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Test mace ide

Hello, this is test mace! Maybe you knew about us from our previous articles. For those who have just joined us: we're working on Testmace – an IDE for API design. How are you different from Postman? This is the most common question while comparing TestMace to other similar products. It feels like the time we gave a detailed answer to that. You can see all benefits of our product below. Nodes If you are using Postman, you should be aware that the interface of a request has all necessary features. You can see scripts, tests, and requests there. This makes things easier for new users, but in more complex scenarios, this approach isn't flexible enough. What if you need to create some requests and merge them? What if you want to run a script without creating a request or multiple logically separated scripts? At least you definitely want to separate tests from basic utility scripts. Plus, the all-in-one node approach is inaccessible as the interface quickly gets too heavy. TestMace initially separates functions among nodes of different type. Do you want to send a request? A request step node is here for you. Want to write a script? Use a script node for it. Need tests? An assertion node, here you go. By the way, you can also wrap it all in a folder node or easily combine from the nodes. This approach is not only more flexible, but also according to the single responsibility principle, it can only use those features necessary for a specific task. Obviously, you don't need scripts and tests to send a request. Human-readable format of projects There is an important conceptual distinction between TestMace and Postman regarding data storage format. Postman stores requests somewhere in your local storage. If you want to share your requests with other users, you'll need to use built-in synchronization. In fact, it's a very common approach, which has its own shortcomings. And what about data security? Some companies' privacy policies may not allow to share personal data with third parties. We believe, TestMace can provide a better solution here, and it's called human-readable project format. First, TestMace has such an entity as Project. The application itself was developed with the ability to store projects in version control systems in mind: the project tree almost completely reflects the file structure, for storing files we use the YAML format (no extra brackets and commas), and each node's file representation is given in the documentation in detail. However, in most cases, you don't have to refer to it because of logical field names. How can you benefit from that? You can change your team workflow in a very flexible way by using all common approaches for it. For example, developers can in the same repository as backend storage. As for branches, apart from changing the code code a developer can also correct existing request scenarios and tests. After committing changes in your repository (git, svn, mercury, whatever you want more) your favorite CI runs our console utility - testmace-cli, and the report received (which can, for example, be in the junit format, which is also supported by testmace-cli) is sent to the corresponding system. Thus, the above data security problem is no longer a problem. As you see, TestMace does not impose its ecosystem and paradigm. It easily adapts to already work processes. Dynamic variables TestMace follows the no-code concept: if a problem can be solved without coding, we're trying to give you this opportunity. Well, working with variables usually doesn't require you to write code. For example, we have received a response from the server and want to save part of it in a variable. In Postman, we'll write something like this in a test script (which is kind of odd): `var jsonData = JSON.parse(responseBody); postman.setEnvironmentVariable(data, CryptoJS.MD5(jsonData.data));` TestMace has a script node for this scenario. To do the same in TestMace, we must send a request and create a script node using the following code for a script: `const data = tm.currentNode.prev.response.body.data; tm.currentNode.parent.setDynamicVar('data', crypto.MD5(data));` As you see, nodes combination works well in this case. For this simple scenario, you can only assign the `$(crypto.MD5($response.data))` expression to the variable you create using the graphical user interface. Creating tests via GUI Postman can create tests by writing scripts (in JavaScript). This approach seems to have no drawbacks: almost unlimited flexibility, ready-to-go solutions, etc. But life is life and in fact, QA engineers often have no programming skills, but they would like to be helpful. In this case, TestMace suggests following the no-code concept and creating simple tests via GUI without writing scripts. Let's create a test that verifies whether some values are equal. However, this is what it looks like in TestMace: However, you still have an option to write your tests on your own. There are the same libraries as in a script node and chai for the tests. Run existing scenario via Link (Link Node) Often you may need to run a request even a request scenario several times in different parts of the project. For example, a custom multi-step authorization, setup environment, etc. In terms of programming languages, we need to have some functions, which can be reused in different parts of the application. There is the link node type in TestMace for this purpose. It is very easy to use it: create a request or scenario; create a link node; sets a link to the request or scenario created in step 1. In more complex case, you can specify which dynamic variables to be transferred to the above link level. Sounds confusing? Imagine creating a folder node named create mail and assigning it to the postId variable. Now in the create-post-link node, you can explicitly assign the parent of create-post-link to postId. This mechanism (again, in terms of programming) can be used for returning the result of a function. Large! DRY into action, and no changes in the code. As for Postman, a feature request about reuse requests from 2015 was there, and there seem to be some implications, that they're working on it. Now you can change the execution flow in Postman, that, in theory, allows you to achieve this behavior, but it's rather a dirty hack, than a working approach. Other differences More control over variables scope. The smallest scope where you can define a variable in Postman is the collection scope. TestMace allows defining variables for any request or directory. Postman's Share collection only lets collections execute, while in Test Day sharing works for any node TestMace supports heredition headers, that by default can be inserted into child requests. Postman has a problem about it, and it's already closed, but the solution is... to use scripts. In TestMace, everything is configured via GUI and there is an option to undo headlines inheritance in certain children/Redo. It works not only while editing nodes, but also while moving, removing, renaming and other actions, What changes the project structure The files you attach to your requests are part of

the project and are stored with other project files and sync well (compared to Postman), so you don't have to choose all necessary files tutorial every time and share their archives with your colleagues more We couldn't resist the temptation to spill the beans on our next releases, especially on these new powerful features, which are tested at the moment. So, here they are. Features as you know, for values generation Postman has so-called dynamic variables. The list of those variables is very impressive, and the majority of features are used to generate false values. For example, to generate a random email, you must {{ \$randomEmail }} Since these are variables (even if they're dynamic), they can't be used as functions - they're not parametrizable, so you won't be able to get a hash a string. We plan to add real features to TestMace. You'll be able to access a variable and a function within \$. To generate a fake email, you just have to write: \${faker.internet.email()} This is a function, and you can see that you can now call a method of the object. Instead of a long flat list of dynamic variables we have a set of logically grouped objects. And how to calculate a hash of a string? Easy! \${crypto.md5(\$dynamicVar.data)} See, you can even pass variables as parameters! At this point, you can suspect something wrong ... Using JavaScript in expressions... That's right! When we thought about features requirements, we suddenly realized that we should allow users to use valid JavaScript in their expressions. So now you can write something like this: \$1 + " " + crypto.md5("asdf")} Do it right in edit fields, no scripts required! As for Postman, you can only use variables, and if you try to write an expression of some kind, the validator will give an alert and refuse to execute them. Advanced autocompleteness For now, TestMace is equipped with a standard autocomplete function: As you see, there's a possible line along with what it refers to. This mechanism only works for expressions in \$ arms. Note the visual markers for variable types (e.g. string, number, array, etc. You can also switch between multiple autocomplete modes (for example, you can choose variables or headers autocomplete). That's not the most important thing though! First, the autocomplete function even works for expressions (wherever it is possible). Here's how it seems: Secondly, it's now also available in scripts. Just look at it! There's no point comparing it to Postman. There you'll only find autofolding of static variable lists, headers, and their values. I may have forgotten something. It doesn't work for scripts :(Conclusion In October we celebrated a year of working on our product. We were able to do a lot of things and, at one point, catch our competitors. In any case, our goal is to create a very powerful tool for API development. There's still a lot of work to be done. Here's our rough plan for the next year: . Your feedback will allow us to work harder on new features, and your support empowers us and makes us believe we are useful. Today is a very important day for our project. Today we place TestMace on ProductHunt. We ask you to support our product, it is very important to us. Oh yes, we have an attractive limited time offer for you on our PH page! Also TestMace team has a cool offer for our followers: Read more on our website testmace.com

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