

Research on XP approach using The Personal Software Process Practice

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Abstract: In this paper, we propose the PSP Practice Support System that we realize record-keeping support of flame work performing data acquisition of process flow offered in PSP in other Android carrying end with a software development environment using based on the Multiagent technologies. It is thought that we can tie that we come true with an Android mobile terminal when we perform the convenience that we don't affect to a software development environment and reference of a document if dated consciousness of flow. So, We can be conscious of process flow in every environment with development by this system can transmit programming to specific human among many software processes using Agent's technology. Applying the proposed method to a personal process remove task, a flexible programming for quality of software.

Keywords: Personal Software Process, Software Engineering, Agile Development, eXtreme Programming

I. INTRODUCTION

Software architecture has emerged as an important sub discipline of software engineering [1]. PSP support system is built using this. Moreover, We think that the data inputted can acquire software development process by sorting out using a user action record table [2].

In this paper, the Personal Software Process (PSP) practice support system that we realize record-keeping support of flame work performing data acquisition of process flow offered in PSP in other Android carrying end with a software development environment using based on the Multiagent technologies [3]. It is thought that we can tie that we come true with an Android mobile terminal when we perform the convenience that we don't affect to a software development environment and reference of a document if dated consciousness of flow. So, We can be conscious of process flow in every environment with development by this system can transmit programming to specific human among many software processes using Agent's technology. Intelligent agents and multiagent systems are one of the most important emerging technologies in computer science today [4]. Multiagent systems deal with coordinating intelligent behavior among a collection of autonomous agents. Emphasis is placed on how the agents coordinate their knowledge, goals, skills, and plans jointly to take action or to solve problems. Constructing the multiagent systems is difficult [5,6].

Since interruption time is essentially random, ignoring these times would add a large random error into the time data and reduce estimating accuracy. In this we propose that the PSP Practice who realize record-keeping support an flame-work performing data acquisition of the process flow offered in other Android end user with a software development environment. It is thought that reference of a document if dated consciousness of flow when perform the convenience don't affect to a software development environment with an Adroid mobile terminal. Because, we can be conscious of process flow in every environment with development by this system can transmit programming to specific human among many software processes using Agent's technology. The system is also synthesized to do parallel and cooperative proposing internally. Applying the proposed method to a personal process remove task, a flexible programming for quality of software.

II. Android Personal Digital Assistant

The PSP data has record on the framework prescribed by the aforementioned individual specific exercise in support system. Therefore, Record time has been take many form to conducts based on the PSP base-line framework. Support System should be record processes by different development, quality control and large forms. So, it will be not very worried about an activity recording a process form that dealt in an experienced developer of the PSP and working-out of software for a long time. However, it increases that kept record of a form about becomes vague of that still pressed by eve-

ryday various works. In order to perform accurate record, their needs for support system automate and reduce the work measurement process.

Its content is missing records, which it does not exactly the plan. Therefore, support systems is to record all the work, record and share information, and record information with other differences between them, what do you consider that characterize the individual.

This will be an important resource to support the ability to provide the information necessary to improve the process. However, to be commissioned to present the contents of any process improvement is not help from the Android devices. The recorded information itself, are working will consider process to improvement. An important aspect of this device, by allowing all times and there is early detection of leaks of personal records.

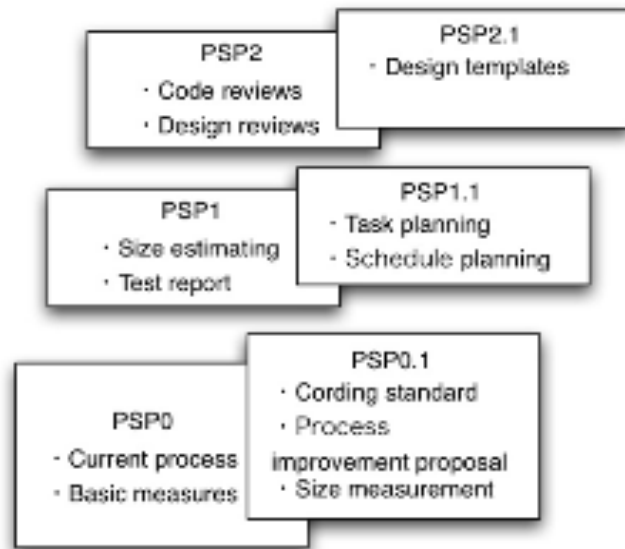


Fig.1. PSP Process Evolution

III. Personal Software Process and XP

The PSP is a self-improvement process that helps you to control, manage, and improve the way you work. It is a structured framework of forms, guidelines, and procedures for developing software [2]. Properly used, the PSP provides the data you need to make and meet commitments, and it makes the routine elements of your job more predictable and efficient.

The PSP's sole purpose is to help you improve your software engineering skills. It is a powerful tool that you can use in many ways. Rather than using one approach for every job, you need an array of tools and methods and the practiced skills to use them properly. The PSP provides the data and analysis techniques you

need to determine which technologies and methods work best for you. PSP write several program using the evolving process shown Figure 1.

The PSP is not a magical answer to all of your software engineering problems, but it can help you identify where and how you can improve. However, you must make the improvements yourself. PSP0 and PSP0.1 hierarchy include introduces process discipline and measurement. PSP1 and PSP1.1 hierarchy include introduces estimating and planning. PSP2 and PSP2.1 hierarchy include Introduces quality management and design. Team Software Process exists over the PSP hierarchies.

So, This any measure record to support agent consider with using this Agent Learner expanded of PSP support. A person engaging in a person who experienced PSP and software development for many years is not very worried about a form record-keeping work.

Record keeping is vague, and what is performed of a person pressed by a work still increases. Necessity to perform automatically is important in a soldier, remission of an activity and process assay to record an activity precisely.

The first Extreme Programming project was started March 6, 1996[7]. Extreme Programming is one of several popular Agile Processes. It has already been proven to be very successful at many companies of all different sizes and industries worldwide.

Extreme Programming is successful because it stresses customer satisfaction. Instead of delivering everything you could possibly want on some date far in the future this process delivers the software you need as you need it. Extreme Programming empowers your developers to confidently respond to changing customer requirements, even late in the life cycle.

Extreme Programming emphasizes teamwork. Managers, customers, and developers are all equal partners in a collaborative team. eXtreme Programming implements a simple, yet effective environment enabling teams to become highly productive. The team self-organizes around the problem to solve it as efficiently as possible. This case study used to Pair Programming only. Because, This XP Method improvement of Software Process Time for The PSP0.

IV. Research tool Digital Assistant for Android mobile tools at Software Estimate Efficiency

In this section, explain assistant of Software Estimate used to the Android Digital Assistant based on inter-

nal Agent Learner for Intelligent Agent. Intelligent Agent techniques give connects in other Intelligent Agent record data on PSP. Hence, that Intelligent Agent put the Agent Learner on necessary thoughts in Multiagent [8].

In the PSP, engineers use the time recording log to measure the time spent in each process phase. In this log, they note the time they started working on a task, the time when they stopped the task, and any interruption time. For example, an interruption would be a phone call, a brief break, or someone interrupting to ask a question. By tracking time precisely, engineers track the effort actually spent on the project tasks. Since interruption time is essentially random, ignoring these times would add a large random error into the time data and reduce estimating accuracy.

Since the time it takes to develop a product is largely determined by the size of that product, when using the PSP, engineers first estimate the sizes of the products they plan to develop. Then, when they are done, they measure the sizes of the products they produced. This provides the engineers with the size data they need to make accurate size estimates. However, for these data to be useful, the size measure must correlate with the development time for the product. While a line of code (LOC) is the principal PSP size measure, any size measure can be used that provides a reasonable correlation between development time and product size. It should also permit automated measurement of actual product size.

As for the Android terminal unit, it process take possible for archiving to convey the information that it is necessary in the PSP activity through a screen to an internal intelligent agent. Information to convey has memorized the time that activity content in form archiving was really performed.

When "Record" button be push the Android terminal unit Screen, in order of Figure 2, Figure 3, Figure 4, and activity changes screen design. Because a screen design changes, button of a new context format appears. Agent express current activity contents sequentially whether it has been work-in-process hereby whether it is activity record keeping. An optional category have take the problems number, work-in-process practicing now. This work-in-process consists of all seven items that the Agent put activity break in as well as six items established in PSP. About activity cutoff, I step over a day and can record an activity.

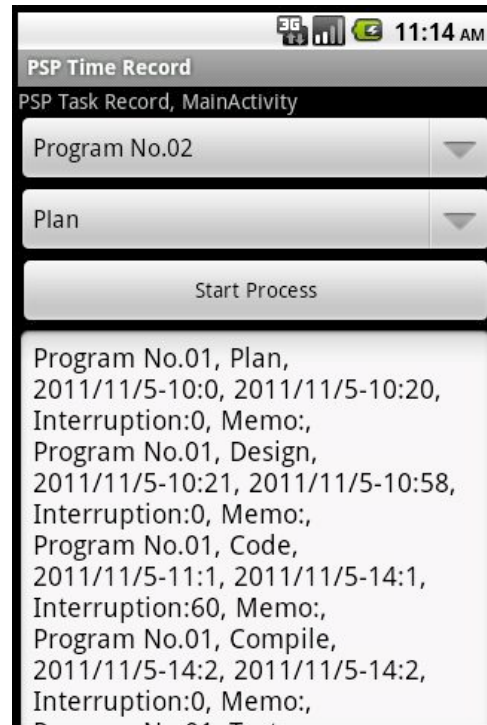


Fig.2. The Android Terminal Unit for first phase on the Agent Interface

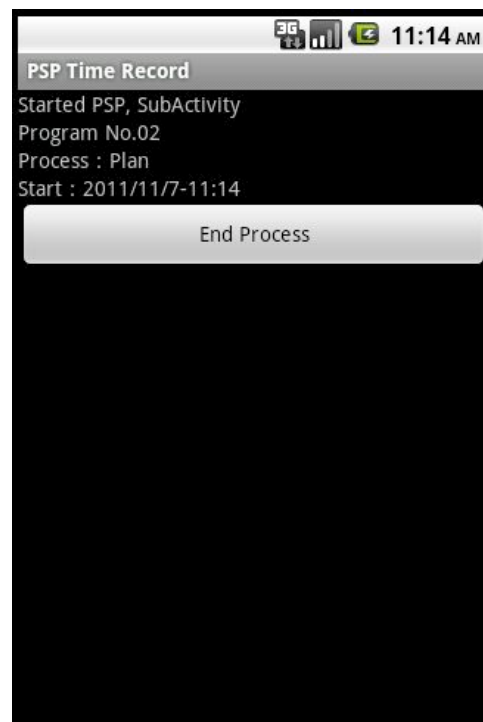


Fig.3. The Android Terminal Unit for second phase on the Agent Interface

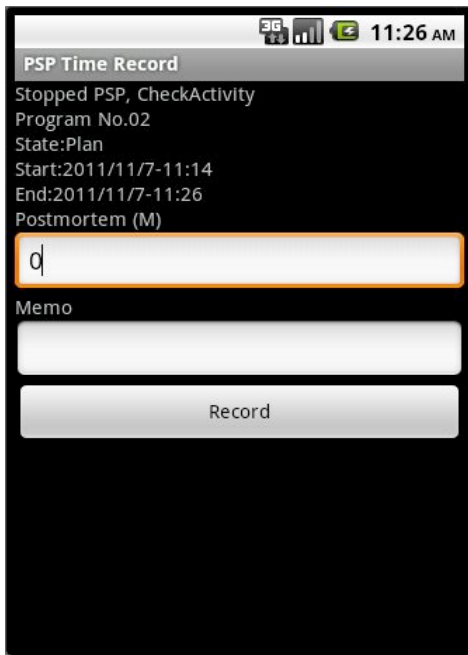


Fig.4. The Android Terminal Unit for third phase on the Agent Interface

Actually, I am recordable like Figure 3 when the Agent stepped over a day. A work to perform in this interface, work-in-process is recorded by the operation that it is easy only pushing it in button sequentially.

VI. CONCLUSION

In this research we were analyses PSP Practice Support System used to of flame work performing data acquisition of process flow offered in PSP by the Android terminal unit Interface. We were able to evidence user software working process data. We create agent learner data in real time work data beside with agent running and wrote PSP Practice process type and problem number.

For future works, we will consider methods used on record time data for agent learner in machine learning and user experience. It is necessary for us to consider only a clock through this system about the cause that a description error to be generated by human error.

Future versions of PSP Practice Support System based on Android Terminal Unit record of error type code or fact process from error message of compiler and executer to test pattern data. But, This model will show at the system in a more natural, unscripted scenario, involving multiple parts in addition to other forms of process and error type phenomenon. Now, This system Interface cannot edit by the record data that evidence

and work in a process task on Agent Learning data. We consider to support system by what cannot edit record data activity archiving be able to offer the usability as evidence to test pattern data. But, This model will show at the system in a more natural, unscripted scenario, involving multiple parts in addition to other forms of process and error type phenomenon. XP Method aim to role-playing Navigators into the time record and work process think support. But, This control working Interface support Navigator only to be Android Digital Assistant device processing space. Next approach product in to this dual work support system used on the navigation techniques.

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