

RANCANG BANGUN *FRONT END* SISTEM INFORMASI *MONITORING* KEGIATAN PEMBELAJARAN DAN PRAKTIK KLINIS BERBASIS *WEBSITE* (STUDI KASUS: PROGRAM STUDI FISIOTERAPI UPNVJ)

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ABSTRAK

Program Studi Fisioterapi Universitas Pembangunan Nasional “Veteran” Jakarta masih menghadapi kendala dalam *monitoring* pembelajaran teori, praktikum, dan praktik klinis yang masih dilakukan secara terpisah dan manual. Kondisi tersebut menyebabkan pencatatan aktivitas, pengisian *logbook*, validasi, dokumentasi, dan rekapitulasi nilai menjadi kurang optimal. Penelitian ini bertujuan merancang dan membangun Sistem Informasi *Monitoring* Kegiatan Pembelajaran dan Praktik Klinis berbasis *website* untuk mendukung digitalisasi proses akademik pada Program Studi Fisioterapi UPNVJ. Metode pengembangan sistem yang digunakan adalah *Agile scrum* dengan tahapan *product backlog* hingga *sprint retrospective*. Sistem dikembangkan dengan tiga hak akses utama, yaitu admin, dosen, dan mahasiswa. Fitur utama sistem meliputi *monitoring* kelas teori dan praktikum, *monitoring* praktik klinis, pengisian dan validasi *logbook*, pengelolaan jadwal, pengelolaan periode praktik klinis, administrasi klinis, serta *dashboard* analitik admin. Pengujian dilakukan menggunakan *Black box testing* dan *User acceptance testing* (UAT). Hasil *Black box testing* menunjukkan seluruh 94 *test case* sesuai, sedangkan UAT memperoleh skor 360 dari 385 dengan persentase 93,51% dan termasuk kategori Sangat Baik. Sistem ini mampu mendukung *monitoring* akademik secara lebih terintegrasi, efektif, dan terdokumentasi.

Kata Kunci : Sistem Informasi, *Monitoring*, *Website*, *Agile scrum*, Fisioterapi

DESIGN AND DEVELOPMENT OF THE FRONT-END OF A WEB-BASED INFORMATION SYSTEM FOR MONITORING LEARNING ACTIVITIES AND CLINICAL PRACTICE (CASE STUDY: PHYSIOTHERAPY STUDY PROGRAM, UPNVJ)

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ABSTRACT

The Physiotherapy Study Program at Universitas Pembangunan Nasional “Veteran” Jakarta still faces challenges in monitoring theoretical learning, practical classes, and clinical practice activities, which are conducted separately and manually. This condition makes activity records, logbook submission, validation, documentation, and grade recapitulation less optimal. This study aims to design and develop a web-based Information System for Monitoring Learning Activities and Clinical Practice to support the digitalization of academic processes in the Physiotherapy Study Program of UPNVJ. The system development method used is Agile scrum, consisting stages from product backlog to sprint retrospective. The system was developed with three main access roles: administrator, lecturers, and students. Its main features include monitoring theoretical and practical classes, monitoring clinical practice, submitting and validating logbooks, managing schedules, managing clinical practice periods, clinical administration, and an administrative analytics dashboard. Testing was conducted using Black box testing and User acceptance testing (UAT). The Black box testing results showed that all 94 test cases were successful, while the UAT obtained a score of 360 out of 385, with an acceptance percentage of 93.51%, categorized as Very Good. The system supports academic monitoring in a more integrated, effective, and well-documented manner.

Keywords: *Information System, Monitoring, Website, Agile scrum, Physiotherapy*