

ABSTRACT

Information technology has been used in many fields, one of which is in the field of education, State Vocational High School 1 Purbalingga is a school that utilizes information technology in the form of a website which is used to provide information about the school, but on the State Vocational High School 1 Purbalingga website there are several problems, namely that several menus are not available. required, lack of information conveyed, and the appearance of the website interface is less attractive. So it is necessary to develop and redesign the interface of the State Vocational High School 1 Purbalingga website so that it can help users to get the information they are looking for. The methods used in developing and redesigning the State Vocational High School 1 Purbalingga website interface are Extreme programming (XP) and User Centered Design (UCD), the Extreme programming (XP) method can deal with rapid changes in needs, so it can be adapted to the needs of State Vocational High School 1 Purbalingga. The User Centered Design (UCD) method carries out discussions so that users get their needs for the system, discussions are carried out directly with users so that system development follows what users need. Next, usability testing of the old website was carried out on 106 respondents with the System Usability Scale (SUS) question which received a final score of 48.4 with a scale grade of F and Worst indicators. After the development was carried out, an evaluation was carried out on the new website with the same questions and respondents and received a score of 75.3 with a grade scale of B and a Good indicator. The conclusion from the increase in results is that the development and redesign carried out were successful.

Keywords: *Extreme programming, Redesign, System usability scale (SUS), User Centered Design (UCD), Website*