Website-Based Online Work Training Application Design Using Unified Modeling Language

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Article Info	ABSTRACT (10 PT)
	Community demographic data based on work shows that there is a lot of work done by the community. This proves that the community's potential in the aspect of community resources is very good, but in the data it can also be seen that some people do not have a job, or are what we usually call "unemployed." Unemployment rates will increase if proper evaluation is not carried out and will have a negative impact on community resources that are already good. So that unexpected things do not happen, we should dig up community data and manage existing community resources so that we can reduce unemployment so that it has a positive impact on increasing people's income. The purpose of this research is to build a job training application that can be used to collect data on skills and improve the skills possessed by the community, while at the same time knowing the concept of improving digital community resource management that can be done and providing analysis of the application of online information communication. Job training applications are designed using the Unified Modeling Language (UML) and by utilizing Massive Open Online Course (MOOC) technology, sophisticated computer simulation technology with massive open online course techniques, and fast-adapting computer engineering education models.

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1. INTRODUCTION

In Law No. 6 of 2014 concerning Villages, it is stated that Villages are villages and traditional villages, or what are referred to by other names, hereinafter referred to as "Villages," are legal community units that have territorial boundaries that are authorized to regulate and manage government affairs, local community interests based on community initiatives, original rights proposals, and/or traditional rights that are recognized and respected within the system of government of the Unitary State of the Republic of Indonesia. According to R. Bintarto (1977), rural areas are a geographical embodiment caused by physiographic, social, economic, political, and cultural elements that exist there in relation to and reciprocal influence with other areas.

Administratively, a village is an area consisting of one or more sub-villages or hamlets that are combined so that it becomes an area that stands alone and has the right to manage its own household (autonomy). Today, there is a lot of talk about how to maximize the potential of the village, but there are still many of us who don't really understand what that means. A village in everyday life is often referred to as a "village," which is an area that is far from the hustle and bustle of the city and is inhabited by a group of people who make a large part of their livelihood in agriculture. [1], [2]: "Villages are human settlements that are located outside the city, and the inhabitants have an agrarian spirit." Villages with various physical and social characteristics show unity among their elements. The community has a myriad of potentials; this potential is spread over several aspects, such as aspects of natural resources such as agricultural products and tourism, as well as visible aspects of community resources. Community resources are very diverse, as can be seen in village demographic data in the field of work as shown in Figure 1 below.

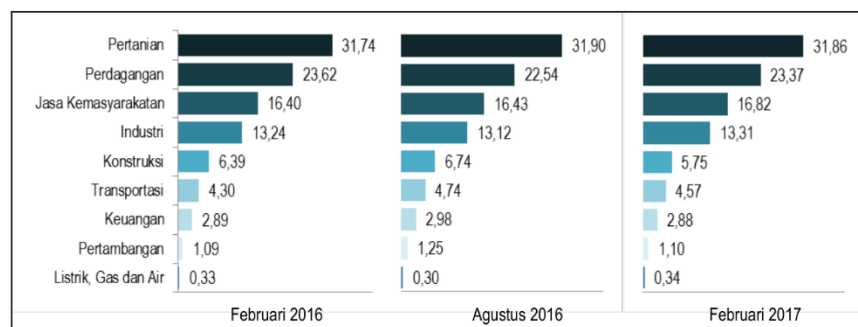Percentage of working population by main field of employment in 2016-2017

Figure 1. community demographic data

2. RESEARCH METHOD

By using a problem analysis approach, researchers conduct research that focuses on a series of field studies, situations, or individual and collective activities that develop over time in a particular context. It is also equipped with literature studies that support problem analysis. Problem analysis is useful in situations when very little is known about a particular topic or phenomenon. In general, the purpose of problem analysis is to develop solutions that are relevant to the conditions that occur in the field, although it is often used to expand or modify existing problems. This study uses a type of qualitative research. Qualitative research aims to gain a general understanding of social reality from the perspective of participants through descriptive data. Understanding is not predetermined but is obtained after conducting an analysis of the social reality that is the focus of the research, and then a conclusion is drawn in the form of a general understanding of the facts. Qualitative research focuses more on observation and natural settings. Researchers act as observers. He only makes categories of behavior, observes symptoms, and records them in his observation book. Qualitative research uses theory as a reference or guideline in conducting research, not testing theory as in quantitative research.
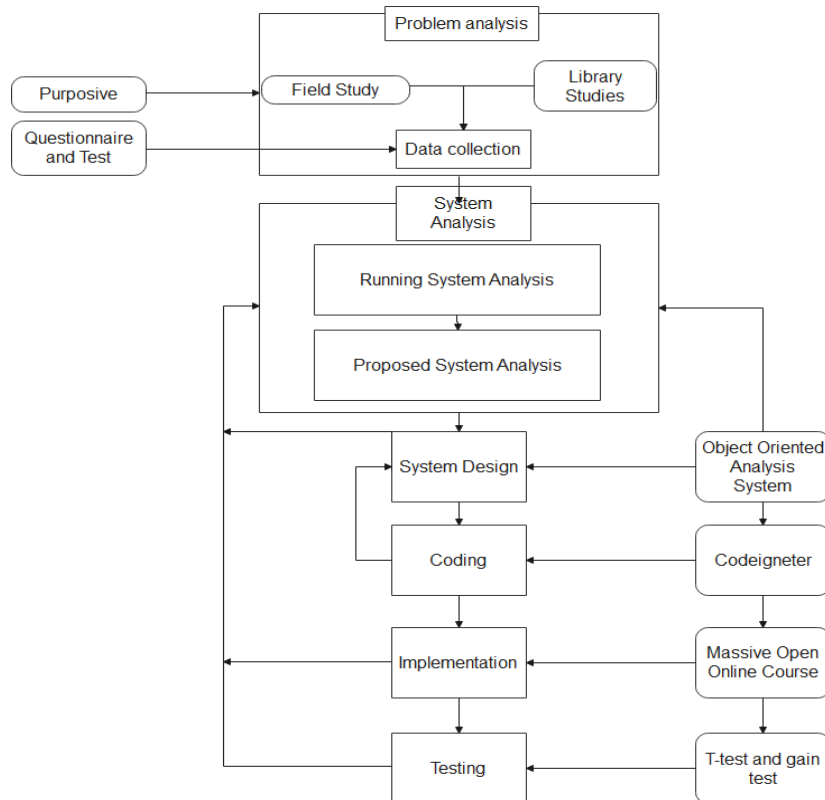
2.1 research procedure

Figure 2. research procedure

3.   RESULTS AND DISCUSSIONS

This study aims to build a job training application that can be used to collect data on the skills possessed by the community while at the same time knowing the concept of increasing skills with digital community resource management that can be carried out and providing an analysis of the application of information communication online. Sampling was carried out by means of purposive data collection techniques using questionnaires and tests. Job training applications that use Massive Open Online Course (MOOC) technology to handle complexity problems with sophisticated computer simulation technology, massive open online course techniques, and fast-adapting computer engineering education models. Implement job training applications in online information exchanges to support and improve skills and the management of community resources. Well-managed community resources can reduce unemployment and increase people's income. After being built and implemented, the application will be tested according to its development function. Application testing is carried out using the t-test and gain test techniques, where the t-test is carried out to test the hypothesis and the gain test is to find out the significant results of the community's level of expertise. Building a job training application based on a massive open online course Implement job training

applications to reduce unemployment and increase income with proper management of community resources. The results of implementing the Job Training application can improve people's skills, which will have an impact on reducing unemployment and increasing people's income.

4.   CONCLUSION

Sampling utilizing focused data gathering methods like tests and questionnaires Massive Open Online Course (MOOC) technology is used to create job training programs that use advanced computer simulation technology, massive open online course methodologies, and quickly adapting computer engineering education models to solve complexity concerns. To promote and enhance skills and community resource management, integrate job training applications into online information sharing. Community resources that are well managed can boost revenue and lower unemployment. The application will be tested in accordance with its development function following construction and implementation. Applications for job training that can be used to gather information on the community's skills and comprehend the idea of improving skills with the implementation and analysis of digital community resource management.

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