

Naharotul Istiqomah. 2022. *PENGEMBANGAN LKPD PEMROGRAMAN BERORIENTASI OBJEK BERBASIS APLIKASI DENGAN PROJECT BASED LEARNING SEBAGAI SUMBER BELAJAR SISWA SMK*. Skripsi, Program Studi Pendidikan Informatika, Fakultas Ilmu Pendidikan, Universitas Trunojoyo Madura. Dosen Pembimbing: Puji Rahayu Ningsih, S.Pd., M.Pd

ABSTRAK

Penelitian ini bertujuan untuk menghasilkan bahan ajar mandiri berupa LKPD berbasis aplikasi mata pelajaran Pemrograman Berorientasi Objek dengan *project based learning*. Materi yang diangkat dalam LKPD ini adalah materi *Model View Controller* (MVC) PHP dengan subjek penelitian peserta didik kelas XI RPL di SMK Negeri 2 Bangkalan. Jenis penelitian ini adalah penelitian pengembangan atau *Research and Development* (R&D) dengan menggunakan model pengembangan 4D yang terdiri dari 4 tahap: *define*, *design*, *develop* dan *disseminate*. Objek penelitian pada penelitian ini adalah LKPD berbasis aplikasi materi MVC PHP dengan *project based learning*. Hasil dan analisis data penelitian menunjukkan hasil rata-rata validasi ahli materi sebesar 88,09% dengan kategori “sangat valid”, hasil rata-rata validasi ahli media sebesar 89% dengan kategori “sangat valid” dan hasil rata-rata validasi angket lembar respon siswa sebesar 89% dengan kategori “sangat valid”. Sedangkan hasil uji coba pengembangan, yaitu uji coba kelompok kecil sebanyak 6 responden diperoleh hasil sebesar 74,58% dengan kategori “praktis” dan uji coba kelompok besar sebanyak 22 responden diperoleh hasil sebesar 85,15% dengan kategori “sangat praktis”. Sehingga LKPD berbasis aplikasi yang dikembangkan layak digunakan sebagai salah satu bahan ajar yang dapat digunakan dalam kegiatan pembelajaran pada materi MVC PHP.

Kata Kunci: LKPD, Aplikasi, Pemrograman Berorientasi Objek, *Model View Controller* (MVC), *Project Based Learning*, Sumber Belajar

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ABSTRACT

This study aims to produce independent teaching materials in the form of LKPD based on the application of object-oriented programming subjects with project based learning. The material raised in this LKPD is PHP Model View Controller (MVC) with the research subject of class XI RPL students at SMK Negeri 2 Bangkalan. This type of research is Research and Development (R&D) using a 4D development model consisting of 4 stages: define, design, develop and disseminate. The object of research in this research is LKPD based on the MVC PHP material application with project based learning. The results and analysis of research data showed the average results of material expert validation were 88.09% in the "very valid" category, the average results of media expert validation were 89% in the "very valid" category and the average results of the response sheet questionnaire validation students by 89% with the category "very valid". While the results of development trials, namely small group trials of 6 respondents, obtained results of 74.58% in the "practical" category and large group trials of 22 respondents obtained results of 85.15% in the "very practical" category. So that the application-based worksheets developed are suitable for use as one of the teaching materials that can be used in learning activities on MVC PHP material.

Keywords: *LKPD, Applications, Object Oriented Programming, Model View Controller (MVC), Project Based Learning, Learning Resources*