**SOFTWER ENGINERRING**

**ASSIGNMENT**

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1. ***Research paper***

***Conference:***<https://2020.msrconf.org/program/program-msr-2020>

***Title:*** Software-related Slack Chats with Disentangled Conversations

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**SUMMARY**

This paper is about Softwarerelated Questions and answers chat conversations on slack. Slack contains many important information for good programming , software maintenance and it could help to learning developer behavior , interaction of rational feature request , building chatbots and virtual assistant. We can say slack is a popular chat platform hosting active channel on software development technologies.

With the chat without analyzing the code we can learn the functionality of code indication of an error in the code API functionality cause of the error presented earlier and good programming practice so consider will information can be learn from just one conversation.

Slack chat online service can start from Download slack chat transcripts from JSON to XML, anonymize user identities in chat transcripts disentangle chat conversation and then start software related slack chat.

39K slack conversations

12k participants

400k utterances

Build mining based software engineering tools

Improve developer learning resources

Understand developer behavior

Build new communication tool.

1. ***Research paper***

***Conference:*** <https://2020.icse-conferences.org/program/program-icse-2020>

***Title*: An Empirical Study of Method Chaining in Java**

***Author Name:*** Tomoki Nakamaru, Tomomasa Matsunaga, Tetsuro Yamazaki, Soramichi Akiyama, Shigeru Chiba

**Mon 29 Jun 2020 10:48 - 10:54 at MSR:Zoom - Programming Languages & Models Chair(s): Dimitris Kolovos**

**SUMMARY**

This paper is about method chaining. Method chaining is chain of methods where each method returns an object allowing the calls to be chained together in a single statement without requiring variable to store the intermediate results . For the most of the methods presenting inside the Stringbuffer , Stringbuilder and StringClass the return types are the same type only.

**As:**

Sb.m1().m2().m3()….

StringBuilder sb=new StringBuilder();

Sb.append(kavita).append(“solution”).reverse().insert().delete()

In method chaining all methods will be executed from left to right.

From method chaining it reduces the code,

Increases readability,

Builder pattern will be using method chaining.

**Types of method chaining**

=>Multiple methods are joining or chaining and after the all objects coming out of the each stage of the method chaining will be the same class.

=>Multiple methods are called on the different types of object.

1. *Research paper*

*Title***:**Understanding What Software Engineers Are Working on

*AutherName*:Ralf Lämmel, Alvin Kerber, and LianePraza

*Conference***:** This paper appears in Proceedings of 28th

International Conference on Program Comprehension, ICPC

2020.

Summary

This paper is about the work-item prediction challenge, predicting what a software engineers (a developer, an incident responder, a production engineer) working around ,he might would not know what diff that is what system in engineers working on. as it applies to software engineering workflows in software intensive organizations.

It is challenging because we may not easily understand each action on the timeline of a developer, so when developer publish a diff or may be review a ‘diff’ that is obvious a person working on this and that diff but person said a query DB or read some documentations then it is not clear that what diff it could be about and this is what we could **dark matter** it also called in between situation, some alert form of ‘automatic documentation’ is needed such as suboptimal performance of an important system component. challenges faces by developer :i) engineers rely on a multitude (perhaps hundreds) of loosely integrated tools; ii) engineers engage in concurrent and relatively long running workflows; iii) infrastructure (such as logging) is not fully aware of work items; iv) engineering processes (e.g., for incident response) are not explicitly modeled; v) too many tools used by engineers on a given day for many of facebook employees . So these tools come and go they are not integrated they have not perfect tool so we don’t easily know what are these tools; vi) Too many work items, at a time. An extended related work discussion which connects the work-item prediction challenge to research in the areas of program comprehension, mining software repositories, process mining, and machine learning. This discussion documents the need for and the potential of leveraging, advancing, and combining existing techniques to tackle the work-item prediction challenge more efficiently in practice.

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