

VPCS Backend Theory And Its Application

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***Outline:** due to the development of the software acquisition and definition in what we use the code theory always in messy and unforeseeable status. A new method of the coding style like VPCS that will show in this topic paper, feel free to resonate with my imagination of the portrait—VPCS(Vision, Process, Controller, Sets) theory, fun yet? Not only this paper will gaze a big point how we show the constructions of the VPCS, you guys also sure to get lots of idyllic landscapes of the coding sections. While you got lots of the illness codes at the so messy fungus projects, I guess at this paper out where you are finding anxiously. Let's catch more opportunity about how does the VPCS working, executing and scheduling in our software project and make the software fast, fast and safe! lets go, So the key words as below:*

Quantum Sets, Concurrent Consumer, Vision, Scheduler, Threads, Surf.

Introductions

Let see the verbal keys, the first time you ..., okay, get any sense? Sure, this paper is not talking about the human careers, truly about SOFTWARE, as a human, if you got my points, yes, cool! Make any sense? Let's see the landscape as below figure 1-1.

From the ordinary software development architecture, always like a factory model, for instance, controller, transaction delegate, web service, job bean, data DAO, like that of traditional backend or front end coding style, but, compare now the seamless clients services system, those model more and more not suitable for us for the project application, at least in the light level, multitasks, satellite boots projects system, if we choice the factory model, you will feel so heavy. But the big conflict problem is where the factory model was used in all and all bazaar companies. Even any CTO who I met before often complaining about the reference room like that “we need one sever for database system, one more for cache system, one more for front end, one more, for backend, one more....”after that what do you think? My lord...

Finding a new method of how to integrate the sets about the micro satellites service in the same sever, and make them small, lightly and faster for the commence service, now become a fatal topic. Which can be a pretty warm-up for where I make an explanation for VPCS. The VPCS model, only includes four aspects. Vision, Process, Controller, Sets, and those factors makes an interactions in the sleeper containers. Let talk about the definition of the sleepers. From the software engineering domain, the sleepers are more like an identified thread person. Who can make a lot of fantasy dream in a Hall, what means a dream? Dream is a requirement what the consumer really needs to finished. But here the dream can be separated out more tasks, those tasks will register the ID in the Pillow, so that the sleeper hugs the pillow then goes into the hall and make a dream. Got an idea? Cool. So what does the sleeper does in a hall? The answer is to make all kinds of the dream. For example if we want to build the web service to get rest call, and return the JSON feedbacks, we only need to do like the way: Firth, build rest call path in the controller; Second: register the call requirements as a dream; Third, build the sets of the dream in the pillow, Fourth hire a sleeper to hug this pillow, and go to the hall to make a dream process. At last but least: return the dream goods. Any sense? Cool! For this unique instance, you will know that the sleeper was more like a socket, and the hall more like a thread pool, the pillows like the single vision instance, and the sets like a vision storage, the

controller and the process those two sections is a common way of the factory model. The steps landscape of the sleeper who makes a dream as bellow figure 1-2.

Focus on this landscape, mostly different to the MVC: Model View Controller, MVP: Model View Presenter or other architectures we know before. but is very easy to understand after you read for a while. Too simple. Sleeper makes dreams come true, hall container sleepers, skivvy make up the hall, pillow clear and wake up the sleepers who often lost in finding the way in the dream. Got fun here, but I would hear more argue voice details of my VPCS, desktop App once said: VPCS is good in the concurrent WEB project, but not suitable for the desktop applications. Ok, follow this question, let make a new landscape based on desktop application as below figure 1-3.

From this picture, we know all of the software can be fast and safe while using VPCS, because it is already separated out the big system into backend and frontend two parts. and VPCS keeps safe and fast in the backend section. Compare to the MVC, VPCS will get more cautious and details, and compare to MVP, VPCS also will get more safe and high efficiency. Those factors are why I will make inauguration here.

Questions

How does skivvy doing? please see the figure 1-4 the hall building need a singer instance like a home keeper but here is a hall keeper, any else, this person is very important for keeping the VPCS safe, because all of the skivvies will be managed by him. You will see, the memory check, JVM garbage collection, disk cleaning, thread status management, deadlock alarm, security protocol all and all in one at here. Mostly like a static class in the VPCS system. If we need to know every thing about skivvy's work status, ok just call the hall keeper.

How does sleeper doing? Make a dream? Cool, you shoot!, in the VPCS system, it doesn't have the definition of the process, everything like subsets. Immutable or unlined, hall keeper get request from visionary and hire the sleeper, who is likes a thread, get requirement, add those sets in pillow, hugs pillow then go to hall to make a dream, after that then return the callback to hall keeper what they did. Fun yet?

What does the sets meaning? Sets, is a format of the data where appearing in the VPCS system. For the static prototype, it used like a concurrent hash table, and list which can be copy base on writing format, the single instance, it always runs in the static function or be liking an interface implementation because need safe at the same time, so that compare to the factory model, it is too simple and without annotation. Everything becomes easy in this environment.

References

you will find the true source of the WEB link: https://github.com/yaoguangu Luo/DETA_DataBase this project is build based on VPCS 1.0 theory. From this project, sleeper is more likes a socket thread, Hall is more like a sleepers pool, the vision more like a http call, and dream is more like a database system management. For any question please check the reference links as bellows:

<https://github.com/yaoguangu Luo/NeroParser>

https://github.com/yaoguangu Luo/DETA_CACHE

https://github.com/yaoguangu Luo/DETA_BackEnd

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Figures

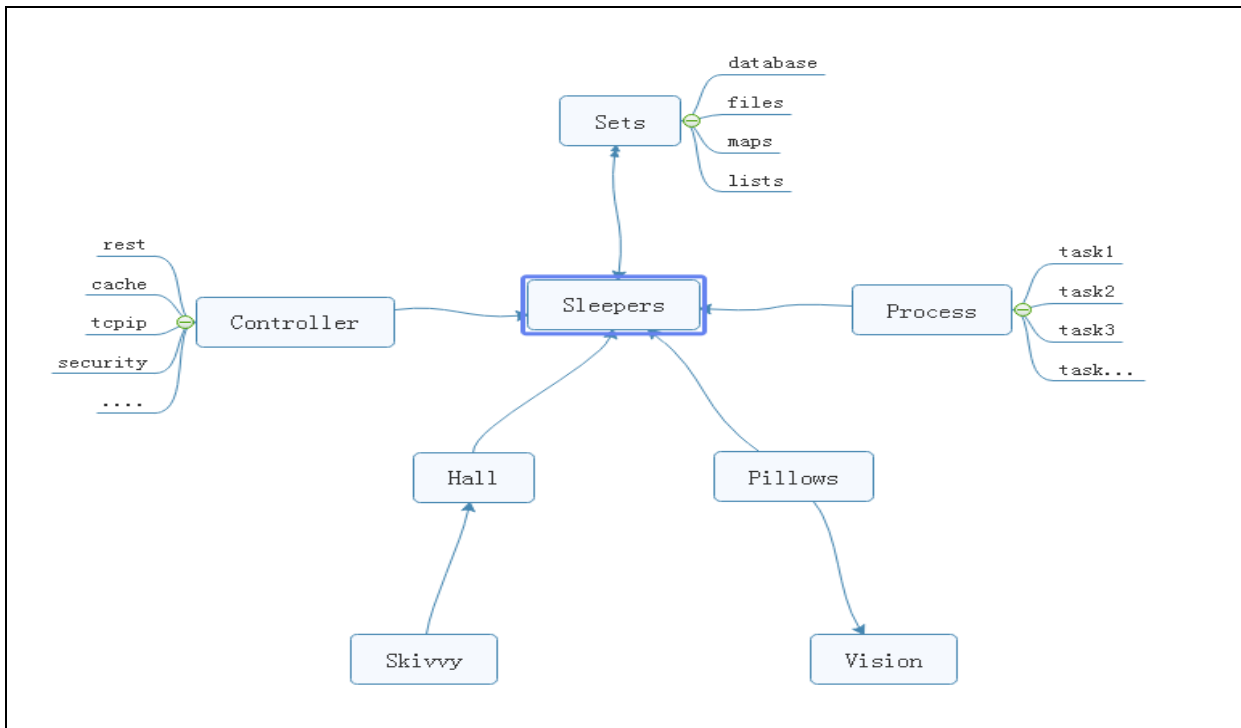


Figure 1-1

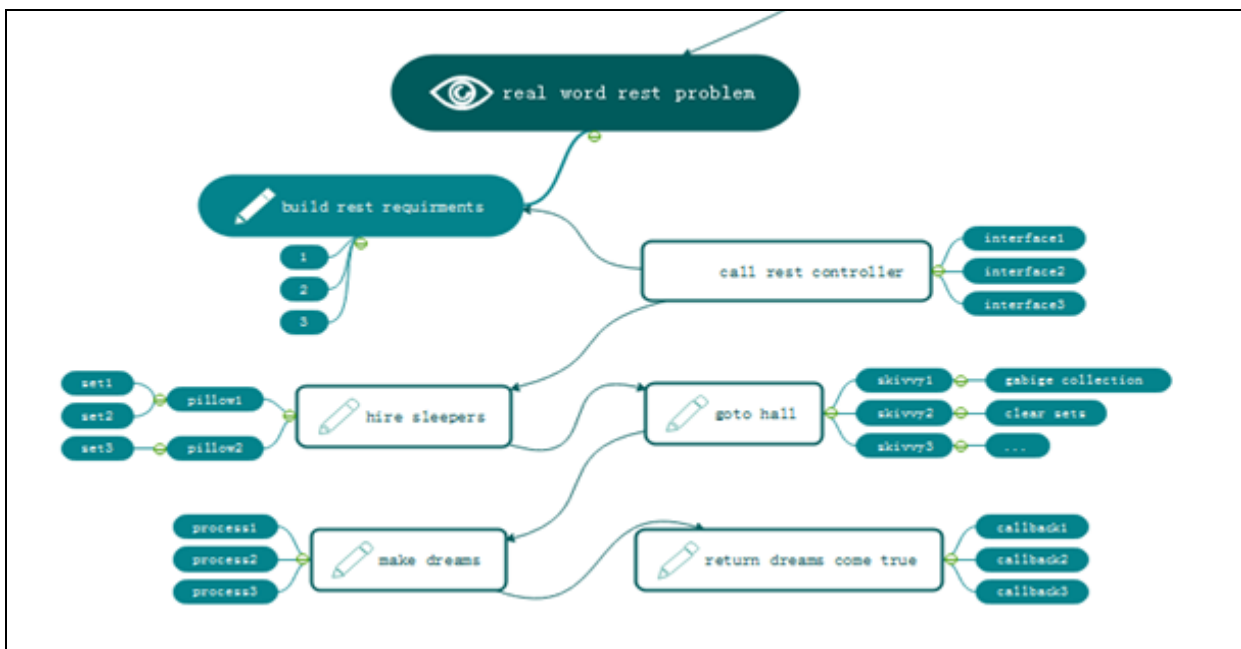


Figure 1-2

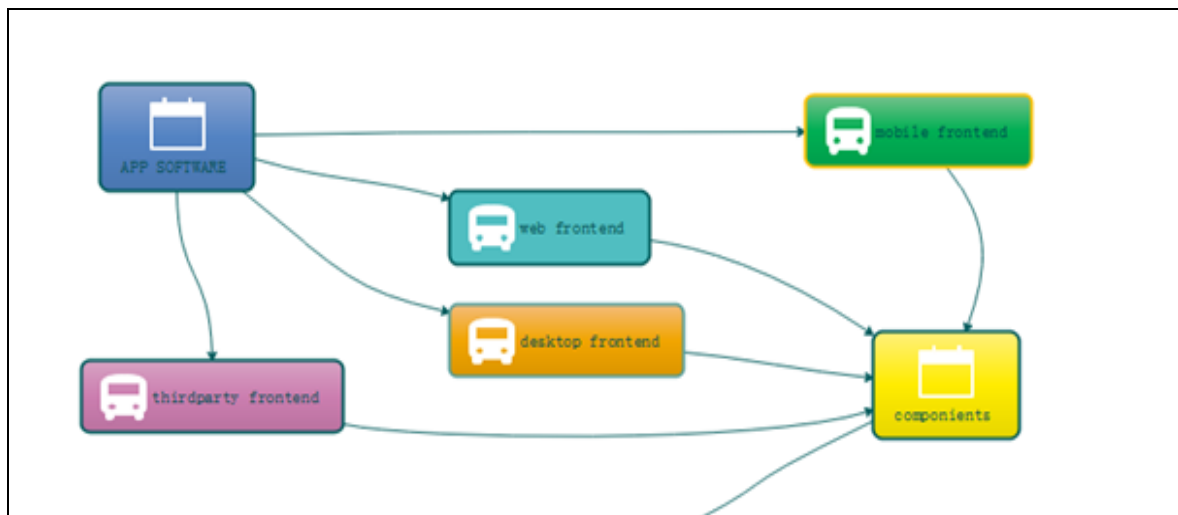


Figure 1-3

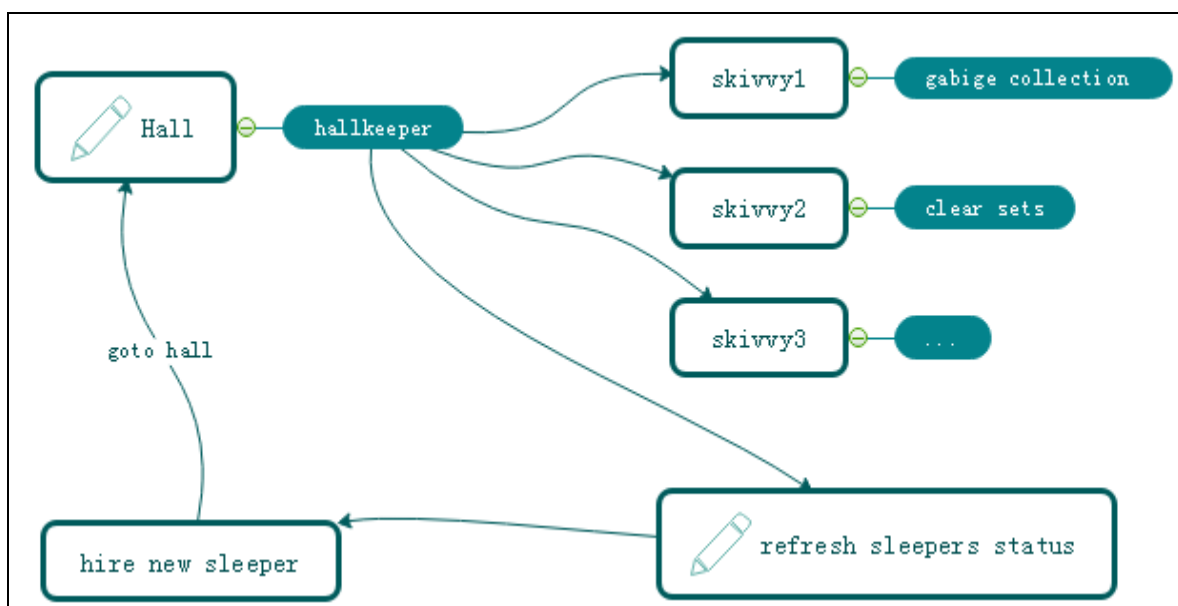


Figure 1-4