**P22**

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【ask】

Please recall your recent or previous experience of learning a tool, software or technology. What was the whole process like from hearing about this technology to actually learning to use it to complete some development work?

【answer】

That's what we learned before work, I need to learn that, software like UC and CD. Then I was looking for someone at first, then I was looking for someone to teach, and finally I found some materials on the Internet, or some purchased tutorials, and then I used that document and some videos to teach to complete this learning.

【ask】

You go on. I hope you can talk about this learning process in more detail.

【answer】

For example , I bought some tutorials on Taobao , and then he followed the steps, that is, from the software interface and then gradually to some in-depth operations, and then there are instructions for this operation in the document, and then from detailed to complex, and then also Step by step.

【ask】

Then I probably understand that you mainly read the tutorials in this document to understand this software, right? Then you can divide the whole process into several stages from the beginning, which is a process of getting started, and use it proficiently at the end, and then talk about how you learn at each stage and how to use it. to use.

【answer】

Well, I think it belongs to a novice from the beginning, and doesn't understand anything. Well, it may not be clear what this software does, and then go to the document to understand what it does. Secondly, in the second stage, I think it is to have a preliminary understanding, some basic operations, and then be able to skillfully find various programs or functions that you need to use on the interface. Then secondly, in the third stage, I think it may be more familiar, and some software will be more in-depth and difficult to operate, but it is not particularly difficult, especially difficult, not very good, I think the last The stage is to be able to use this software in a comprehensive way, to find out what program functions you need to operate, and then to solve some difficult problems by yourself.

【ask】

Well, in the whole process, the materials you used were mainly documents, right? So can you say which part of the document you are looking at at each stage? You are divided into 4 stages.

【answer】

Well, at the beginning, you should look at the general introduction of this software, then some functions and main uses, and then when you first learn it, it is its operation, and he has that is the operation manual. It's that kind of tutorial, basically it's shallow and deep, and then learn it step by step.

【ask】

Is this tutorial a how-to?

【answer】

It's like that, and if you have any questions, you can ask.

【ask】

Where are you going to ask?

【answer】

Find that customer service, or buy the piece .

【ask】

Then this should be the first stage, right? The first stage is to read the operation instruction tutorial.

【answer】

Yes, and then I will learn some basic words. I just use the software to practice, there are some things that need to be done, and then I will explore by myself. If I am learning, I will be more familiar with it.

【ask】

For further familiarity, are you going to see his example?

【answer】

Yes, some programs made by others, specifically how he came to do this step by step, and then watch some videos or some of his literal introductions.

【ask】

Well, those examples are in his documentation, aren't they?

【answer】

Yes, and then there are some videos mixed in.

【ask】

Video refers to the video tutorials that are included in the documentation.

【answer】

right.

【ask】

And what about stage 3?

【answer】

Well, the third stage is the deeper level of the second stage . It will be more complicated, but not particularly complicated. Like the second stage, the general tutorial of the document is from the shallower to the deeper, and then it becomes more and more difficult. Yes, and then there will be some examples, but the document will be written in more detail, and then it will guide you step by step, and then the video will come step by step .

【ask】

What about the later stage, what about the last stage?

【answer】

The last stage is to know everything in the document, then practice, and then um, find some examples, and then do it yourself.

【ask】

Will you come back and look at the documentation when you go to practice?

【answer】

Yes, because there are inevitably some neglected or forgotten things that need to be reviewed again.

【ask】

What I look back on is my negligence. For example, I forgot a certain parameter, a certain value, etc., and then come back and check, right?

【answer】

Yes, or a certain operation, I forgot how to do this operation, come back and learn it again.

【ask】

Hmmmm, I probably understand, um, is there a certain document in the document you read that you remember well? Remember very clearly.

【answer】

Well, it is very clear that a tire model was made at the beginning.

【ask】

Well, can you tell me what parts this document is made of? Then you can roughly divide them into categories, because documents can be divided into several categories, such as the concept introduction category, the step category, the reference information category, the explanation category, etc. You can roughly divide it.

【answer】

Well, at the beginning, he would say, probably the operation that needs to be used is what kind of difficulty does this model belong to, and secondly, secondly, he will tell you in words step by step, where did he come from? One piece, then which one is needed, why use this operation to accomplish the same function, and then the second is about the same, he is an explanation with a video, and then in fact, the last word is to talk about some common problems, if after this operation, he does not This effect should be able to appear, that is, how to adjust how to do it.

【ask】

Hmm, I probably understand, and then, when you are doing practice, you should refer to the examples in this document, right? Just make some modifications based on these examples, right?

【answer】

right.

【ask】

The next question is to ask about your source of information. What is your source of this information? That is, where do you usually use this information and document, where did you get it.

【answer】

Some were introduced by friends, or some were purchased online and paid for.

【ask】

What else do I need to pay for the data? What do you usually need to pay for?

【answer】

It is a relatively deep thing, just like a software, that is, some deep level things, basically you need to spend money to learn it.

【ask】

Paid textbooks. Besides this, is there anything else?

【answer】

There is no specific, that's all.

【ask】

Have you ever searched for documents through a search engine?

【answer】

Yes, but basically they can't be found, and it's more difficult to find things.

【ask】

Ah, where would you go if you could n't find it?

【answer】

Well, go buy some resources online. If you basically use a search engine to search , if you want to see why he is, it is the ones that you need to pay and recharge.

【ask】

Can you give me an example? That's what needs to be recharged.

【answer】

If the CD is a software, I need to do some very difficult operations, and then I do it. When I encounter a problem, I will say, why is it not like that after this software is completed, and then it will have some text explanations. Basically, it is not particularly accurate. , and then some websites will sue you after you search it, and I will pay to see the answer to this.

【ask】

Um, are you talking about paid sites like some technical forums? Hmm, well, I probably understand, some of the deep content of the technical forum, he may need to pay to watch. Well, the next question is about one of your reading habits, that is, after you open a document, how do you usually read it?

【answer】

Well, let's take a look at his overall structure first, which is the outline of the whole, and then start from scratch, pick your own focus or read it part by part.

【ask】

Hmm, is there a situation where you just read from beginning to end?

【answer】

This is often the case. If I do this operation, I forget how to do it after this, and then go back to the document, that is to jump to find.

【ask】

Jumping to find the information is equivalent to quickly locating the required information, right, so are you jumping to search for that keyword, or do you search through the navigation directory?

【answer】

All have.

【ask】

Um, all of them, right? Well, did you encounter some problems during the development process? How did you solve it?

【answer】

If this is a technical operation problem, if there is a similar problem on the material I purchased, I will check how the material solved it, and then I will follow suit , and if not, then Go online to find some forums, and then just discuss it.

【ask】

What do you mean by forum?

【answer】

Software Technology Forum.

【ask】

Software technology performance forum, such as this stack over flow?

【answer】

right.

【ask】

Can you briefly describe what problems you have encountered? This problem can also be divided into several specific categories. For example, some errors are reported, some are functional problems, and some are more systematic and macroscopic. Can you give an example?

【answer】

Just follow his tutorial, after this step is done, but he didn't actually show me that effect. Then at this time it is necessary to adjust the parameters, some values or something, maybe this is not very clear. Just check how he adjusted similar problems, or someone else has the same problem, and then look for it directly from the documentation.

【ask】

What about other types of problems?

【answer】

There is also the loss of operation steps, and some source files may be. Sometimes when you are doing it, there will be some errors, that is, some damage to the source files.

【ask】

Well, what do you do then?

【answer】

It's time to look for the engine.

【ask】

Well, what you said is this expression, how do you construct this search expression? What should you ask?

【answer】

if the CD source file is damaged? What should I do if it is damaged during operation?

【ask】

Just ask a question, right? Did you search by keywords?

【answer】

Well, yes, if it can't be found for this kind of problem , then I will use keywords to see if there are similar problems of the same kind.

【ask】

Well, okay, well, the next part is about what you expect from this documentation, what kind of documentation do you think is a good developer documentation ?

【answer】

Well, there is an overall and detailed framework, that is, which part is which part, what he said is what the thing is. Secondly, the language is clearer, that is, it is very easy to understand, and then some English annotations are given when important terms are used.

【ask】

Hmm, for some notes in English, are you referring to the Chinese or English documentation?

【answer】

Chinese documentation.

【ask】

Do you usually read Chinese or English more?

【answer】

Most of them are in Chinese. Like some foreign technologies, they are basically in English.

【ask】

Do you find it difficult to read English?

【answer】

Oh, it's not particularly difficult overall, but there are some things you don't know.

【ask】

You still feel more comfortable reading Chinese, right?

【answer】

right.

【ask】

Well, that is the experience of the document. It can actually be divided into several dimensions, that is, in terms of content, in terms of structure, you just mentioned that it has a relatively clear overall framework. Structure, and then in terms of language, that is, language, Chinese and English, and translation, as well as its documentation, because most of the documentation is on the website, it involves an interaction design issue, as well as documentation As far as the maintenance is concerned, whether the update is timely or not, you can roughly talk about one of your expectations from these aspects. Then what do you think is more important?

【answer】

Well, I think the ideal is a document, it has a beginning and an end, and then its content is full.

It has an overall and detailed outline, and which part of it is a specific part. If it is said that I have forgotten about this thing, I will read this article later, I know which part of this frame it belongs to, just directly Go to which part to lock , and then go to the keyword to find it carefully.

【ask】

This means that the various parts of the document, the modules should be clearly divided among them, right? Each part can answer a question independently, right?

【answer】

right.

【ask】

In addition to this, it is a matter of language, and I prefer most of the Chinese, because after all, it is my mother tongue, um, and the language is more concise, even if the terminology is sometimes I hope you can give an explanation, because if it is like before me He felt that he didn't understand anything, and then he came up with some terms, and then he still didn't understand it very well. Then there should be nothing else.

【ask】

Oh, that means you still pay more attention to its content, as well as his language, what about the design?

【answer】

In terms of design, I like that kind of design, which makes people feel refreshing and clear at first glance, unlike that kind of feeling that this piece and that piece are particularly messy. Then, I hope to be able to match the application of pictures and texts or videos, and I don't like that kind of blind Chinese characters or something. Then, like that interaction, I like this kind of direct download, and then I don't have to use other software to go back and forth.

【ask】

Direct download, you say this is the one that can be downloaded directly and then installed, right? That is to say, his installation steps should be less, right, not so cumbersome.

【answer】

right.

【ask】

Then you mentioned the video just now, that means you prefer to watch this video, right?

【answer】

Because sometimes I feel that reading, following his steps is a feeling, and then watching a video is a feeling of learning.

【ask】

Is it because the video is more intuitive?

【answer】

right. Like it might not be possible at the beginning , he is going step by step, step by step. But the second part may not be done, and then the video is a more intuitive feeling.

【ask】

Well, have you ever encountered this document, and its maintenance is not timely? Updates are not timely.

【answer】

It used to be like that software was updated, and then, um, the problems he encountered could be solved using the methods in the document before, but after the current software update, it didn't work for him, and it was no longer applicable.

【ask】

The content of this document and its organizational structure or the language and design and maintenance, which one do you think is more important, you can rank them in an order.

【answer】

Well, I think the first one is a framework, the framework structure, and then the layout design, and then the third one is the interaction, and then the language, and the content itself, I think, the framework is next, after the framework.

【ask】

Well, there is another question about this developer, that is, we want to know the characteristics of the study and work of developers or programmers. What do you think are the characteristics of the study and work of programmers? What are the differences?

【answer】

I feel that, um, just reading, watching, learning and operating, just lacks some fun, um. Then it gives people the feeling of being very boring, that kind of death-learning feeling, that kind of thing.

【ask】

This kind of person finds it uninteresting, so how do you usually learn it?

【answer】

I just feel that I should learn some first, and then explore it by myself. I just learn a section and then explore it by myself.

【ask】

Fumbling refers to taking what you have learned and trying to use it, to write some code, right?

【answer】

Yes, if you don't know how to do it yourself, just try it yourself, and if there is a problem in one piece, then take this problem with you, and then go to learn.

【ask】

Well, some people say that programmers are used to learning and doing, rather than saying that after they have finished their studies, they have completed their studies and then do it. Do you think this is the case for you?

【answer】

Oh yes, I think it is, in fact, once I learn it, I don’t want to go to school anymore, I always want to give it a try.

【ask】

Well, of course I get it, and then do you tend to be more self-taught, or do you prefer to learn by other means?

【answer】

other way. Well, if it's just that people can learn with them, I feel better that way.

【ask】

Well, you are working now, right? There will be a mentor at work, right?

【answer】

Yes, there will be a solution to the problem you encountered, and he will train me.

【ask】

Is there a situation where you have to learn by yourself?

【answer】

Is it necessary to self-study? Oh, there will be, like other small problems in some software, or some small modules, um, sometimes they will not teach it at this time, and then you need to learn it yourself, and then quickly master this skill,

【ask】

Um. Well, this question is probably like this, and then the main purpose of today's interview is that we want to describe a developer's learning journey, that is, we want to understand how a developer learns a technology, um, then just now Listening to what you said, I feel that the process you described may not be so detailed. You can, if you have something to add, you can add a little more.

【answer】

Well, this is nothing, I can't think of anything to say.

【ask】

In other words, if you have a comparison, do you have a more impressive learning experience, and then describe this as well. It is different from the one you just mentioned. You can repeat it again.

【answer】

Well, I have also learned another software. It is the beginning, because it is required for work, and then the person who leads it is to install the software for us initially, and then directly select it for us, and initially it is to introduce us. Take a look at this software, how he will use it in the future, its role, its function. The second is to introduce this interface, its specific function, and then each button, which is the attribute and function represented by each module. Then he will demonstrate first, he makes a thing. After that, let us go to the bottom to practice, that is, imitate his initial completion, and then take you to make a more complicated one. Later, he will talk about some more in-depth knowledge. At that time, it was the kind of splicing the two made into one. This is another function. After that, he will send us a document that is not particularly comprehensive, but is an introduction to some basic functions, and then let us consolidate it, and then he will take the entity of the concept of a model, let us do it, that is, all parts are It needs to be made, and then finally put all the pieces together, and then it takes a long time, and then it is the one that is ground step by step, and then finished. In the end, that's how the software was learned.

【ask】

This is someone taking it to learn, right? Learning with someone is not the same as self-study, because if a teacher teaches, there will be a lot of demonstrations. After the teacher's demonstration, do you encounter any difficulties when you go to practice?

【answer】

Because if the teacher brings it, he is not like that kind of pure document, that is, you may recall that when you were doing it at the time, you may have forgotten which step, or this part is not known. Ask you to do it, maybe you don't know which operation is wrong, and then there are some errors, then he can't tell you how to do it, and it can be corrected in time.

【ask】

What should we do at this time?

【answer】

At this time, I can only rely on myself to find some online, find some information through the engine, find some forums, and then see if there is anything similar, then go, or ask a question, and then solve one problem one by one, That's when you need to learn by yourself.

【ask】

Well, the question is to go to this kind of question and answer website to check it?

【ask】

Will there be a reply?

【answer】

Oh yes, not a lot.

【ask】

Well, do you think these replies will solve your problem?

【answer】

Okay, if I ask a question, what should I do to avoid this error when I do this operation, and then he will comment to me and tell me that if there is any more problem, I have to go to the post with that person myself Communicate below.

【ask】

Are those who answer the question all the more powerful titans?

【answer】

Basically, I also made a few friends, that is, most of the questions asked him can be solved for me.

【ask】

Oh, I probably got it, um, okay, so that's it for today's interview.