

ABSTRAK

Ari Baharsyah 2019. Pengembangan Sistem Informasi Praktiker Kerja Industri Berbasis *Web Codeigniter* di SMKN 1 Sumenep, Skripsi, Program Studi Pendidikan Informatika, Program S1 Universitas Trunojoyo Madura. Pembimbing (I) Medika Risnasari, S.ST.,MT dan (II) Muchamad Arif, S.Pd., M.Pd.

Kata-kata Kunci : *praktik kerja industri, Sistem Informasi Web, Codeigniter*

Selama ini pengelolaan praktik kerja industri di SMKN 1 Sumenep belum terkelola dengan baik. Berdasarkan permasalahan tersebut, maka penelitian ini bertujuan untuk membuat sistem informasi praktik kerja industri berbasis *web Codeigniter* di SMKN 1 Sumenep serta untuk mengetahui kelayakan sistem informasi praktik kerja industri berbasis *web codeigniter* yang dikembangkan dari sisi *functional suitability, usability, reliability* dan *efficiency*.

Tujuan dari penelitian ini adalah untuk menghasilkan produk sistem informasi praktik kerja industri di SMKN 1 Sumenep dikembangkan menggunakan bahasa pemrograman *framework codeigniter* dengan model pengembangan *Waterfall* yang terdiri dari analisis kebutuhan, desain sistem, implementasi, dan pengujian sistem. Sistem memiliki 3 hak akses yang berbeda yaitu admin koordinator prakerin, siswa peserta didik dan guru pembimbing dengan fitur yang dimiliki. Dari hasil pengujian *functional suitability* diperoleh nilai sebesar 100% (sangat baik). Pada *usability* mendapatkan persentase sebesar 89,93 % dan nilai pengujian *reliability* sebesar 100% (lolos), dan pengujian *Performance Efficiency* dengan *PageSpeed score* sebesar 93 % (Grade A) *Yslow score* 74% (Grade C) dan *fully loaded time* sebesar 2.0 detik.(diterima).

ABSTRACT

Ari Baharsyah 2019. Development of Information Systems for Web-based Industrial Work Practitioners in Sumenep 1 State Vocational School, Thesis, Informatics Education Study Program, Trunojoyo Madura University S1 Program. Advisor (I) Medika Risnasari, S.ST., MT and (II) Muchamad Arif, S.Pd., M.Pd.

Key Words: Industrial work practices, Web Information Systems, Codeigniter,

So far, industrial work practices in Sumenep 1 Vocational School have not been well managed. Based on these problems, this study aims to create a Codeigniter industry-based work information system in Sumenep 1 Vocational High School and to study the feasibility of information systems web code-based industry-based work practices that are developed in terms of functional, usability, reliability and efficiency.

The purpose of this study was to produce information systems work practices in Sumenep 1 Vocational High School developed using a framework-based programming language with a Waterfall development model consisting of needs analysis, system design, implementation, and system testing. The system has 3 different access rights, namely admin coordinator, student and mentor teacher with the features they have. From the results of the functional suitability test obtain a value of 100% (very good). Usability gets a percentage of 89.93% and the value of reliability testing is 100% (passes), and Performance Efficiency testing with PageSpeed score of 93% (Grade A) Yslow score 74% (Grade C) and full time of 2.0 seconds. (be accepted).