SUMMARY OF AUTOMATIC ARTICLES WITH THE TF-IDF ALGORITHM FOR SPECIAL HEALTH INFORMATION ELDERLY

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**RESEARCH HIGHLIGHTS**

Elderly is someone whose age ranges from 60-74 years, at that age a person's health tends to decline. Various programs have been provided by the Indonesian government, such as providing information, giving brochures, and making announcements on health care websites. But this counseling is not optimal because the elderly tend to be lazy to read this because the eyes have begun to look far apart than that the elderly eye health has begun to diminish. So that the health information provided by the health office can be optimal we try to make a model that is used to summarize an article so that the article is easily understood by the elderly. To summarize the article, this study uses the TF-IDF algorithm (1-3). TF-IDF An algorithm used to summarize sentences so that it is easier to understand and understand By using the TF-IDF algorithm it is expected that the elderly will be easier to understand health articles (4, 5).

**RESEARCH OBJECTIVES**

Summarizing articles so that they are easily understood by parents, because the health of the elderly has begun to decline so that the elderly have difficulty reading (6).

**MATERIALS AND METHODS**

**Planning**

In this study, it is used to prepare everything related to the summary system and the needs of the elderly, here is a list of questions that will be given to the elderly. This stage is the most difficult stage, because to take data on the elderly requires extra patience.

**Implementation**

This stage is the stage of developing applications, the application will be developed using the PHP and MySQL programming languages. To process images into text used Vision API.

**Observation**

The observation of this application is done with the first step called beta tester and the second step commonly referred to as alpha terster. This is especially important, given that this application is directly related to the elderly, if any error of the observer will directly report to the party and the system will be rectified immediately.

**Reflection**

Reflection is used to evaluate performance from start to finish. The purpose of this stage is to refine the system, so when it comes to the elderly there is no problem, besides that it can also be used to create a better system.

**RESULTS**

By utilizing TF-IDF, texts that are initially lengthy and not well understood by the elderly can be easily understood by the elderly (7). This study was tested on 5 elderly people, from the results of elderly trials still felt difficult. Because they experience visual impairment. 3 Elderly recommends the summarized text converted to sound.

**FINDINGS**

The TF-IDF algorithm is very effective for summarizing text from health information. by using this system, it is expected that the elderly will be easier to understand health information.
Acknowledgement
The TF-IDF algorithm is very effective for summarizing text from health information. The problem faced in this study is to make a good system flow so that it is easy to use by the elderly. This application has been tested to 5 elderly people, 3 elderly recommend output not text, but sound. This is because the elderly's vision has begun to blur.

References