**P 4**

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【ask】

Ok, let's start now, um, first of all, I want to know your basic information. Can you tell us about your professional background and development experience? Probably a few years of development experience ?

【answer】

Oh, I am now a 21-level student majoring in X X, and then my undergraduate degree is also in the direction of computer, that is, then the third year is 20 years is the first stage of the internship is in X XXX , doing back-end development, the main work here is The development of some background modules of the live broadcast in XX Music, and then this year, April 21, is also in X X , which is also the background development . This is mainly the development of some components of the underlying database system of X X. The main thing is this .

【ask】

That means you have about three years of development experience ?

【answer】

That's right, but in fact, because I am a computer major, I have done some projects in school, that is, coursework, projects, etc. , that can also be counted, well , it may be counted as four or five years .

【ask】

That is our research. We are targeting Chinese developers. We want to know some characteristics of Chinese developers. So, I just want to ask, what do you think about the Chinese programmer group and other majors? , What are the characteristics of people in other occupations? What are the differences ?

【answer】

This question , programmers , is first of all a relatively popular profession, so their salaries may be relatively high. Oh, but the overtime is also heavy, so the hourly rate may not be very high. Another is that programmers actually do the work of implementing a concept according to the needs of product managers or other arrangements .

【ask】

For example, in terms of personality, as well as the way of thinking, the way of thinking and some learning methods, what are the differences in learning habits ?

【answer】

Because programmers work in front of the computer most of the time every day, maybe they are, of course not all, that is, they may be more introverted or have some of the more straightforward thinking of the kind of science and engineering men, just Either there is a joke saying what it is, but you should have heard the joke about buying watermelons , which is to ask programmers to buy vegetables. If they see apples, they buy two . If they see watermelons, they buy two. The person only bought two watermelons when he came back. The reason was because he saw an apple. It was almost like a program. A line had a fixed logic, and it was a kind of thinking that went down .

【ask】

Well, what about learning then ? Do you have your own unique study habits ?

【answer】

Because the development of language and technology is relatively fast, as a programmer, you need to learn new knowledge frequently, so the general programmer's learning ability may be slightly stronger, otherwise it may be in technology. It will be easy to be eliminated or something .

【ask】

Well, do you tend to study by yourself?

【answer】

Well, yes, including when I was in school, probably most of the things that teachers teach are more conceptual and systematic, or some older things, so the idea is to change from a software-oriented student to A programmer still needs a lot of self-study .

【ask】

I understand, um, then just briefly talk about some of your development experience, oh, first of all, please recall what you have learned recently , not necessarily recently, just say what new technologies and new tools you have learned Or software, just give some examples, and then talk about how your entire learning process is like, that is, you have learned this software, this tool or this framework from the beginning of hearing about this software, and then learn It is then used for development, to complete some of your development work projects, what is the whole process like?

【answer】

Um. Take the most recent internship, at XX, they are doing database storage, and then it is equivalent to me being a mentor after I go in. They let me look at some first, one is an open source database library of Google , called LevelDB , It is open source on GitHub, because XX is on the internship side, and their entire bottom layer is based on this thing, so as a new intern, I need to learn this thing first. Then the first way to learn is to look at his document, which has those quick start and some detailed instructions, and then the instructor asked me to write a few small demos according to them , which can be equivalent to quick start I know what this software does , what interfaces it has, and then , um, how is it used , and after writing a few demos , I just read it, that is, I wrote some very small demos, and then the next step should be What the teacher gave me is some code written by their regular employees before, and how this component is used in their products . It is equivalent to watching and trying such operations at the beginning, and then slowly picking them up. Some small requirements, and then gradually use the more and more in-depth functions of this component, and then go , and then become more familiar with this.

【ask】

Well, in this learning process, you actually used this related material, right ? Documentation, um, that is, can you be specific about which documentation is used?

【answer】

main documentation is that because its software is open source , it has documentation itself, that is, the official documentation is one. However, because the official documentation is in English, we need to get started as soon as possible, so we will still search some Chinese. One is the Chinese translation corresponding to the document, and some are Chinese blogs , which are either official documents or third-party documents, but the third-party documents that are written more systematically are like this . One is the official document, the other is a third-party comparative system document , and there are some blog materials .

【ask】

this third-party document written by a specialized agency? Or that I am personally interested, and then I translate it and write it .

【answer】

That kind of relatively systematic, I think there should be , and it can be regarded as this kind of open source enthusiast. It is organized spontaneously. It should not be an individual, but there may not be many people involved .

【ask】

But there is still a team dedicated to it, so do you think documentation is important for development work?

【answer】

This must be very important, because you encounter a new software, a new module or a new framework, well, it must be a document to let you know how to use this thing . Because when you encounter a new thing, you must first use it at the beginning, and then , it is impossible to go deep into the software to see how the software does it and its code, so the documentation must be very important. .

【ask】

It is the function of the document. First, let you have a general understanding of this software without knowing it from the beginning, right ? Then after you are familiar with it, will you still use the documentation in specific development work, such as in the middle stage of development?

【answer】

This is also possible, because I think the two parts of the document are two more important functions. One is that there may be a quick start link in other documents , so that you can quickly know, such as software , what are the basics and which are The basic module composition, and then what is his most basic usage, the other is that he may be , that is, the main part of the document , which will be introduced in a very long chapter later, the detailed description of each component in the software Function, then implementation method , and these parameters of the interface, what a mess, this is when we are already familiar with this software and develop it later, because we are not the developers of this open source software, or we definitely can’t , we won’t treat it Every detail in it is very familiar. It is strange to find this place in a certain place, or if you encounter any bug, you will go there and go to a certain chapter of that document with a purpose.

【ask】

OK, I have a general understanding, which means that you also have a certain understanding of the structure of the document, and you should have seen more documents .

【answer】

For me, the documents with better quality will have this kind of quick start.

【ask】

Hmm, can you give an example of the documentation you've looked at?

【answer】

Oh this. There seems to be quite a lot. Think about this example for a while . Well, it may be better to use open source software made by large foreign companies like Google and Facebook. For example, one is the MongoDB I just mentioned, and Facebook's RocksDB . Of course , these are all database-related. . Hmm, but there are also domestic ones. For example, the XX official account also has the background development . He has the document , but the document does not feel very good .

【ask】

Then can you tell me specifically, what do you think are good documents, and what do you think are bad documents ?

【ask】

the quick start, so that you can quickly get started with the software . Like the XX official account on the Internet, there seems to be no such thing in the background . What , the way it is implemented , smelly and long, it's hard for you to see those things in the first place. Another possibility is the normative nature of the document. For example, many of their documents are now written with that Mark down, that is, Mark down is a typesetting prophecy. That is, the author only pays attention to the content when writing, and then it will automatically generate some typesetting. The advantage of this is that the generated document is very regular, that is, the indentation spaces and the style of the table are very uniform, that is you It looks very comfortable. Like the document in the background of the XX official account I just mentioned, it feels like it is written more casually, just like the same table. Sometimes he uses a screenshot of the table, that is, the table itself is a picture. Occasionally there will be spelling mistakes and typos in it , and this kind of feeling is not very standardized, and it does not look very comfortable.

【ask】

So what are their characteristics in terms of the comprehensiveness of the content, and the content is not complete?

【answer】

Well, a good document will definitely be more complete, and he will even give an example for every detail to facilitate understanding. For a bad document, he may refer to throwing the interface parameters of, for example, a function, that is Tell you that there are these parameters, but don't tell you what these parameters do , you need , or even need to try it yourself , just fill in various parameters, and try to know what it is, anyway , it is not Great documentation.

【ask】

the perspective of the document structure and organizational structure, what are the characteristics of a good document and what are the characteristics of a bad document ?

【answer】

Well, a well-organized document must be that the chapters and modules he divided into the document are very clear, and then there may be a general content outline and a navigation bar next to that page . Bad documentation may be done casually in this regard. It is just a simple list of functions, and it may not be carefully organized like this.

【ask】

Is this bad document or the example of XX? Also, are there any other examples in the country ?

【answer】

Oh, and there is the internal enterprise , that is, the kind that is not open source , internal-oriented documents, and the use of documents is very bad. It is equivalent to the fact that only the person who wrote the document can know the structure and organization of the document . Others will feel a little inexplicable when they read it, and sometimes they have to ask the person about the situation.

【ask】

Is this kind of document you see during your internship? It can only be viewed internally, he did not publicly put it online ? Is this document a pdf? Isn't he that kind of web page ?

【answer】

, a web page usually has a document platform or the like inside the enterprise, even if it is written on it, it is also in plain text , but since it was written by the old developer himself , it is not very standardized. The writing is more casual, and the habits of different developers are also different . When writing , the organization of the documents written by different people is also different.

【ask】

Just mentioned some examples of this document at home and abroad, then the process of reading will involve language problems. Do you think language problems, just in the process of reading, do you think language is a barrier ?

【answer】

Well, for pure development documents, it's actually okay, there are no such literary works , those are difficult to read , because most of them are still. How should I put it, even if you see me, I don’t actually need to look at him word by word, just some grammatical issues, even if you don’t understand it very well, it doesn’t affect your understanding of this technical aspect, so it should be relatively speaking. Good, but reading English may still be a little slower. If you need to go quickly, for example, if you want to quickly do a requirement or the ddl of some homework is coming , this kind of thing will start, maybe you will look for Chinese , Chinese still looks faster.

【ask】

Well, the next question is that you should encounter some problems during the development process, so what will you do when you encounter problems? Do you check the documentation yourself first or ask someone else ?

【answer】

The first step should be to look at the document first . If you can't find it on the document, and you can't find the question you want, the second step is to search, that is, go directly to the question and search for the question on Google or somewhere. Then in the end it's time to ask someone else .

【ask】

Well, that is, for example, if you encounter a bug, you tend to go back by yourself. The first step is to read the documentation first, instead of directly searching for this bug , this wrong code ?

【answer】

Well, this may also depend on the situation. For example , if a bug is encountered, then he will give a hint about the bug. In this case, he may directly copy the hint into Google and search for it directly . Then if it is in development. It is to go to a place and suddenly do not know what to use, this kind of general will go to the documentation.

【ask】

Encounter a more detailed problem, and then look at the documentation, right ?

【answer】

Well, it's not a matter of details. For example, you are writing , but the specific example may not be thought of for the time being. For example, you are writing a program, and suddenly there is a place where you are writing a program using someone else's framework, and suddenly there is a You know what function you want to implement, but you don't know what kind of module or what kind of function should be used in this framework , so you will go to the documentation. This kind of systemic problem or facing some unknown problems , as mentioned earlier, this is to look at the document, and then go directly to check, maybe for example, when it is running, it directly reports a line of error, that is, there is a specific The content of the error report, that is, it will definitely be faster to search for the content of the error report directly.

【ask】

What documents do you usually use? Just mentioned the official, official kind of document, so besides the official one, is there any other way?

【answer】

One is official documents, and then there are some well-known and famous open source software, there will be many fans maintaining different documents, that is, for example, the official documents of foreign software are in English, and there will be a group of fans in China who maintain Chinese documents. But this Chinese document is actually not official, that is, they translated this document because of their hobby.

【ask】

else besides this ? For example, when you learn a new thing, do you also read corresponding tutorials, textbooks, etc.?

【answer】

Yes, there will be, like those , there is that rookie tutorial in China , which contains tutorials for various programming languages, and then there are tutorials for various commonly used software frameworks. That is what I usually read, but that is also It's not an official document. It actually doesn't feel the same as the document. It's a kind of tutorial, which is equivalent to an extended version of quick start. It's mainly composed of many demos, as well as some examples, like this Tell you, tell you step by step how to use these things , it is a more detailed tutorial of this kind .

【ask】

I also mentioned blogs just now. Some people actually divide them into documents when classifying them . For technical documents, you will read blogs, blogs , or some um communities. Programmers and enthusiasts maintain their own . Questions and answers in this kind of community and so on.

【answer】

Well, this kind of thing will definitely be seen, because this kind of function is definitely required, the content contained in this will be much richer than the documentation and tutorials, and many of them are very specific, as I just said, Every time you encounter an error, you can basically search those Q&A communities with a single search , that is, someone has encountered the same problem, the problems mentioned above , and the solutions of others, that is, the coverage will be very wide. Then there will be corresponding questions for basically every detail, and the corresponding entries can be found.

【ask】

Compared with official documents , how do you think their quality is?

【answer】

Generally speaking, the quality of official documents will definitely be high, and then the quality of blogs will be relatively low, but like some XX backends in China , the documents themselves are relatively poorly written, and then they are not exhaustive . In this case, Maybe blogs will be better, but what is the problem with blogs , that is, different people may encounter the same problem, and the reasons for this problem are different. If you are looking at blogs , sometimes you want to click on blogs Step by step, if you follow the steps in the blog , you will find that your results are different from the results in the blog. For example, the blog is successful , but you still follow him step by step, but it still fails. This may be due to the environment or something , that is, the problem of differentiation may not be easy to solve through blogging .

【ask】

For example, when you encounter a problem, go to the official document. If the official document is not resolved, you will go to the blog , right ?

【answer】

Hmm, um, blogs are actually found through search , and official documents may not be searched or searched for purpose .

【ask】

When it comes to search, you generally use the method to find the technical documents you need, in addition to searching.

【answer】

that include blogging ? It may be better to search for the problem directly. For example, if there is an error, you can directly search for the sentence that reported the error , or if you want to search, you will use those specific keywords to search.

【ask】

Probably going straight to that official documentation site, right?

【answer】

It is said that there will also be official documents from search. However , you already know what this document is , you already know which document you want to look up, you may know the URL directly for you, you may even enter the URL directly, or even if you search for convenience, you can quickly enter the This is just a webpage of the official document. This may not be the same as search strictly speaking, so the core function of its search is not used. This is a shortcut entry .

【ask】

Then when you find this document and read it, um, it should be a relatively large document, with many pages and a lot of content, so how do you quickly find the information you need?

【answer】

The first one is navigation. Generally, the navigation of better software is very clear. Chapter 1 is quick start , quick start, and then chapter 2 may be some overview, some explanations of terms , and some software. The whole software is composed of which parts of the big modules, and then each chapter may be a small module or a small function, so it may be more convenient to find the content you want through navigation, If not, it will search, because the search engine generally has one, that is, you can enter the content you want to search, followed by a site colon and a URL, which is equivalent to searching in this website, that is, in the document, if It is difficult for you to find it yourself, that is, if you cannot find the content you want directly through navigation, you will search within the website of the document in this way.

【ask】

Inside the website of the document, he may also have his own search, there may be a small search engine , a search box , or the search engine uses some advanced query languages to search, right ? Well, I see, then I want to know what you, as a developer, expect from the documentation experience . Just wanted to ask if you have written technical documentation first ?

【answer】

Written, but it's all kind of internal.

【ask】

The internal ones are for yourself or for others in the same group, right?

【answer】

Because there will be mutual cooperation, that is, the modules you write may be used by others, just to let others quickly understand what you think when you write this thing, or his ideas, not ideas, but realizations However, the implementation method may be secondary, and more of those things that others will use directly, such as interface parameters.

【ask】

Hmm, can you give a rough example of a document you've written? Then talk about what the document contains, who is it for, and how you wrote it. What do you think are the difficulties you encountered in the process of writing?

【answer】

Well, just take the internal one I just mentioned. I wrote one of a database , well, it is quite an interface of a data structure. This interface provides set , get , etc., for example, set is to save a database only to In the database, get is the purpose of taking this out from the database, but it may not be as simple as writing and taking out such a simple operation. Maybe this value will also have international time, etc., etc., there are some additional attributes, These properties will be reflected in the parameters of these functions, so in our document, we first list the parameters of each function, the data types of the parameters and the explanation of the parameters. This is the main body of the document . At that time, the document seemed to be divided into several chapters. The first paragraph was the first paragraph , which may not be called chapters , because the whole is relatively short. The first paragraph was to introduce the data structure I wrote. , because it is a relatively mathematical concept, this data structure will be introduced. What kind of role can it play, and then what is the corresponding paper? Of course, just put a link on it. People generally don't read this. This is a reference pair, and then Chapter 2 is , Chapter 1 is this This kind of overview , Chapter 2 may be that it is for us, just because it is within the team , what kind of help it can play for our internal software , what kind of role can it play, why should I give this thing to Putting it into ours is why this module is developed and what benefits it can bring. Then the third paragraph may be the explanation of each parameter listed in the text , then the fourth paragraph may be some simple tests, such as Say, some small demos will be attached, that is, some of the simplest demos , such as the specific call parameters of this function, will write an instance. The fifth section is some performance tests, such as how high QPS can it run under what kind of environment , that is, how much traffic it can support, like this , as long as it is these five parts.

【ask】

That is, when you write it, you still divide the framework of this document. Do you think there are any difficulties or difficult problems encountered in the writing process ?

【answer】

I don't write many documents myself. Maybe I wrote it at the beginning . First of all, I don't know what to write, what to write, and what not to write , because the document is for others to see , and others may not care. What kind of ideas do you really use, what algorithms are used, and some very specific details, people who read documents may not care, so there will be a distinction between primary and secondary, and I am not very interested in writing documents. In a familiar situation, it may not be a good distinction between the primary and secondary. In fact, I also read the documents written by others, that is, I flipped through some documents written by others, and then I probably finished it according to my own preferences and feelings, and then Decided to write the 5 chapters just mentioned. This is mainly the case, and there are also some norms and norms , such as when listing the function parameters and interpretation, there will be some norms. You either say a long paragraph or are very colloquial, say a long paragraph, the first 1 What is the parameter , and then write a paragraph of text, and some normalization methods, maybe a table , the first column of the table is the parameter of the function , which is the parameter name, the second column is the parameter type, the third type If it is its specific explanation or other remarks , there will be a structured and normalized way to express it .

【ask】

That is, from the language and from the format, it must be structured and standardized. The next question is , because we want to improve the quality of this document, and then want to know the developer's demand for documentation, then what kind of document do you think is a good technical document, you can roughly summarize what you can do? Some points that come to mind . Or what kind of documentation do you expect to use?

【ask】

Well, the first one is that I have said many times just now, that is, the quick start, which is actually quite important. It is to let you run quickly first without being familiar with the software, that is, to know how it can run in general and what it needs. For example, in the case of the C ++ language , it is what it needs The header file, and then , for example, a database, first of all, the database has some fixed modes for using it, that is, the first step is to open it, and the second step is to pass in some options. For some operations, you can pass some attributes to him in advance , that is, there will be some such a fixed mode, he will be in the quick start, the quick document It will be very clear in the start , so that you will know in the future that you need to do what you need to do when you use this thing, and these are all fixed. In quick start, it is such a cognition that a developer can have a quick start . Secondly, good documentation is also needed , oh, let’s talk about the specification first, at least you have to make the developer look like this is one, that is, it is more professional, there can be no such typos, and even screenshots for tables This kind of thing looks very informal and unprofessional. This is the second one, and the third one is the chapter and the title , the big title and the subtitle, and then I hope it can be clearly divided .

【ask】

The organization of the document must have a clear logical structure, and then the format should have a fixed specification. For example, there are also specifications for major headings and subtitles. It is best to use a lightweight markup language such as markdown to write.

【answer】

Yes, generally this kind of title written in markdown will automatically generate a navigation , the navigation is there, that is, it is a multi -level navigation, so you may click on the most advanced navigation, there will be many subtitles under it, like this When you press the navigation to find what you want, you will be able to have a very clear path such as a first-level title and a second-level title, and you can quickly find the page you want .

【ask】

This actually involves some interactive design .

【answer】

Oh, yes, oh, and it has something to do with navigation, that is, the same content should not appear here and there , because when sub-titles, it may be because the internal structure of the software is very complicated, and it may be the same module. This interaction with multiple other modules may result in the same piece of content appearing in multiple sections of the document.

【ask】

You don't think that's good, right ?

【answer】

Yes, it is not very good, because if you want to fully understand this module, you may have to look at multiple pages, but sometimes this is unavoidable, because the internal structure of the software may be very complex, It may be unavoidable, and in this case, if some documents are well done, they will have that kind of two-way link, that is, from this document, or when you mouse over this link, it will have a small pop-up box . It comes out to allow you to roughly browse this, roughly browse some parts of another page, without having to click on this page, because when you click on this page, you may jump to another place, and then you see this document in the document The continuity of ideas is interrupted, and then there will be such a small pop- up box like this two-way link , which is a better point .

【ask】

In this box, is some general and more critical information about the document pointed to by this link ?

【answer】

For example, there is a module, which is mainly introduced in page A , and this module will be in another page. Maybe, for example, using another module will use some core functions in this module. In this case, I think The main part of the module you want may appear in document a , but there may be a small section in document b that is also related to this module, so in document a , at the bottom of document a, it may say in the module b , there will be a note saying that in module b, or some functions of this module are also used in another module, and then a link will be attached later, for example , click here or something, and then you put the mouse To click here , you don't need to click the link, he will pop up a small entry , the content in this small box is the paragraph in the b, not the entire page, this will let you know first This thing, and then if you want to learn more about it, click this link again, and the page will open like this .

【ask】

In addition to this, do you think there are any better design points?

【answer】

Maybe it's just to make the page look better. It is equivalent to having a modern UI style, and it will look more comfortable, but this may not be particularly important , and you may not be able to think of other things for the time being.

【ask】

Just what I said just now mainly involves three aspects, one is the content, the other is the structure, and there are some interactive designs. Well, we actually mentioned some domestic and international issues just now. What do you think about setting the Language switching, is this necessary ?

【answer】

It is also quite necessary . This thing, because there are more and more Chinese developers, and they are also more and more active in these international communities, so now many relatively large software will have a Chinese interface, usually in the upper right corner of the web page. , everything will have a small arrow, or there will be some flag icons, which can quickly switch languages.

【ask】

Do you think this is more important ?

【answer】

It is relatively important, maybe not so important, but if there is this , if he has it, it will be better, it is a icing on the cake .

【ask】

Well, this is a language problem, so have you ever encountered that kind of version problem? That is, the version of the document does not correspond to the actual version of the software or the tool. The version of the document is not updated in time, which will lead to some errors when you use this document for development. Ever had this problem ?

【answer】

There may be fewer encounters, so there is no deep impression. There is indeed such a problem. Generally , if the documentation is better, it will be updated in a very timely manner when a new version is released. Then the page of the document may also be divided into versions, or you may click on the document, and it will display the latest version by default, but there is also a drop-down box that allows you to select functions such as the old version .

【ask】

It is the document you have encountered, and its version update is still relatively timely, right ?

【answer】

Yes, I think the documentation of better software packages will generally be updated in a timely manner. Of course , if the documentation itself is in English, the corresponding translation may not be updated in a timely manner, but in this case, usually he For example, English is updated , but Chinese is not updated. In this way, a prompt box will pop up on the Chinese page , and there will be a warning box, which will prompt that the current document is not the latest, or it will be prompted to play a role as a reminder .

【ask】

Oh, then you think it is the document that is not very well done in China. If they want to improve it, apart from the problems just mentioned, are there other areas that can be improved ? For example, add feedback, and then let users let developers give them feedback. Do you think this is necessary ?

【answer】

Well, it is necessary and necessary, but generally open source software itself , that is, an open source electronic product itself, has an issue and a feedback function. But it 's hard to say how the feedback will work. It may have a lot to do with the development environment at home and abroad. The open source work in China may not be very good , so the quality of their documents will be relatively low. Of course, not all of them. There are also similar ones in China. Of course, because I have been working on databases before, and I have a good understanding of the database, there is also the XXX made by the XXXX company in China, and the documentation for these things is still very good. . But documents like X X and XX are not very good .

【ask】

What kind of documents of XXXX have you come into contact with?

【answer】

Like the XX side, the main thing is , for example, the Paxos Store , which is also a database, and there are some on the XX side, mainly the Paxos Store , which is an algorithm , a library . But to be honest, their open source is like the open source I did to complete the internal KPI , that is, maybe he will open source it, and then it will not be updated for a long time, just like when I look at the Paxos Store, it seems that it was updated last time . It still stayed in 18 or 17 years, and then that issue also accumulated for a long time, but the developer did not reply, it was equivalent to this open source, did you say it was open source, it was indeed open source , but he stopped again It is maintained , and the developer does not reply, which is equivalent to a state of half-dead.

【ask】

That is, even if they provide this kind of open source or provide feedback, they have not responded to this feedback well ?

【answer】

Yes, there are ways and feedbacks, but it is equivalent to a state of being left alone.

【ask】

So other than this, can you think of anything else ? If you want to give them suggestions for improvement, can you think of other points? By the way, I mentioned the ecology of domestic and foreign development just now. Do you think that the domestic development ecology is not very good. Besides open source, are there other aspects that can be discussed ? That is to say, you think the development ecology in China is not very good. First, open source is not very good, and there are other things that are not very good ?

【answer】

have to do with documentation ?

【ask】

Yes, it has something to do with the documentation.

【answer】

If it is not open source, the documents of closed source software may be mainly internal-oriented. Of course, the quality of these software is not good, I think it is very normal, foreign, but I don't know how these internal documents abroad are. I Probably not much better. Because the first is some internal-oriented documents, it is not an indicator in itself, nor is it your performance, so everyone may only need to have it, and they will not write it very seriously, and then maybe after writing it. It will not be maintained for a long time. Some documents like my previous internship are very old, that is, I even asked others and said, alas, how can you use this thing different from the document , he said , this thing It's just that it has been updated for many rounds , and it is no longer what it is in the document.

【ask】

That is to say, the update of the documentation cannot keep up with the speed of the software iteration .

【answer】

Yes, so I still hope that the company can pay more and more attention to documentation. If you can’t do it by yourself, you may be able to include some indicators , and some are indicators for assessment, but this may not be very good . This is an idea, which is to give developers some motivation to actively maintain these documents. .

【ask】

In fact , the team that he writes documents in the company is not all developers, and there are people who specialize in basic writing. These people may have a writing background in the liberal arts , that is, they are a mixed team.

【answer】

This may not be very well understood .

【ask】

Well, yes, because the developer himself may not have a strong willingness to write documentation. For example, as a developer, it may be acceptable if you are willing to spend time writing code, but it may not be acceptable to spend time writing documentation. of.

【answer】

I just thought of a joke, saying that programmers hate two kinds of people, one is, no , two things are the most hated, one is that others don’t write documentation, and the other is to write documentation yourself , that’s how it is. It's annoying to see someone else's stuff without documentation , but when it comes to writing your own documentation, you don't want to write it yourself.

【ask】

Can you think of any other points? Is there anything else to add? For this expectation of documentation, suggestions for documentation improvements.

【answer】

Well, maybe what I said just now is more complete, that is, I mainly think of these, I still hope that the documentation, the documentation is really very important for developers , but it is true that everyone is reluctant to write, this may require something This method , of course, may be more management of some of the above methods to make the document better and better.

【ask】

Okay, nothing else to add, right? Okay, then our questions are over, and we'll be here today.