part of personal and professional development, and web-based applications make it easy for people to assess their own abilities and talents. This work focuses on exploring the development of online self-assessments using PHP as the programming language and HTML, CSS and JavaScript as the user interface. This article discusses the process used to create the practice, including the reasons for the research, research and participants, data collection methods and procedures, methods and methods for data analysis, and ethical issues. Research has shown that online self-assessment tools are useful resources for individuals to assess their skills and abilities and provide an easy-to-use, user-friendly interface.

**Keywords:** self-assessment, web-based applications, PHP, HTML, CSS and JavaScript.

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### I. INTRODUCTION

The modern computerized system was developed to overcome the shortcomings of the existing system. We took a look at GNIOT's manual evaluation process to see if it could be used. The system concept has many advantages. It is very easy for people from all over the world to sign up. The new system is more personal. It is designed so that novice users can quickly grasp all the available options. It is created quickly and easily. All important information does not need to be saved and can be easily accessed in an emergency. The proposed system has the advantage of maintaining stability in the new system. The system will be able to perform many tasks, including keeping track of each student's information over time. While this process saves time and knowledge, it will also lead to greater self-assessment and discipline. self-assessment Web-based Application can be accessed from anywhere on the Internet. The cost of using the online self-assessment method is lower than using the traditional method. The organization saves money and lots of staff by completing this online assessment. Students in this system receive the results immediately after completing the objective test. The system can process both the target and the annotation. Many companies now use automated systems to assess skills throughout the hiring process.

### II. LITERATURE REVIEW

The self-assessment process is important as it allows students to measure their own progress, identify their strengths and weaknesses, and make it necessary to improve their performance. Self-assessment has grown in popularity in education over the past few years, with many teachers using it as a tool to support student learning and increase teaching effectiveness. Web-based applications are emerging as a promising form of self-assessment, providing students with a fast and flexible way to measure their own progress and receive positive feedback. The research examines the development and use of web-based self-assessment tools in a variety of academic fields, including engineering, medicine, language learning and writing. In one study, Anggraeni et al. (2018) discussed creating a web-based application for engineering students to self-assess. Thanks to the program, students can measure their own development and identify areas that need improvement. According to the creator, the app successfully promotes self-reflection and helps students identify their strengths and

weaknesses. Ali et al. (2019) examined the design and usability of a web-based application for self-assessment of medical students. Students receive feedback on their own performance through the app, which helps them identify gaps. According to the authors, the app helped students better self-assess and improve their academic results. Ma et al. (2019) developed a web-based language discovery self-assessment tool in their study. Thanks to the program, students can measure their language knowledge levels and receive suggestions to improve their knowledge. Together, these studies show that web-based self-assessments can increase self-esteem and support student learning in a variety of learning environments. More research is needed on the effectiveness of these practices in different educational settings and in different student populations.

### III. METHODOLOGY

**Questionnaire Logic:** The web-based self-assessment application is designed to use more than one question in the questionnaire. That's why the app collects and analyzes users' digital data through self-assessments and surveys to provide personalized advice and recommendations.

**Working Environment and Participants:** The working environment for this study is the Internet, because the application is web-based and can be accessed by anyone with an Internet connection.

Participants will be individuals who voluntarily access and use a web-based self-assessment application.

**Methods and Methods of Data Collection:** Methods of data collection include the use of self-assessments and questionnaires to gather information about user behavior, strengths, weaknesses and interests. The tests and questions will be presented in a simple way and the questions will be easy to understand. The collected data will be stored in a secure database.

**Data analysis methods and procedures:** Data collected from self-assessments and surveys will be analyzed using statistical methods to identify patterns and trends in information. This analysis will be used to create personalized recommendations and recommendations for each user based on their responses.

#### Technologies used:

- PHP programming language: PHP is a popular server-side scripting language used to create dynamic websites. It is a suitable language for developing web applications thanks to its easy integration with HTML, CSS and JavaScript.
- HTML, CSS, and JavaScript: These front-end technologies are used to create user interfaces for web applications. The structure of a web page is provided by HTML, its style is determined by CSS, and its dynamic and interactive content is implemented using JavaScript.
- MySql database: MySql is a relational database management system used to store and manage data for web-based applications. It is a fast and scalable database system that provides secure data storage.
- Linguistic Processing: NLP can be used in web-based personalization applications to analyze user responses and provide personalized feedback and recommendations based on their behavior and affections. It can be used to identify patterns and trends in data and generate insights and recommendations for each user.

### IV. CONCLUSION

In conclusion, the development of a self-assessment Web -Based application on the web provides an important tool for self-knowledge and personal development. Using a variety of assessment tools and techniques, users gain insight into their strengths, weaknesses and areas for improvement. Using new technologies such as PHP, HTML, CSS, JavaScript and natural language processing techniques, developers can create great customer experiences and great self-assessments. The benefits of self-assessment are many and include self-awareness, improved decision making, personal growth and increased confidence. The self-assessment app on the web offers people a simple and easy-to-use method for self-reflection and personal growth. In addition, the use of these platforms extends to the academic and professional environment, allowing individuals to identify their strengths and weaknesses in a subject or business. However, the development and use of these platforms must take into account ethical issues such as user privacy and data security. It is important to ensure that user data is protected and that platforms are designed with users' interests in mind. Overall, the development of self-assessment applications on the web is a promising area of research that can help people in many ways. More research is needed to explore the benefits of these platforms and identify best practices for creating and using them.

## V. FUTURE SCOPE

self-assessment web-based application has significant potential for the future. A potential area for future research is the development of more complex algorithms to improve the accuracy and reliability of self-assessment. This may include a combination of machine learning and artificial intelligence used to analyze user data and provide more personalized recommendations. Another area of future research is to investigate the use of web-based self-assessment applications in various fields such as education and health. Self-assessment in education can help students identify their strengths and weaknesses and develop a personal learning plan. In healthcare, self-assessments can be used to help patients track their symptoms, monitor their progress, and make more informed decisions about their health. In addition, the integration of new technologies and features such as virtual reality and games can improve the user experience and provide more personalized reviews time and again. Additionally, the development of mobile apps and the ability to access self-test tools on the go will increase the accessibility and ease of self-testing. Overall, the future of self-assessment practices on the web is broad, and there are many opportunities for research and innovation in this area. As technology continues to advance, self-assessment tools can play an important role in enabling people to manage their personal and professional development.

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