**P 2**

2021-10-2 9:4:15

【ask】

Okay, let's start now, let me introduce first, my name is X XX, I am a 20-level XXX major, oh, you are a 21-level, right? Well, then, I am now doing a research project with our teacher, called the developer's document experience research, which is to evaluate the technical documents used by this developer. Do you know the technical documents?

【answer】

Technical documentation, I don't know exactly what it means.

【ask】

In the field of our software, it is divided into two kinds of documents, one is for novice users, that is, users of the general public, such as teaching you how to use a software, and the other is for professional developers like you. It is the document used by programmers. For example, if you call a certain function , API interface, etc., then you need to refer to some of its API documents.

【answer】

Are you talking about some official documentation of, say, software?

【ask】

In addition to the official documents , it can also contain some tutorials , teaching materials, and even some answers in the community that you will use when you solve problems .

【answer】

I understand that .

【ask】

documents you usually use . It is usually what you will use in the development process, so I want to do an interview. Well, well, then I will ask in order, and then you can talk about your professional background and development experience, and briefly introduce .

【answer】

professional background, I studied architecture at X X as an undergraduate , and now I am here for a postgraduate study, in the direction of X XXX . In terms of development experience, I probably started working with computers more than a year ago, and I have taken several professional computer courses. During the class, I followed the teacher to do some projects. After the class, I also had a development experience of an actual project, but in that During the process, I was not mainly involved in writing code. I was mainly involved in the management of products and this project. So far, I have just entered the school, so my main development experience is in the last year of my undergraduate degree before admission .

【ask】

Do you have any experience as an intern in a company ?

【answer】

I've interned in a company, but I'm doing a product .

【ask】

Making products, um, I understand, um, and then, your future employment direction should still be a career like programming, right, in the short term, within three years, you will be a programmer. Then you should also define yourself as a programmer . So what do you think are the characteristics of programmers compared with other professionals?

【answer】

I think one of the biggest features is its rigor, that is to say, it is right, because it is generally necessary to write code when writing programmers, and writing code is actually because I originally studied architecture, and it builds a house. , it may not require architects to build brick by brick, but programmers are relatively directly exposed to details, so I think its first big feature is that it is very rigorous and pays great attention to details .

【ask】

That is, for example, in terms of your study method and study habits, what do you think will be different from others ?

【answer】

There will be a big difference in the way programmers learn, that is, it needs a spirit of open source and the ability to search, because if I come into contact with people in other majors, it has a lot of questions, and it may be through one-to-one questions. Others, or to read the paper textbooks . Although I also go to the Internet to check, but I have never been, relatively speaking, people in the computer major are not so good at using online resources, so I think this is the biggest difference in the way a programmer learns .

【ask】

It's still more inclined to teach yourself to solve problems by yourself, right ?

【answer】

Yep.

【ask】

I understand, oh, then let's talk about the development or learning experience you have done, that is, because you are still in touch with development, you are still relatively small, so let's talk about how you learned software or technology, Even in the process of going to school, the teacher should also let you learn some tools, etc., such as a new framework or software or a certain technology, then you can chat, that is, you can recall what you have learned New technology and new tools ? Then give an example .

【answer】

tool include using off-the-shelf software? Or is it a tool for writing code , right ?

【ask】

Yes, the tools used for partial development classes.

【answer】

Ah, for example, recently, we recently took a course on Internet development, and then it involved , the teacher gave us a task directly in the class, and its first assignment was to let us choose some frameworks and languages. , to implement a small function, and then in the process it just briefly talks about the whole idea, but does not talk about any details, and then after I take this task, I should talk about how I learn this process, right ?

【ask】

Yes, it is from the time you heard about the software or tool to the end of using it .

【answer】

OK OK , because we choose the technology stack by ourselves , then the one I chose is the Springboot framework, and then with MyBatis , I only know these terms, and then when I was doing it, the first step was to ask about After I checked with my roommate , I would find some information about these things that would make it easier to get started. After getting some information from them, I searched for some keywords on the Internet. Probably, I finally comprehensively screened out a few more authoritative ones. documentation . Then I read it, probably after I understood this document, I started to do it, because these two frameworks are actually for the realization of the function I am doing, then I will simplify this problem first and then run it through a minimal On this basis, I will read a new document, which basically means a realization function, and then go to check the information, and then realize the process of step-by - step improvement of the function .

【ask】

It's just that you're still mostly relying on documentation to learn in this process, right ? right. Then your documentation should be the official documentation of this tool.

【answer】

I prefer the official document, and because the official document has a characteristic that it is possible in some places, it is very comprehensive, but it is not so detailed in some places, or it defaults to you may know This knowledge background, so if I lock this question, I go to check some other information, it is not the official document, maybe after reading a lot, I will find that some places will involve some interpretations of this unmentioned place , which is equivalent to a supplement to the official documentation.

【ask】

used official documents or other types of documents in your previous development work ?

【answer】

Before entering school, I seldom contacted official documents in my studies. There are two reasons. The first is that I did not realize the importance of this official website at that time , and generally the official documents are very large and complete. If you do not use them often, you will I don't know which problem to look for, because the problem you encounter may be very urgent, and then it is a small problem, but the official documentation involves you need to lock the problem step by step, and then the second is because I see it now It seems that they are all in English, but I didn't actually have this concept before. If I saw the official documents in English, I didn't have the habit of reading English, so I didn't read the documents before, but there were also Chinese ones. Development documents, but because of the official documents in China , I think there are many problems involved, such as translation may be very strange, and I don't have the habit of using them.

【ask】

You didn't realize its importance before, but then you gradually realized that documentation is still more important, right ?

【answer】

Yes, I now think the official website is basically the most direct way to get in touch with this thing .

【ask】

Understood, that is, what do you do when you encounter problems during the development process?

【answer】

If I have a problem in the development process, of course , I will put this specific problem first. If it is a problem with the program itself, I will first analyze whether there is any logical problem in my entire program. If it is an error report or something It's very strange, I can't understand it, then I will copy it as it is, and then go to search, that is, to find the answer from the Internet .

【ask】

The answers you find are generally the experiences of other people, right, from blogs or the experience of some of your programmers' own communication communities ?

【answer】

Yes, there are generally some classic communities , ? For example, CSDN , GitHUb , Stackoverflow , these, they will have various interpretations.

【ask】

Then if you search for the answers on these communities , if you don't find them, will you go to the documentation, the official documentation ?

【answer】

Generally speaking , the problem I am currently encountering is based on my previous process, that is, if I have searched for a long time and have not found an effective solution, then there are two possibilities. One possibility is that I will put this matter on hold. . The second possibility is that I directly ask someone who is more familiar with me and has more technical skills, and let it help me check one-to-one. In the original process, no official documents were involved .

【ask】

Why don't you go to the official documentation? Maybe the official documentation also has a description of this failure .

【answer】

It's because I haven't established a habit of being very good at using official documents , so when I encounter such a very urgent problem, I always hope that the doctor will directly check the problem itself, because the official document I think , as far as I see it, I still don't know how to quickly find its location, which is the location of the problem .

【ask】

So it's actually an inefficiency problem, isn't it ? So you think asking someone , just asking someone with experience is a faster way ?

【answer】

It's more direct or faster, but I don't think it's a long-term way, it's a feasible way .

【ask】

Understood, then you usually , just now you actually mentioned some, what types of documents do you usually use? This question is asked because we now do not have a clear definition of the documentation used by programmers , that is, developers . As far as you can understand it simply , it is the materials and documents that you need to use when you usually study, during development work, or use a certain tool and software technology .

【answer】

Well, the materials that need to be used are, of course, first of all, whether those books are counted, that is, some classic textbooks, whether this thing counts as a document, is a teaching material for the technology itself, which is one, and then the second The reason is because I take online courses. Now some online courses abroad have some online books, that is, they have specially made a website book for this course. In fact, the content is all in this book, and there will be a corresponding relationship, so that after I finish this course, I can look back at this online book, this is also one, and the other is the only one I use now. The official one of the tool itself is called docs, which is the description , the document center , and this is the third type . Then the fourth kind of information is like what you said, it is actually some specific questions, some websites for specific questions, it will have some answers from some people, I think this may also be regarded as a part of a document .

【ask】

Probably some of these types , right ? Which one is more used ?

【answer】

Use more? In fact, the fourth type that I use more often is the direct question and answer from others , because I have not established a relatively complete learning process, so the first three may actually be similar, but I I think that in the future, I may use the third type, which means that I use more official documents.

【ask】

As far as you are currently, it is mainly used to solve specific problems and detailed problems . Okay, so how do you usually find these documents? Just mentioned, in addition to the search engine , there are some books you read , and this book corresponds to the electronic book corresponding to this course. Is there any other way ?

【answer】

Well, you mean how do I go about finding a document this resource? In addition to searching by myself , there are very few parts, such as classmates will tell you what kind of thing there is, and then I will look for it. This is also an indirect way, but 99% of the cases are me. search .

【ask】

Searching in the search engine by yourself, um, understand, that is, when you search, it is mainly through keywords ?

【answer】

Through keywords , or first look at a more obscure one, such as a question and answer, it will roughly tell you what things may be better, and then you go and then slowly narrow the scope, and then find you the thing you want .

【ask】

Well, the other thing we want to ask is your reading habit . Suppose you have searched for this document, and then you open this document, how do you quickly find the information you need?

【answer】

I will basically look at it first, if there is a directory, I will definitely look at the directory, and then I will filter out several possible locations, that is, because some of its keywords are actually relatively similar. Then after I get to these positions, I will click on a specific article, and then I will quickly look at the first sentence of each paragraph. If it is approximate , first I will see if it is long. If it is very long, Maybe if the problem is more urgent, I may choose another time to read it, but if it's not that long, if I can read it all at once, I'll take a quick look at the few articles I clicked on to see which one More likely it's the question I'm asking for and then read on line by line .

【ask】

Oh, you are used to clicking on the directory or the navigation of that website to locate, right ? So will you use search targeting?

【answer】

will also use it, because when I first search, when I look at the catalog, I will be used to typing my keywords first . If it is very special, for example, it is a special noun. noun, then I will definitely search for this name first to see where it appears, but if it is a very vague or very general thing, then I will because it is very human, if I gave it keywords, but in fact it didn't cover the relationship, so it could n't find it , so I'd have to look it up myself first, maybe it means this , and then look for it .

【ask】

Well, you actually mentioned it just now. You have read some domestic and foreign documents, and how do you think their quality is?

【answer】

Basically , my current tendency, although I don’t watch much, my current tendency is to read foreign ones , if you can read the English version, just read the English version, and if you can read the ones that are closer to the official or more authoritative ones, Look more authoritative .

【ask】

Why ? Why do you have to watch the English version ?

【answer】

There are several reasons, because the first reason is that for the same question, there are still more and more complete information in English, that is, if you search in Chinese and English, the total amount is different. Of course, this question corresponds to This is another question, which is the Chinese version of the community . In the Chinese community, there are many answers to the same question, such as C SDN, but there is a high degree of repetition, that is, it will copy each other , so you spend a lot of time, In fact, we are looking at the same thing. This is the first reason, that is, the quality or total amount of English. The second reason is that I think the answer on the other side is actually the same, that is to say, its quality is actually higher, because I think I can see it in it. It really took a lot of thought and attention. steps and it will tell you why . But there are a lot of domestic ones, because I read Q&A, and many Q&A are actually step- by-step, and they don’t tell you the ins and outs of this thing, so I actually see it very partially, and I don’t know what it is talking about. It is a question of the quality of the answer, that is to say, these two documents may be in English, especially if you can . I will add a sentence here , that is, you can read textbooks in Chinese and English, which can actually reflect this problem. The habit of English textbooks is that it is very, very thick, very, very thick , and it is very comprehensive, but you can, if you want to find it, and if you find it fast enough, you can get a general idea of what it is like, but Chinese words are more concise. If they are written very, very concisely , in fact, for people at different stages, some people may like to read this simplified version, but if they are beginners or low-level people, they should read this. In fact, it is very difficult to understand what it means .

【ask】

Whether it is an online question-and-answer community or a textbook , the quality of English is higher than that of English ?

【answer】

More suitable for me, more suitable for my study at this stage .

【ask】

So do you think language is a problem?

【answer】

For me, it's not a problem now, because I think there are two reasons. The first reason is that my English itself is ok, and I have always had the habit of reading some English and watching some videos in English . Then the second reason is technical books, or professional data, unless a lot of professional terms are involved, as we are currently learning, there are not so many professional terms , and it is not so deep , the English words it actually uses are all It is very simple, relatively simple, it is not literature or other types of data , so it is relatively simple .

【ask】

It's not too much of a hindrance to read, is it?

【answer】

Yes, there is no obstacle to reading, but the speed is definitely not as fast as Chinese reading .

【ask】

Oh, that's because you mentioned this community just now . The Q&A community, like csdn in China , has high repetition, so if it has quality , should the quality of the answer be better ?

【answer】

Are you saying that there are better quality ones in the domestic community? Basically if I had to choose. Most of my searches in China still use csdn , because how to say, such as blog garden or nuggets , short books , it may indeed have some very few, the answer will be better than CSDN, or CSDN does not have, but absolutely In most cases, it is your problem. It is only available on csdn . Although it has a high repetition rate, it is full enough.

【ask】

Good to understand, in addition, this kind of official document, in Chinese, you think the main problem is in the Chinese document.

【answer】

Before this question, because there must be English documents first, there are official Chinese documents. If there are both, then for me personally, I must read the English documents directly, and then, to answer this question , What is the problem? I think the biggest problem is that it is translated, that is, although it has a good translation, it basically does not lose its information, but if it is capable of reading English documents, it is this The translation layer is actually a lot weaker , at least a little weaker , so if you have the ability to read, you must read English documents. If you ca n't read English documents , then I think a problem is that its translation is not good, and if the translation is not good , especially in English, although there are not so many terms in English, but there are actually a lot of things like class and so on, these professional terms, you translate them into Chinese, you may have a translation in your mind process, because when you write the code, it is written in English, then it will feel awkward if you want to translate .

【ask】

it is actually more direct if you read English directly.

【answer】

Except for those excessive words in Chinese, it is Chinese, but it actually involves specific knowledge, and it translates it into Chinese, but if you have not been exposed to the Chinese name in this environment, you may have to react for a long time. What are you talking about .

【ask】

Do you recall that there are more successful examples in these documents you have used? Just give an example, the one you think is better , the documentation of a certain product.

【answer】

I thought about it, because I just started reading the documentation recently, and the only one I use is springboot . MyBatis , as well as docker, and a document for Alibaba Cloud's server. There are only 4 of them, and then I think they are all okay, because as long as you have patience, you can basically follow them .

【ask】

Do you think these 4 documents are all well written ? Then do you think they are good or good?

【answer】

The first one is good, of course, it is comprehensive, because after you just read the catalog, it can cover basically all the problems you encountered in the beginner stage, and the second one is that it has its ins and outs, and this thing is not to say directly How to do this step, because it is complete , so you can see what it is in the previous step , and then why it does this, that is, I think these two points are more important, one is complete , and the second is able to make you can understand .

【ask】

Well, then do you think their documents are from , because there are so many documents , from the organizational structure , from the logic of this layering, is there any better?

【answer】

I don't have much experience with this, because the articles I read are very limited .

【ask】

Okay, so can you recall an example of a document that failed? The ones you've seen are worse .

【answer】

this document refer to the official document or ?

【ask】

Official documentation or such unofficial documentation is fine .

【answer】

Poor documentation, the poor documentation is just those answers, just some answers , like I said earlier, it refers to only posting steps, or just, basically, only posting steps, and then it doesn't write anything about it. The reason for this step is that the whole article is also confused, and the people who read it don't know what it is talking about .

【ask】

So to sum up, oh, in the official documents you have seen, you think the quality is still acceptable, and they are all okay, basically they can cover the information you need. But in unofficial answers like this, the quality is not very good, and the repetition rate is high .

【answer】

Yes, the quality is uneven, and then the repetition rate is high .

【ask】

Understand, oh, then the next question is, have you written technical documentation?

【answer】

I've written technical documentation, but I haven't made it public.

【ask】

not public, it doesn't matter, it's just that you talk about the document you wrote in detail .

【answer】

For example, if I am learning something now, then I will definitely write while learning, um, now, for example, am I doing this homework now? I will record what I think this homework is. Well, I think there are several pieces. The first piece is the material I refer to, that is, I will make a record myself , which materials I refer to, and what problem does each material solve? Is the 1st block, the 2nd block I will write what steps it takes for me to complete this task . Because each step is in the process of doing it first, I add it as I do it, so it is a rough number of steps at the beginning , and then in the process of doing each step in detail, I am in every big step of beauty. , I will add my small steps, and then I will write about the problems that I have solved during this process, which is equivalent to forming an article about the whole process of me learning a thing and completing a thing, um, the materials used, Then learn the ideas, and then finally solve the problem and learn something.

【ask】

this document is , one is the teacher's request, and the other is your own requirement for a function of this learning record, right? Record your own learning process or the process of realizing this function.

【answer】

Recording is a major aspect, and the second one that I think may be more important is in the process of doing it, because it is a long project with a lot of content. If I don’t write it down, I don’t know which step I have done. , so it is said that every step I do, I can look back to see if the previous steps are correct, and it has more functions to assist me in continuing to work on this project.

【ask】

document you wrote is actually for yourself to see, yes, mainly for yourself . So have you ever written something like that for others to see ?

【answer】

I have not written.

【ask】

Understand, um, the last question is what kind of documents do you think are good technical documents, because we are now doing a document quality assessment, and then after the assessment, it may be for some of our domestic, such as some Internet Companies, such as BAT, will evaluate the quality of their documents and provide them with some suggestions for improvement. Then the programmers' own suggestions can also be used as a reference. We want to ask you what kind of documents do you think Good technical documentation, or what kind of documentation you expect to use .

【answer】

As far as I mentioned the two points of the official document, the first point is that I think it should be more comprehensive, and the second point is that on a comprehensive basis, it should be interlinked , that is, each step, the previous step and the next step , I want to know what is the relationship between them, and then add point 3. I want to be able to see its classification, I can quickly lock my problem, because this document is very complete, but I can't find my problem quickly, I am equivalent to reading a book in its entirety, so I hope The kind of block it does is to classify it clearly, and then allow others to quickly retrieve the parts it needs. I think the three points are the three I just said.

【ask】

What about the design of some more detailed issues, such as this document, such as this official document, and its official document site design? With this front-end design, what do you expect? For example, this kind of code highlighting , or one-click code copying , etc.

【answer】

Ah, this kind of problem is inconvenient to use. The interactive experience, based on the documents I am currently using, I think it can be done. First of all, it should not have too many navigation bars , because I have seen some documents. , there is a very complicated navigation bar on it, and the classification of each item is not so obvious, so it is very difficult for me to read its catalogue. I find the catalogue and I don't know what the relationship between each catalogue is. , is it a complete work, so I think this actually goes back to point 3, it is a navigation bar outside the main content , it must be a little more concise, and then don't put too much pressure on others, Because the document itself is a very complex thing, it covers a lot of content, if you make the navigation bar, the first thing others come into contact with, very complicated, others will not have the kind of motivation to read it. , or feel a lot of pressure. This is basically what I can think of . Because of the function of the specific details in it, I think it may be, and I may feel it only when it comes to this scene.

【ask】

We have basically finished asking our questions, but I still think that you are the contact, and the learning process may be relatively short , because I actually want to ask you, give a very specific example, and then start listening from you. Speaking of this software or technology, you really learn to use this software through documents or other learning materials, and then complete a project you need to develop, or a certain function to achieve a certain function, we actually want to do this whole process. Analysis, and then you think about it, have you ever had such an experience? It doesn't have to be recent, as long as there has been a relatively complete learning process, and then really learned the software through documentation to achieve a certain function and complete a certain project .

【answer】

Because I only recently started to read this relatively official document. For the things I did before, such as the scientific research projects I did, I basically didn't read this kind of relatively systematic document. When I encountered a specific problem, I went to Look up a specific question .

【ask】

So what are the projects you've done before?

【answer】

For example, the operating system , the course project , it is a simulated elevator scheduling or a simulated file system, that is, the teacher assigns a task, and then the knowledge used for this task is the knowledge required for the class .

【ask】

So there is actually no need to refer to too many additional things .

【answer】

don't need to refer too much , I want to learn a brand new tool, it may use this specific language, such as c sharp , use these languages, and then be able to complete its functions, in fact, more is, as long as you know After the programming language, after knowing the language, you can write it and write its logic .

【ask】

When you talk about programming languages, in fact, programming languages are also a tool , so how did you learn these programming languages?

【answer】

For example, let's say Java , I'm learning Java during this time , and my main way of learning is to follow the course . Following the course is to choose a Java-related course , which is one of Berkeley. It is not a special programming language course, it is a relatively comprehensive course , it includes Java , data structures and algorithms, and then they In the first few weeks, I was talking about Java , that is, after taking this class , I did its homework and related projects, and practiced this Java in this exercise.

【ask】

Is there any official documentation of Java used in the practice process ?

【answer】

I rarely go there. When I was learning this, I rarely checked the official website directly. Usually, for example, if I wanted a function, I would check the specific parameter of its function . It might pop up a The screenshots in the official documentation, I sometimes look at it, but I didn't deliberately look at its official documentation.

【ask】

Understood. We have basically finished asking the questions today. After asking, thank you for your answer today, then I will turn it off first.