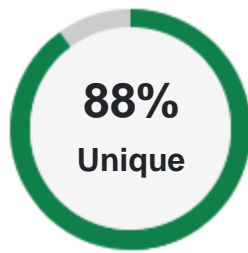
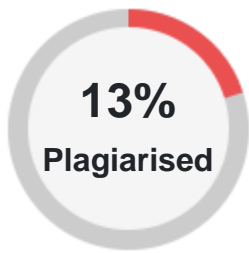


PLAGIARISM SCAN REPORT



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Development of information technology (IT) in the formal and non formal education in the field of computer or communications and information technology has put lessons web programming as a lesson that must be given to students in the field of computer science, information systems or informatics techniques. Reflecting on one of the development of information technology, the researchers found the facts that occurred on project-based learning strategies implemented in the web designing courses or Web Programming Internet Programming. Learners (lecturer) and educational institutions to students in the field of computer or informatics, which affects at the end of the competencies of students who are not expected and not in accordance with the purpose of learning web programming courses. In studying the material web programming, there are a few tools (tools used) to create or design a web. But of the many tools which can be considered a tool of manual or practical tools and automated, meaning that in designing a web student can use a technique programming language, engineering graphical user interface (GUI) of course there are advantages and disadvantages of each - each strategy project-based learning design. Actually it does not become a problem if they were to learn web programming is among the not expertise in the field of computers, but it becomes something that is not appropriate and not expected if derived from the field of computer or informatics. PHP programming has a purpose to create a website that is dynamic and distributed into a database, of course, this programming requires the design of project-based learning strategies that are fundamental to support the design and in the insertion instructions - special instructions on designing a website. How the student is able to follow the course of the advanced web programming if they did not understand basic or HTML code that should have been applied in previous courses, namely web programming. In the reality in the lecture that happened, when the lecturer instructs to create a web framework, they are using project-based learning strategies that are practical web design and automatic (in this case using Dreamweaver or Joomla). At the time lecturer questioned the reason they use project-based learning strategies and the practical design of the automatic, the students responded that they were already accustomed to implementing learning strategies based on the design project is on course web programming before. Furthermore, when professors ask students to change the design of their web framework that has been designed before, almost as a whole that no one can change one bit **web framework they had designed with project-based learning strategies and the practical design of such automated.** This is what makes the quality of graduates is very low within the competence of web designing, quality of graduates will be highly related to employment or web developers who will use the competence of graduates, however a company engaged in the field of web development (web developer), will require web programmer expertise to serve a variety of customer demand is very diverse. Researchers have observed the competence of the students through the video footage on one high school in the field of computers, researchers also conducted interviews to students who have completed a course Web Programming in order to obtain information in support of this study, the researchers did this in order to give a clear picture and empirical evidence in the field. Based on the observations and the results of these interviews, researchers found the empirical data that a web programming course graduate student in the class was not able to complete the design of a web framework that has researchers drawing on the blackboard (whiteboard). In addition, interviews that researchers do to students commented that by using a strategy based learning design projects that are practical and automated, they will be facilitated in designing **web framework such as arranging the layout, logos, and makes them faster in developing web framework.** They also say that using project-based learning strategies that are practical design and automatic, they do not know coding (program code) from web design, but this technique provides convenience and speed in the settings (setting) the design of a web. They also often use the more practical uses that are already available database such as Joomla, Wordpress, Moodle, Blogger, and others. At the core competencies of web programming course, students are expected to be able to create or design a web that is static programming language. Previous students have completed the course of algorithms and programming, as well

as the internet which are basic competencies that have been possessed by students in following the course web programming. Researchers argue, it can be said that the indicators of competence achieved if students in this course will be able to explain and implement components - components such as HTML tags, attributes, css, javascript, and other - other. Students can be said to be competent if it can design or create a web page programming language, and this will also affect the students who will follow the further course of web programming.

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