Website-based Al-Quran memorization monitoring and evaluation system design

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Abstract. This research aims to describe and analyze the system of monitoring as well as evaluating the progress of memorizing the Qur'an. Literature study, observation, and system design are used as methods in this research. With this method, we can create an accurate information system about the monitoring and evaluation of the progress in memorizing Al-Quran. As the results, this study obtained data such as the condition of the average number from Al-Quran memorization student (hafidz) and their progress. The creation of a monitoring system is very important because it can help the teacher to make decisions about what memorization methods need to be applied.

1. Introduction

In the era of globalization, the development of Information Technology (IT) is growing rapidly. According to Soegoto, IT helps companies to develop and experience a rapid growth from year to year. The manager of the company chooses to use IT to interact efficiently [1]. Optimizing the use of technology in implementing the curriculum at schools consists of three stages: planning, implementing, and analyzing. In terms of planning, teachers formulate problems and motivate the Al-Quran memorization students (hafidz), which are adjusted to the syllabus and Learning Implementation Plan. In terms of implementation, teachers are exploring the student’s involvement in seeking broad and deep information about the issue of difficulties in memorizing Al-Quran. This application enable to use technology in the implementation of student’s elaboration by dividing students into small groups. It aimed to develop students’ ability to work together and communicate on the implementation of teacher confirmation provide feedback and confirm the results of exploration and elaboration [2]. The ICT utilization model in the learning process is grouped based on how many computers are used in the learning process. The form includes the use of multimedia presentations, which then related to the use of the internet in learning that includes the use of e-mail and websites [3].
Blended learning is a formal education program in which a student learns at least in part through online delivery content and instructions with several elements student control over time, place, path, as well as speed, and at least partially in a supervised location far from home [4]. Islamic boarding schools are part of the internal structure of Islamic education in Indonesia that has been managed traditionally Islam as a way of life. As part of the internal structure of Indonesian Islamic education, the Islamic boarding school has a special character, which its function as an educational institution. Supervision is often also called control, namely holding monitoring or correction so that subordinates can carry out their duties properly according to their original [5, 6].

Every student activity in school is necessary informed to parents or guardians of students as consideration for educating a child at home. Information needed by parents or guardians of students requires a means to accommodate the delivery of information easily and quickly. In this case, system monitoring is needed on the academic information system to control student activities in a school that can rotate an entire area so that it can produce information which immediately delivered and the monitoring process can run effectively as there is communication between school parties and parents [7]. Control of measurement or improvement of the work carried out by subordinates; therefore, plans that have been made to achieve company goals can be implemented. Evaluation is the activity of gathering information about the operation of something, which then the information used to determine the right alternative in making a decision [8]. Program evaluation was a process of knowing whether the educational goals have been reached or not [9]. With the integration of computers, and especially the web into the education system, there has been a shift from centralized classroom-based education towards distributed courses that can be taken anytime and anywhere [10].

The purpose of this research is to design a system that can help simplify the process of monitoring the development of memorization of the Quran for each student. The research method used a qualitative method by doing an interview and collecting data sources obtained from literature studies such as journals and books.

2. Method

The method of this study used primary data and secondary data. Primary data obtained from an interview that conducted at one of the boarding schools in Bandung namely Aisyiyah Boarding School. This data complemented by the observation’s results from memorization activities of the Quran by students. In addition, the secondary data obtained from literature studies such as books, journals, and websites.

3. Results and Discussion

Based on observations and literature studies on the concept of monitoring and evaluation, the following are the results of the design for the Quran memorization monitoring and evaluation system. When it properly designed, the system can reduce the gap between teachers, students, and parents. Different from conventional systems, where parents have difficulty monitoring the process of memorizing the Quran from their children, the construction of this system with the monitoring feature is expected to be able to solve the existing problems, see Figure 1.
Figure 1. Use Case System

Figure 1 shows that the teacher can validate the memorization data provided by the students after they did the memorization test. The data that has been validated will later be used as a report that can be seen by their parents. Meanwhile, we can see the login page in Figure 2.

Figure 2. Display Login

Figure 2 shows the login feature, which is very important to maintain the security and confidentiality of the data on the website. Users will be distinguished based on their respective roles. In this website,
the user can see the dashboard menu which contain their memorization data. To access this website, the user have to login with their account, see Figure 3.

In Figure 3, we can see about the hafidz’s data. The data classified by level, such as junior high school and senior high school. The results of the data received every day will vary and this page also displays the hafidz’s data who need to be verified. Their data can be accessed in the student menu (Figure 4).

In Figure 4, we can see all student data and see the memorizing details on the page. Besides, there is a search feature to select specific students which sorted by name, class, and date. This system also allows users to view the online Quran as shown in Figure 5.
Figure 5 is the Quran menu, where both teachers and students can access the Quran data online. There is a search feature to facilitate in searching for surah or specific verses. This menu can help the teacher to validate the students’ progress. In addition, the details of the hafidz’s progress can be seen on the details page of students as seen in Figure 6.

Figure 6 displays a data menu for progress reports of the hafidz. From this menu, we can see the data that has been validated by the teacher. This page also shows the data of the development of memorization of each student.
4. Conclusion
This website will help schools, parents, and students in monitoring and evaluating the memorization of the Quran. This system will make it easier to monitor the progress of the memorization of each student. Therefore, in the future, every data that is processed will produce a pattern that can help decision making to choose memorization methods that are appropriate to be applied in the school environment. Thus, it helps in increasing the number of memorizations from each student.

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