

Krish (products.snowpal.com) (00:00.822)

Hey there, hope you're doing well. Welcome to Snowpal software development and architecture podcast. In this podcast, we're gonna take a quick look at one of Snowpal APIs, the Classroom API.

We offer a suite of APIs and we've captured a lot of them in these videos. We're going to do more of these to get into the details of each of these APIs. But in the first one, the idea is to skin the surface and let you know what the API is about, what value it brings to the table, and why you should actually integrate the API as opposed to having your backend teams rebuild and reinvent the wheel. The idea is to...

uh... give you the luxury of having your back in teams and i mean having a back in the if you don't have one but if you do have one

allowing you the luxury to use your backend teams to solving your co-customer problems and more importantly, not have them reinvent the wheel by rebuilding what's already out there, perhaps more robust than you might ever need, but still it's gonna save you a lot of time, risk, effort and money by integrating an API. So without further ado, let's actually get, take a quick look at this API, the Classroom API. I'm gonna share my screen. You can go to clas

com to check out the endpoints. But let me, you know, we have one of the products we have is a web application. You can go to snowpal.com or download it, download our mobile app and download the mobile app from the app and Play stores. I'm going to show you how we use some of these endpoints from the classroom API. I'm not going to go to the production version just so I cannot share production data as you can imagine. So I have the same app running locally. We have something called a student key. So you can actually go create a student

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let's say teacher and student key which is a classroom key so to speak. So I'm going to say math course

If I were a teacher, again, this is just an example of us using our APIs to represent it and providing a certain piece of functionality. Now, when you use it and build your React apps or Angular or Flutter app, whether it's web or mobile or a microservice, it's going to surely look very different because you're solving a different problem or maybe the same type of problem differently, but this should hopefully serve as an example. And when you go there, I can now go create a blog called, I said math, again, this is dev data that I'm creating right here,

grain of salt, signs 101, maybe this should actually now be renamed so it's not a math course, it's just courses or something like that because I have multiple courses, signs and math and I'm going to go to math and I'm going to pods, I'm going to say quiz one, maybe assignment 20. I mean you'll have better names in the real world.

but it's all right. Let's just go with what we have here. Okay, now I'm gonna actually share this with a couple of dev users. I'm gonna make one of them a student and then maybe I'll make another one a teacher.

We have an E-Seal API that you should check out to support this. You don't have to implement any of the security yourself. We have all of this available, you know, to solve, you know, cater to a number of your potential requirements. Okay, now that we have a student, I can go into a block and I can just say, and I pick a grading scale, grades A to F, and then I can go to the pod.

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I'll also pick the exact same grading scale. Now if I go back here, I see students, I see Parag as a student because I added that person as a student. Now I can add assignments, publish grades, and do the whole nine yards. Let's be long into the details of this here, but this is a piece of functionality that we support. If you're a tutor or a teacher teaching a few students, if you're at Starbucks teaching calculus to a group of students, how do you track those students?

how they are learning or you could be in middle school or high school in a larger organization.

If you want something simple and easy to use both on the web and mobile, on web and mobile, you can, you should certainly consider using our product, our platform. Or, you know, that's our, you know, web and mobile application. But the reason I showed that to you is all of this has been built using endpoints that we've made available here. Now this classroom maybe has a lot of other functionality. You can build the entire system using it, but we're going to keep our focus only to what's uniquely specific to this, you know, this API, because, you know,

the other items, signing up and creating content, it's really generic. I'll talk about it probably in a different video, but in this let's just talk classroom and teachers, sorry, classroom students and teachers. So we won't go into these end points, but these end points let you create custom scales to grade your students, collaborate with other teachers, create projects and assignments and assign grades, publish grades to students, compare student performances through charts.

compare your class performance and you know the whole nine yards essentially. We actually have support for most of it on our existing app but it'll take you know it's going to take time for me to create all of this content and show that unit that's not the purpose of this video the purpose of this video is to socialize API and what the API actually how powerful it is and what all it actually will let you do. So let's just you know just so we don't forget let's go

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done classroom API at the highest level it's basically teachers and then oops

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Students.

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Okay, teachers can collaborate with other teachers.

Krish (products.snowpal.com) (06:18.032)
Oops.

Krish (products.snowpal.com) (06:24.91)
Take that as just collaboration.

Krish (products.snowpal.com) (06:31.722)
Actually we can make this a solid arrow.

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Okay, now that can be, you create a class, you have a number of students, and you can assign, let's say,

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Let's do this first. What does the teacher do? The teacher creates assessments. Actually before assessments, the teacher creates courses, course or courses, create assessments.

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but collaborate.

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with other teachers. There's a number of things the teacher can do here, but let's just say it's good enough for now for what we're trying to document here. And this, wait, hang on, actually there's publish, actually assign, create custom.

grading scales, because it could be satisfactory, unsatisfactory, or it could be A, B, C, D, E, or it could be A minus, A plus, B minus, B plus, like we have it in the US, so it just depends on what your custom scales are gonna look like. Given that different countries and different schooling systems, education boards do it differently, we have the ability to create custom scales, grading scales, and then you can assign grades.

publish grades so it meets it available to students. And now from a student standpoint, you can submit, see all your courses, submit assessments, whether it's projects, quizzes, whatnot, review grades, ask...

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questions to your teachers. You know, you can again, teachers and students can message each other through our messaging endpoints, but that captures the high level gist of it. Now, if you go into the APIs and the endpoints, you'll see that you can do bulk assessments. You can compare, at least we should say, review student performance.

So a single student performance across different assessments or review class performances.

So all students in a class, for instance, you know, and this is presented, you can present this as a chat or a report or however you wanna do it. So that's the idea behind this API and endpoints. I showed you some example here in terms of functionality. You can dig deeper and look into it and we'll do more videos as well. You can go to dev if you're a product owner or product manager, this might be a good place for you to start socializing with our documentation before you go to Postman or if you prefer to start with Postman,

like most developers do, that's fine as well. To subscribe to the API, you can go to aws.snowpal.com, go to Classroom API, three clicks later, you'll have the API key and the product code, and you can pay by request or pay by subscription, monthly or annual, to start consuming this API. Now, we also provide SDKs, so you can actually go to package.go.dev because we have our SDKs available in Golang at this point,

reading more this year in other languages to support other platforms as well. Last but not least, prod and then if you go to our documentation, that's another variation of documentation, our articles, our podcasts, there's a single place you can subscribe to the newsletter to keep up to date with not just technologies that we use, but also technologies that we don't actually use at this point. And you can keep up to date with things happening in our ecosystem. Go to API,

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these articles here. Now from a licensing side, you know, if you want to purchase the subscription through AWS Marketplace, you can do that. Or if you want us to provision these APIs in your infrastructure, we are happy to do that. Whether it's AWS Market, whether it's on AWS or Google Cloud or Azure, that's completely all right too. Even other customers, you know, the larger you are, you might say, you know what, I actually, there's

second one you might say hey it's okay for it to be running in your infrastructure but point to my database

easily, very easily doable. The fourth variation is you're saying, hey, you know what? We like the functionality, but we don't want to actually use infrastructure at all. We want complete control over proceedings, and we'll probably run it in our data center or our cloud infrastructure. But we just need a license that we want to purchase. That's totally fine. You can purchase the license and then upgrade licenses, so you get the bug fixes, enhancements, and features. So how you kind of collaborate or partner, it's entirely up to you. We can even create a private offer on AWS Marketplace

these APIs available to you. So take your pick based on what works best for you. If you're a smaller startup or in solo printer, the easiest thing for you to do is just do it all self-serve and go get the API key and the product code and start integrating the APIs. So within the first hour or so, you'll actually be able to understand what these end points are, what the APIs is, and how you can actually start building your functionality using those APIs.

it for the Classroom API. Talk to you soon. Thanks.