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PENGEMBANGAN APLIKASI WEBSITE SATUAN KARYA PRAMUKA MITRA INOVASI DAN LITERASI TEKNOLOGI DIGITAL (SAKA MILENIAL) KOTA PEKALONGAN BERBASIS E-LEARNING, dibawah bimbingan Much. Rifqi Maulana, S.Kom., M.Kom. dan Nur Ika Royanti, S.Kom., M.Kom.

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ABSTRAK

Permasalahan dalam proses penyampaian materi pada Saka Milenial Kota Pekalongan menyebabkan permasalahan seperti keterbatasan tempat dan waktu penyampaian materi mengingat anggota Saka Milenial yang berjumlah sangat banyak, sehingga untuk melakukan penyampaian materi tatap muka sulit dilakukan. Sehingga dilakukan pengembangan website Saka Milenial Kota Pekalongan dengan menambahkan E-learning, menggunakan metode waterfall melalui tahapan Komunikasi, Perencanaan, Pemodelan, Konstruksi, dan Penyerahan Sistem. Proses pengumpulan data dilakukan melalui wawancara, observasi, kuesioner, dan studi literatur. Sedangkan rancangan sistem dibangun menggunakan Unified Modeling Language (UML) dan Lembar Kerja Tampilan (LKT). Sistem dikembangkan menggunakan PHP, CSS, JavaScript, dan framework Laravel. Hasil pengujian White Box, Black Box, dan User Acceptance Test (UAT), menunjukkan bahwa sistem dapat berjalan sesuai dengan rancangan yang telah dibangun sesuai kebutuhan spesifikasi pengguna. Pengembangan aplikasi memungkinkan penyampaian materi sesuai Krida, memberikan informasi dimanapun dan kapanpun, serta memudahkan untuk mendapatkan materi pembelajaran dengan lebih mudah tanpa harus datang secara langsung dalam penyampaian materi tatap muka dengan lebih efektif dan mampu meningkatkan mutu pendidikan. Namun aplikasi belum memiliki fitur absensi anggota, keamanan cyber security, serta otomatisasi pada proses penilaian soal ujian pilihan ganda, Syarat Kecakapan Khusus (SKK), document viewer, soal random dengan berbagai varian soal, dan akses developer.

Kata Kunci : Aplikasi, Saka Milenial, E-Learning, Web

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WEBSITE APPLICATION DEVELOPMENT OF THE PRAMUKA MITRA INNOVATION AND DIGITAL TECHNOLOGY LITERACY UNIT (SAKA MILENIAL) PEKALONGAN CITY BASED ON E-LEARNING, under guidance of Much. Rifqi Maulana, S.Kom., M.Kom. dan Nur Ika Royanti, S.Kom., M.Kom.

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ABSTRACT

Problems in the process of delivering material to Saka Millennial Pekalongan City cause problems such as limited space and time for delivering material considering that there are so many Saka Millennial members, so delivering material face to face is difficult. So the Saka Millennial Pekalongan City website was developed by adding E-learning, using the waterfall method through the stages of Communication, Planning, Modeling, Construction and System Delivery. The data collection process was carried out through interviews, observations, questionnaires and literature studies. Meanwhile, the system design was built using Unified Modeling Language (UML) and Display Worksheet (DW). The system was developed using PHP, CSS, JavaScript, and the Laravel framework. The results of the White Box, Black Box and User Acceptance Test (UAT) tests show that the system can run according to the design that has been built according to user specification requirements. Application development makes it possible to deliver material according to Krida, provides information wherever and whenever, and makes it easier to obtain learning material more easily without having to come in person to deliver face-to-face material more effectively and is able to improve the quality of education. However, the application does not yet have member attendance features, cyber security, as well as automation in the process of assessing multiple choice exam questions, Special Skill Requirements (SSR), document viewer, random questions with various question variants, and developer access.

Key Word : *Application, Saka Milenial, E-Learning, Web*