

Extreme Programming Study Method Case Study on Designing of Accounting Term Dictionary

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Abstract— *Extreme Programming (XP) is a software development method that is simple and includes one of the agile methods pioneered by Kent Beck, Ron Jeffries, and Ward Cunningham. The main purpose of the Extreme Programming method is to reduce the cost of software changes, in traditional systems development methodologies, system requirements specified in the first phase of the project development and it is not changed. This means that the cost to the needs of the change that occurs in the later stages will be very expensive. The Results of this study are to determine how the weaknesses and strengths of the XP method of making an application accounting terms dictionary on a Smartphone.*

Keywords— *XP, Accounting term, smartphone*

I. INTRODUCTION

Agile Methods are developed for the traditional methodology, there are many things that make the development process can't be managed properly as the user desires. This methodology has been pretty much grown, they are:

1. *Extreme Programming (XP)*
2. *Scrum Methodology*
3. *Crystal Family*
4. *Dynamic Systems Development Method (DSDM)*
5. *Adaptive Software Development (ASD)*
6. *Feature Driven Development (FDD)*

Extreme Programming (XP) is a software development method that is simple and includes one of the agile methods pioneered by Kent Beck, Ron Jeffries, and Ward Cunningham. XP is one of the agile methods are the most widely used and became a very famous approach. The goals of XP is a team formed between small to medium sized course, not necessary to use a large team. It is intended to deal with unclear requirements and the change of requirements very quickly [1]

The main goal of XP is for a down the cost of a change Software.

In traditional systems development methodologies, system requirements specified in the early stages of project development and these permanent. This means that the cost of a change in requirements that happened to next stage will be an expensive. XP is directed for a lowering the cost of a change by introducing the basic values, principles and practical. By applying an XP, the development of a system must be more flexible to changes in

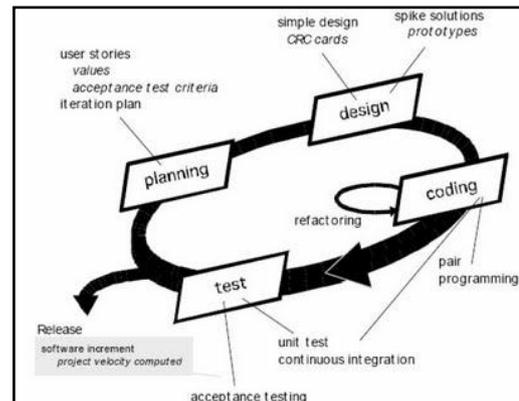


Fig1. Extreme Programming Process

II. MATERIALS AND METHODS

2.1 Literature Review

2.1.1 Extreme Programming (XP)

According to the Pressman [4] Extreme Programming processes are:

1. *Planning*

This phase is started with *listening* is a collection activity requirements (needs) of a system that allows users of the technical team to understand the business context for a XP system and get a clear picture of the main features, functionality, and desired output. Listening leads to the creation of a collection of stories (usually also known as user stories) that describe the features, functionality, and the desired output for the system want to build.

2. *Design*

XP encourages the use of CRC cards (Class-Responsibility-Collaborator), where the CRC cards are used to identifying and organizing object-oriented classes. CRC card is only to design a system that is generated as part of the XP process.

3. *Coding*

The key Concepts for coding activity is a pair programming. XP recommends two persons to work together to create a code in a story. This concept provides a mechanism for solving a problem in real

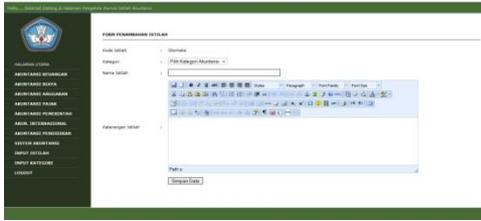


Fig 6. Input Page of Accounting Term



Fig 7. The main menu and Accounting Term



Fig 8. Accounting Term Detail page

3. Coding

After designing method done, then it will made the coding to make the program. Coding made with the PHP programming language.

```

<!DOCTYPE html>
<html>
<head>
<meta charset="utf-8">
<meta name="viewport"
content="width=device-width,
initialscale=1">
<title>Kamus Istilah Akuntansi</title>
<link rel="stylesheet"
href="themes/kamus.min.css" />
<link rel="stylesheet"
href="http://code.jquery.com/mobile/1.3.2/jquery.mobile.structure-1.3.2.min.css" />
<script
src="http://code.jquery.com/jquery-

```

```

1.9.1.min.js"></script>
<script
src="http://code.jquery.com/mobile/1.3.2/jquery.mobile-1.3.2.min.js"></script>
</head>
<body>
<div data-role="page" data-theme="a">
<div data-role="header" data-position="inline">
<a href="index.php" data-icon="home" data-iconpos="notext" data-direction="reverse">Home</a>
<a href="#" data-icon="search job vacancy" data-iconpos="notext" data-rel="dialog" data-transition="fade">Cari Semua Kategori</a>
<h1>Kategori Istilah</h1>
</div>
<div data-role="content" data-theme="a">
<ul data-role="listview">
<li><a data-ajax='false' href="#" data-transition="pop">Akuntansi Keuangan</a></li>
<li><a data-ajax='false' href="#" data-transition="pop">Akuntansi Biaya</a></li>
<li><a data-ajax='false' href="#" data-transition="pop">Akuntansi Anggaran</a></li>
<li><a data-ajax='false' href="#" data-transition="pop">Akuntansi Pajak</a></li>
<li><a data-ajax='false' href="#" data-transition="pop">Akuntansi Pemerintah</a></li>
<li><a data-ajax='false' href="#" data-transition="pop">Akuntansi Internasional</a></li>
<li><a data-ajax='false' href="#" data-transition="pop">Akuntansi Pendidikan</a></li>
<li><a data-ajax='false' href="#" data-transition="pop">Sistem Akuntansi</a></li>
<li><a data-ajax='false' href="#" data-transition="pop">Tentang Kami</a></li>
</ul>
</div>
<section><footer data-

```

```

role="footer"><h2>Copyright © 2013
Created By <a
href="http://blog.binadarma.ac.id/usman"
>Usman</a></h2>
</footer>
</section>
</div>
</body>
</html>

```

III. CONCLUSIONS

The results of this research that XP has some strengths and weaknesses, the Additional advantages of XP Establish good communication with clients, Lowering the cost of development, Improving Communication and the nature of each respect among developers, the Additional weaknesses while XP cannot make a detailed code at the beginning.

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4. Testing

Software testing is meant to test all the elements that made the software is already in accordance with the expected. Software testing in this study using Black Box testing method. Black box testing is a fundamental aspect of software testing without considering internal logic structure of software. This method is used to find out whether the software is working properly. Here is one of the results of tests performed using the black box testing:

1. Login testing

TABLE 1
PENGUJIAN LOGIN

Input	Expected	observation	conclusion
Data (Correct)			
Username holistic Password correct	Showing page of users based on access	Users based on the access page displayed	Accepted
Data (incorrect)			
Username holistic Password incorrect	Displays messages username or password incorrect	Username or password incorrect message displayed	Accepted

2. Data input Testing Category

TABLE 2
DATA INPUT TESTING CATEGORY

Input	Expected	observation	conclusion
Data (Benar)			
Input data	The data can be saved into the database	The data storage can be done	Accepted
Update data	Data can be converted into the database	The data changes can be performed	Accepted
Delete Data	The data can be deleted from the database	The Elimination of data can be done	Accepted