**P15**

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【ask】

Ok, this is the question just now, please recall your recent or previous experience of learning a certain tool software or technology, from hearing about this technology to actually learning how to use it to complete some development work, what is the whole process like.

【answer】

Well, one of the ones I've been using recently is one such feature that we're optimizing for our barcode scanning. Then, there is no such technology in the previous words, and then I found a framework of Google ML kit , which is open source. From Google's official website, I jumped directly to its GitHub , and then it has a relatively complete document description in github . Then, if it is explained through the document first, it can be regarded as the use and application scenario of this whole. One of its current ones is the processing ability. There is such a concept. Then, if it is matched, it has a demo, download his demo, and its demo itself is also open source. Some of its core operation codes are also reflected in the demo, so after running it first, you will find that it is suitable for our scene, just to scan a scene in this block, and then put the code in the demo. Put it into our project to use, and find that it can run. Then the following words are actually some perfection of some details. As far as the entire enterprise is concerned, it is very smooth, that is, from learning about the technology, to the introduction of its official website, to his open source GitHub, to its demo, the code is used, and the whole process is relatively smooth. .

【ask】

Well, you can divide the whole learning process into one stage, for example, you can divide it into the early, middle and late stages of learning, and then talk about one of your learning goals in each stage.

【answer】

Preliminary is feasible. Just rolled out a few projects, the latest here includes Google's ML kit , and then in the feasibility study, basically, all three are ok. Then you basically use it from the mid-term, just to see which one is easier to use, just mentioned ML kit , in several stages, including some documents he introduced from the official website to GitHub Some manifestations of that activity, when his code can be directly run and available, it will be smoother to use. Then, in the application phase, basically the ML kit is used. As far as the whole development of the user experience, including a feedback from the user, is also relatively good, I wonder if my description can meet your needs?

【ask】

Well, I can probably understand such a process, that is, in the early stage, it is equivalent to technical selection, that is, to roughly understand its basic functions, whether it is good or not, and so on. After deciding which one to use, just go to his documentation, read his introduction, um, and then do some demos to practice, right?

【answer】

right.

【ask】

OK, that is the process of reading his document, you should also be able to see some different types of documents, that is, in its official document, there should be many, many different types of documents, such as tutorials, or some conceptual types. Documentation, or documentation that describes functionality, can you categorize those documents? Then talk about what parts each category consists of.

【answer】

Well, as far as ML kit is concerned, its documentation, because I have some understanding of ML kit before , so I didn't go to see its documentation completely in this section. I found your article more practical. It corresponds to the M L kit itself, which is a relatively large set of frameworks. I only found the part of text recognition corresponding to it. Specifically, it is the part of code scanning recognition . Well, basically, because it has The directory, there will also be some definitions of the concept you mentioned in front of it, including its feature map , and then there will be his, that is, how to use that code, that is his ample .

Including how to install , how to simply run it for him, and then its results, its returned parameters, and its reference document. As far as I am concerned, it may be the middle piece, and then I may skip the introduction of some of the previous concepts. For the middle part, I think his writing is more concise and easier to understand.

【ask】

Well, the middle part is mainly to teach you how to do it step by step and to provide some examples , right?

【answer】

Yes, its install, its sample code, what its return value is probably like, and then the definition in that is basically this one I pay more attention to.

【ask】

Well, when you look at these samples, do you make some simple modifications based on the codes he gave?

【answer】

In fact, it will, because I want to make sure that his return value and my understanding are no problem.

【ask】

Hmm, do you think the samples provided by him are easy to use? was it useful to you?

【answer】

It is more helpful, because basically you can run it directly after taking it, and then after a simple modification, because the article is more likely, so after a simple modification, the result is also in line with my expectations. The time is relatively short, so there is no need to go to Google twice, or go to the issue to see it.

【ask】

That is to say, by looking at his sample, you can actually understand how to do it, right?

【answer】

Yes, it can be run .

【ask】

This is equivalent to doing some relatively simple exercises in the mid-term. Did you implement some more complex functions later ?

【answer】

Because it provides the basic ability to scan the code , but in fact, in terms of our core business, there are quite a lot of pre-image processing, including the subsequent processing of such results, so for its framework In terms of speaking, no changes have been made, but we have done some pre-processing and post-processing based on his ability in our business scenario.

【ask】

to do these processing related to business requirements?

【answer】

further understand its return value and its output parameters . Because of its parameters, we actually only used a part of it in the sample stage, just checked the results, but in fact, in its results, for example, for some different encoding formats, it returns the value, the specific point What to say, it has a display value and roll value , its roll The value actually covers some different return results in different encoding formats. If we are in the sample stage, we have not encountered these problems. we are building his roll The value of the value is actually a bit different from our expectations. If we go back to see his document, in fact, there is a further definition of this part in its reference. This is what we didn't see when we first looked at the document. of.

【ask】

That is to say, when you need to do some more complex functions later, you need to go back to see the more in-depth and detailed parts in his document?

【answer】

Yes, yes.

【ask】

The next question is, you are directly looking at the documents in his official website, right?

【answer】

um, yes.

【ask】

the official website , have you seen other types of documents?

【answer】

Because M L kit is relatively new on the whole, I tried to Google some technical documents in other blogs or some other places, but I feel that the benefits are not big, the main thing is still in the documentation on that official website . Because of the documentation on the official website , because it is open source, you may need to read its source code.

【ask】

Well, it means that you are actually more targeted at the beginning, so you just go to his official documents. Well, is there a process for searching for information?

【answer】

You mean some pre-input information about technology, because I am more concerned about that Google IO and W WW C , so you can think that this pre-input is some brainwashing of Google IO, because he will follow You talk about what further improvements M L kit has made, it can be considered as an official influence of him.

【ask】

That is to say, before you touch it, you have already learned about this technology from some other channels, and then you are a little moved by his promotion and advertisement.

【answer】

Yes, you can understand that.

【ask】

Well, that's right, it's not for the documentation of the example you mentioned, or for some documents that are commonly used in daily life. Apart from searching directly in the official documentation, do you have any other channels to get these documents?

【answer】

I usually pay more attention to some open source projects, so to obtain these documents, I basically search from GitHub, or from Google, basically these two channels are used.

【ask】

So can you tell me roughly how you searched? For example, if you search in GitHub or Google, how do you retrieve it? A few examples can be cited.

【answer】

For example, in the deepest interaction design of iOS, there is something similar to the drop-down layer and the slide-up layer . First, I will confirm a keyword of it. We may be in it, the general source code is called What drawer, or floated, I will take these keywords to Google or GitHub to search. In terms of priority, it may be a more perceptual judgment. For example, if I think this thing may be available on GitHub in general, I will give priority to searching on GitHub, so that the chain will be shorter. , then if I think this thing may be relatively new, or it may not necessarily be an open source project, it may just be some description of a technology, or some technical ideas, maybe I will throw it on Google to search, There are some methods like this.

【ask】

That is to say, your search actually has a habit of choice. If it is more related to technology and more related to open source projects, it will be searched in GitHub first, and then the other ones that are not too related will go to Google search right?

【answer】

correct.

【ask】

Is there any other way to get documentation besides this kind of search? For example, is there such a situation through sharing with others?

【answer】

If you are in the company or in that circle of friends, if you come across some relatively novel things, you may share some links, which may not necessarily be documents, but some news about some technologies, and then you will read them. Then I usually pay attention to some twitter, or there may be some big cows on it to release some such information, and then I pay attention.

【ask】

Okay , the next question is about one of your reading habits and reading methods, that is, after you found a document and opened it, how did you generally read it? How do you quickly locate the information you need?

【answer】

This may have something to do with my positioning of the article, that is, if it is a um, this kind of document or a more comprehensive technical document, maybe I will read it from beginning to end. Knowing the information, and then I may pay more attention to the implementation of his example, I may pick a specific part or even use a keyword to directly search for a certain part of this document, and then look at it.

【ask】

Well, that is to say, if the purpose is relatively strong, you can directly search for keywords to quickly locate it, and if you need a more comprehensive understanding, you should basically read the whole article from beginning to end, right?

【answer】

Yes.

【ask】

Hmm, did you encounter some problems in the process of using this document or in the development process, such as some bugs?

【answer】

Are you referring specifically to the project just now, or to the problems I encountered when I came into contact with these projects on a daily basis and then read the documentation?

【ask】

It's okay, it's okay.

【answer】

There will be, for example, looking at some relatively small open source projects, or a normal open source project, but superimposed on a changing operating system. For a recent example, it was two days ago. After upgrading the Apple operating system, there was actually an open-source software called hidden bar that failed. It is an open-source project. Well, but in this new operating system, there are some The compatibility issue, then I took a look at his project, including the source code, but I didn't find any useful information, so I went to his issue and looked at it, and that was actually mentioned in the issue. The new operating system, for some problems in the management of the status bar, I understand that this is actually the problem encountered when looking at his document or code, but it needs to go to some more social places in the issue to solve it.

【ask】

Well, the issue you are talking about is the issue in GitHub, right?

【answer】

right.

【ask】

Oh, if you mention it, will he have someone to reply? Can you reply to the person in charge of this project?

【answer】

The activity of different projects may not be the same. For some projects, there will be maintainers who will reply, but most of the projects I have encountered are developers like us who come in and find out how to solve them, and then reply.

【ask】

In addition to raising issues, do you have other situations that you need to solve yourself? For example, do you go to search engines or some Q&A communities to ask questions or search?

【answer】

These may be pre-existing, that is, if I encounter a problem, I may pre-exist and try to solve it myself, and then I may file an issue if it cannot be solved .

【ask】

Hmm, I see, can you roughly categorize these issues into several categories? For example, it can be divided into

Divided into that bug is the error error code error prompt or divided into ah, and some more.

It's good, it's these bugs, or features, or this kind of interaction. As far as I am concerned, the main thing is to mention bugs when raising issues. For those features , I may go to other branches of f olk by myself. Ah, or follow some projects, or you may change it in your own code, add it, but some that can't be solved may go to the issue for some help.

【ask】

That is to say, it is only when it cannot be solved that the issue will be raised, right?

【answer】

Yes.

【ask】

Well, okay, I have roughly understood a process of your learning, and then the next question is about the developer's documentation experience. We want to know what kind of documentation is good in the eyes of the developer. The developer documentation, that is to say, what kind of documentation you expect to use, you can define it yourself.

【answer】

Well, the first thing is to be beautiful. Well, this is the first sense of security when opening a document. If it is written from the beginning to the end of the 1 , 2 , or 14 characters, it must be a very pleasant experience to use. Difference. Then the second thing is that his content should be relatively substantial, including some descriptions of some of the concepts you just mentioned, and then the installation method in the middle, its sample code, the definition of some of its parameters , some detailed API introductions, and whether there is such a relatively complete demo, available samples, demos, and such that can be run . And whether this document has this kind of cooperation and co-construction method, can you collaborate and co-construct this document together? Some questions are raised in the document, and what form does it take to provide feedback? In general, the ones I may encounter on a daily basis basically meet such a standard. I think this is a relatively good document. Another word is some of the forms they talk about, because now I may use GitHub more, but in fact, these relatively mature technologies, she has some of these, such as Australian publishing houses that produce real objects. This way, or a more interactive way of this kind of APP. This may be what that yy came out of, and it may also be an expectation.

【ask】

The one you mentioned just now, in addition to this text version of the document, there are other types of ah, the way of interaction is similar to other types of documents Can you give an example, have you ever seen this kind of document?

【answer】

For example, when iOS was developed before, there was a program called zencode . It's been a long time, I'm not sure if the name is this, or the interaction design is integrated with this code, and then it's more beautiful in itself. Another thing is that when the I OS pushes the swift UI , it will take its documentation and its case, and then, in a very good way, make a tutorials , which is a wizard class, Then you can go and follow him, it's the way to scroll down the page, the interactivity is very good. Then type the keyword, swift UI. He will put his document and his code and his rendering result on the same page, and then have an interactive way to reflect it, and then I think this is a better one, but I think this may be It's not good enough, that is, it might be better to be able to do this in a more reactive way, but I personally still can't imagine it, I just said what I saw.

【ask】

Hmmmm, very good, I feel that you personally value the interactive experience of the document. Then you mentioned some other aspects, including its content, the design of its structure, the arrangement of content, and so on. Can you rank these dimensions , that is, content and organizational structure, and which interaction design is more important to you?

【answer】

Interaction design, I think it is the last one, I can accept it if it is the best or not. Then what did you say about the content structure?

【ask】

Maintenance, maintenance level, is a document update frequency, update speed.

【answer】

Maintenance may be the second, it is the kind of structure maintenance interaction, I think it may be like this.

【ask】

Well, well, well, then another dimension is the internationalization process, that is, some of the documents we have seen have Chinese documents and English documents. I want to ask you, you usually read more Chinese Or is it more English?

【answer】

The original texts of the main articles are all in English, so for the sake of accuracy, there is no way to read them. But in fact, if the quality of the Chinese translation and its timeliness can be guaranteed, because it is somewhat like that of the r Documents, generally Chinese documents are always behind a version of English documents, that is, if the timeliness and accuracy can be guaranteed, in fact, I think reading Chinese documents is more in line with the native language, but sometimes it does not. The way, we can only go to read English.

【ask】

Well, but now that you are reading English, there shouldn't be too many obstacles, right?

【answer】

Yes, it is acceptable, but in terms of speed, I understand that it may be slightly slower than Chinese in terms of acceptance, because there must be a translation process.

【ask】

Hmm, I get it. Okay, another question is about the developer's study habits and their work habits. What do you think are the characteristics of programmers' study habits and work habits?

【answer】

Programmers who have different study habits and work habits may not be the same. Like my words, they belong to that kind of comparison. Well, I will not completely separate work and study, but I will give myself, for example, 9 o’clock. At the beginning of the time, it may be to complete the work. The time before 9 o'clock and the time after 8 o'clock in the evening may be left to me to do some samples. project. I will combine practice and learning.

【ask】

Well, when you talk about combining practice and learning, you mean that you need to learn some new knowledge and technology when you are working, such as doing some projects, and then you will combine the two to learn by doing, right?

【answer】

Yes.

【ask】

Well, developers should be a group that needs to constantly and quickly learn new knowledge and new technologies. What is your personal feeling?

Oh, okay, then that part is okay, the questions in this part are not very important, then I will send you a questionnaire, you can fill it in the questionnaire, okay, um, I should send it to you last night You, take a look, just fill out that questionnaire.

Well, okay, okay, thank you very much, I'll transfer that test fee to you later.

Well, ok, ok, I'll share with you when there is progress.