

ABSTRAK

Mesin *Hotpress* merupakan alat untuk membantu dalam pengerjaan penekanan dengan suhu yang panas, mesin ini telah dikembangkan beberapa tahun yang lalu sehingga sampai saat ini telah sampai pada generasi ke tiga atau yang disebut dengan mesin *Hotpress* G3. Pengembangan mesin *Hotpress* G3 difokuskan dengan sistem penekanan pada mesin menggunakan bantuan *air pneumatic*. Permasalahan yang terdapat pada mesin *Hotpress* G3 pada saat ini yaitu mengenai *usability* yang dapat menyebabkan penggunaanya merasa tidak puas karena *user interface* mesin *Hotpress* G3 tidak efektif dan efisien untuk digunakan. Penelitian ini bertujuan untuk mengetahui tingkat *usability* mesin *Hotpress* G3 serta merancangan *user interface* berdasarkan *evaluasi usability*. Metode yang digunakan yaitu Kuesioner *Nielsen's Attributes of Usability* (NAU) yang berfungsi untuk mengetahui tingkat *usability* mesin dan dengan metode pendukung yaitu *Restrospective Think Aloud* (RTA) yang berfungsi untuk mengetahui permasalahan yang terdapat pada pengoperasian mesin *Hotpress* G3. Hasil yang didapat dari penelitian ini yaitu mesin *Hotpress* G3 belum memenuhi seluruh aspek *usability* menurut Nielsen model. Perancangan *user interface* yang direkomendasikan untuk dapat meningkatkan *usability* mesin *Hotpress* G3 yaitu pada bagian tombol kontrol akan diperbaiki dengan menambahkan informasi keterangan sesuai fungsi, melakukan penambahan sensor untuk mengetahui saklar pemanas sudah menyala atau belum serta pemberian informasi terkait suhu maksimum dengan menambahkan *alarm* pada bagian kotak mesin.

Kata kunci : Mesin *hotpress* G3, Evaluasi *usability*, *User interface*, *Nielsen's Attributes of Usability* (NAU), *Restrospective Think Aloud* (RTA).

ABSTRACT

The Hotpress machine is a tool to assist in pressing with hot temperatures, this machine has been developed several years ago so that until now it has reached the third generation or what is called the Hotpress G3 engine. The development of the Hotpress G3 engine is focused on a pressure system on the engine using air pneumatic assistance. The current problem with the Hotpress G3 machine is regarding usability which can cause users to feel dissatisfied because the Hotpress G3 machine's user interface is not effective and efficient to use. This study aims to determine the level of usability of the Hot Press G3 machine and to design a user interface based on usability evaluation. The method used is the Nielsen's Attributes of Usability Questionnaire (NAU) which functions to determine the usability level of the machine and with the supporting method, namely Restrospective Think Aloud (RTA) which functions to find out the problems found in the operation of the Hotpress G3 machine. The results obtained from this study are that the Hotpress G3 engine does not meet all aspects of usability according to the Nielsen model. The recommended user interface design can increase the usability of the Hotpress G3 machine, namely the control button section will be repaired by adding information according to the function, adding sensors to find out whether the heating switch is on or not and providing information related to the maximum temperature by adding an alarm to the engine box.

Keywords: G3 hotpress machine, Usability Evaluation, User interface, Nielsen's Attributes of Usability (NAU), Retrospective Think Aloud (RTA).

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