

Information Literacy Through the Lubuklinggau Regional Fairy Tale Application Shaping the Character of Students

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Abstract. The development of modern technology greatly influences changes in several fields, including education. Due to the development of technology and information, it is possible to combine information systems with regional languages and cultures. Mobile technology is also growing rapidly, this can be seen from the number of applications or websites that run on mobile devices. The purpose of this study is to describe regional culture through literacy in regional fairy tales mobile application in order to shape the character of students in Lubuklinggau City. This media can be accessed via smartphone or tablet. Variety of media that can be used This application uses local culture. Using the waterfall method (system engineering, analysis, design, coding, testing, and maintenance). This application can produce cultural values that are almost abandoned by the younger generation or students.

Keywords: applications, fairy tales, literacy, characters

1 Introduction

The globalization era has imperceptible impacts on all sectors, one of which is education. The rapid changes in the era lead to a significant increase in the environmental community, which are driven by transculturation and the development of information and communication technology and the boom of information and knowledge [1]. One of the current technological developments in education is information literacy which will make it easier for someone to learn independently wherever they are and interact with various information. [2] In addition, the information system is acceptable for all learning, basically the digital generation is accustomed to using the internet and digital devices. According to the survey, the literacy rate in reading books is still lacking and that the generation with an average of those born around 2000 and the following years are able to spend more than five hours on online activities a day [3]. Thus, the education system needs to consider a number of aspects that are domains in 21st century education. One of the very important domains in 21st century education is literacy skills. There are various kinds of literacy, including information literacy. Information literacy according to the American Library Association [4] is a set of individual abilities to recognize information when it is needed and have the ability to find, evaluate and use that information effectively [5].

Information literacy is developed in an application designed to develop students' interest in reading. Application is a software unit created to serve the needs of several activities. If you want to develop your own application program, then to write the application program, you need a programming language, namely language software, which can take the form of an assembler, compiler or interpreter. So language software is the language and the program written is the application program [6].

The definition of character or character is an inner trait that affects all thoughts, behavior, character, and character possessed by humans or other living beings. The definition of character is a description of behavior that is carried out by highlighting values (true-false, good-bad) implicitly or explicitly. Character is different from personality which does not involve values at all. The definition of character is a person's characteristics, styles, traits, or characteristics that come from the formation or forging obtained from the surrounding environment [7]. The process of character building through the application of regional fairy tales makes students able to understand the meaning of regional language and culture that is benefited from modern technological developments so that students do not feel bored. Because the application of regional fairy tales is very popular from children to the elderly, so it can help in conveying messages, namely characters based on local languages and cultures.

The formation of the character of students through application media is considered feasible to be used as a medium in character building, which is based on regional culture and can be used as a means of entertainment that can be an alternative means of learning languages, so that learning can be done at any time because it can be easily used. . Character consists of several building elements including:

- a. Attitude is one part of the character that is the basis or reflection of a person's character, so it can be said that a person's attitude is in harmony with the character he has;
- b. Emotion is a dynamic symptom that is felt by humans caused by a very strong feeling effect;
- c. Trust is a component that is obtained from socio-psychological factors which then affect a person's character. This belief becomes a builder in human nature and character;
- d. Habits and will greatly affect the formation of one's character. Habits reflect the actions and behavior or character of a person; e) self-conception is an act of how we place ourselves [4].

2 Results and Finding

2.1 System Development

In the process of developing the Lubuklinggau regional fairy tale application, Android-based is needed for application coding purposes, one of which is a method for system development so that the use of tools and techniques to develop a more structured system and so that at the end

of system development it can meet user needs, on time, easily. easy to use, easy to understand and easy to maintain. Therefore, the author uses the waterfall method to develop a system to be more structured and well organized.

2.1.1 Waterfall Method

The definition of the waterfall method is a software development methodology that proposes an approach to systematic and sequential software that starts at the level of system progress throughout analysis, design, code, testing and maintenance [8].

2.1.2 Waterfall Model

The flow of the waterfall model can be described by the diagram below:

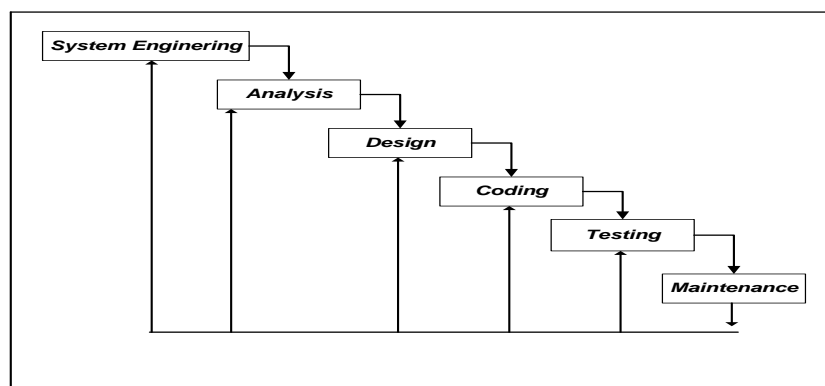


Fig. 1. Waterfall Diagram

- a. System Engineering
Is part of the largest system in working on a project, starting with determining the various requirements of all the elements needed by the system and allocating them into the formation of software.
- b. Analysis
Is the stage where systems engineering analyzes the things needed in the implementation of software development projects.
- c. Design
The translation stage of the needs or analyzed data into a form that is easily understood by the user or user.
- d. coding
The stage of data translation or problem solving that has been designed for in a specified computer programming language.
- e. Testing
The testing phase of the software built.
- f. Maintenance

The last stage where a software that has been completed can undergo changes or additions according to user requests.

2.2 Activity Program

Activity Diagram Application of Regional Fairy tales Lubuklinggau Activity Diagram is part of the description of the system functionally describes the logical processes or functions that are implemented by the program code. Activity Diagram models the events that occur in a Use Case and is used for modeling the dynamic aspects of the system. Here is the Activity Diagram contained in the Android-based Lubuklinggau regional fairy tale application

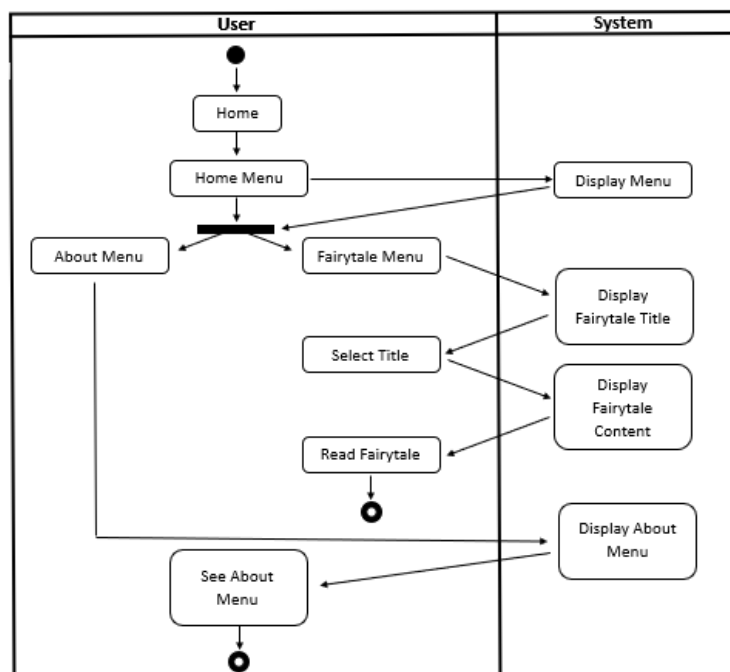


Fig. 2. Activity Diagram of the Lubuklinggau Regional Fairy Tale Application

From the system design, an android-based Lubuklinggau regional fairy tale application is produced, in this application there is a start page as an application opener, and the main menu page which consists of three menu options, namely the regional fairy tale menu, the about menu and the exit menu, the regional fairy tale menu is a collection of from the local tales of Lubuklinggau, the about menu page is a page that answers questions related to the game, while the exit menu is for exiting the regional fairy tale application. The Lubuklinggau regional fairy tale application that was built can be an alternative information media to convey Lubuklinggau regional fairy tales that are read by users and easy to use anywhere. The media application of the Lubuklinggau regional fairy tale game can further raise the local culture of Lubuklinggau City so that students can see the local wisdom of the area.

- a. The media application for the Lubuklinggau fairy tale game provides questions related to fairy tales, as a form of students' appreciation of fairy tales and students' understanding of the content of fairy tales, besides students being able to see local local wisdom.
- b. The application can be run on all other mobile devices such as Iphone and blackberry.

2.3 Fairytale Application

The system design resulted in an android-based Lubuklinggau regional fairy tale application, in this application there is a start page as an application opener, and the main menu page which consists of three menu options, namely the regional fairy tale menu, the about menu and the exit menu, the regional fairy tale menu is a collection of fairy tales. fairy tales from the Lubuklinggau area, the about menu page is the application developer page, while the exit menu is to exit the regional fairy tale application.

2.3.1 Homepage

The start page is the first page displayed by the application and if the user clicks or tabs it will go to the menu page, for more details it can be seen in Figure 1 Home Page



Fig. 3. Homepage

2.3.2 Menu Page

On the menu page, all the menus in the application are displayed, for more details can be seen in the picture, if the user presses the fairy tale menu it will go to the fairy tale menu, if the user presses the about menu the system will display the abaout page, and if the Exit menu is executed it will exit the application.



Fig. 4. Menu Page

2.3.3 Fairy Tale Menu Page

The fairy tale menu page is a page that displays all the list of fairy tales in the fairy tale application in the Lubuklinggau area, if one of the fairy tale lists is clicked it will go to the fairy tale detail page.



Fig. 5. Fairy Tale Menu Page

2.3.4 Fairy Tale Detail Menu Page

This page is displaying the details of the story resulting from the execution of the user when selecting one of the stories that you want to display.



Fig. 6. Fairy Tale Detail Menu Page

On the fairy tale detail page, two buttons are provided, namely the back button and the next button, if the user presses the back button it will return to the previous menu, and if the user presses the next button, it will go to the next fairy tale page, as shown in figure 6.



Fig. 7. Next Menu Page

2.3.5 Menu Page About

This page is a page where the user can view data from the application developer.



Fig. 8. Menu Page About

2.3.6 Menu Exit

This page will be displayed if the user executes the *exit menu*.



Fig. 9. Exit Menu

3 Development of Information Literacy

The development of technology and information literacy is very influential on the character development of students, because local culture should not be left behind by technological developments. So that with the planning of developing and maintaining culture, as well as communication tools in the family and community communication within the region itself, as well as Indonesian as the national language as a means of communication between regions.

Regional culture by changing the form of cultural values that have been almost forgotten by the younger generation in the Lubuklinggau City environment. So that awareness arises in efforts to make a change in people's lives that have deviated from old traditions, which are basically local wisdom. The revitalization of regional languages and cultures that are brought back in the form of fairy tale applications in Indonesian and regional culture, namely the Lubuklinggau regional story area or original stories originating from Lubuklinggau. After going through the development process and seeing from testing the Lubuklinggau regional fairy tale application based on Android, the following conclusions can be drawn:

- a. The information literacy of the Lubuklinggau regional fairy tale application that was built can be an alternative information literacy media to convey the Lubuklinggau regional fairy tales by being read by users and easy to use anywhere.
- b. The information literacy of the Lubuklinggau regional fairy tale application can further promote the local tales of Lubuklinggau City so that it is more known by the wider community.
- c. Information literacy can improve the character of students based on exemplary stories from characters in fairy tales.

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