

# Rancang bangun dan analisis performa homeschooling adaptive learning system berbasis PHP dan MySQL = Development and performance analysis of homeschooling adaptive learning system using PHP and MySQL

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Abstrak

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Skripsi ini membahas rancang bangun dan analisis performa adaptive learning untuk homeschooling tingkat Sekolah Dasar (SD) dengan menggunakan metode VAK Learning Style. Skripsi ini bertujuan untuk merancang, mengimplementasikan, dan menganalisa performa sistem homeschooling adaptive e-learning berbasis PHP dan MySQL. Pengujian performa sistem terdiri dari pengukuran kecepatan dan survei. Hasil pengukuran dengan 50 users pada JMeter menunjukkan kecepatan yang baik yaitu rata-rata akses log in 138.3ms, kuis VAK 158.36ms, pre-test 114ms, materi video 143.72ms. Hasil survei menggunakan kuesioner menunjukkan bahwa sistem masuk ke dalam grade 3 (skala 1-4), yaitu 'baik', dengan nilai rata-rata kuesioner teacher dan kuesioner student sebesar 3.34.

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**ABSTRACT**

*This thesis discusses development and performance analysis of adaptive learning for homeschooling elementary school (SD) using VAK learning style method. This thesis aims to design, implement, and analyze system performance of homeschooling adaptive e-learning based on PHP and MySQL . Performance testing is consisted of speed measurement and survey. Measurement results with 50 users on JMeter showed good speed with average access of log in 138.3ms, VAK quiz 158.36ms, pre-test 114ms, video material 143.72ms. Survey results using questionnaire showed that system goes into grade 3 (scale 1-4), which is 'good', with average value of teacher and student questionnaire at 3.34.*