

MERN Stack Assignment 3

1. What features does Swagger offer?

Ans.

Swagger is an open source set of rules, specifications and tools for developing and describing RESTful APIs. It provides a variety of open source tools for APIs with different features.

- It enables developers to write documentation for, design and describe new APIs as well as edit existing ones with Swagger Editor.
- It supports creation of API libraries in over 40 languages.
- With the help of Swagger UI it helps to generate interactive and easily testable documentation for various platforms. It can be hosted in any environment.
- APIs can be easily validated without limits and results are automatically saved and accessed in the cloud with the use of Swagger Inspector.
- It helps to automate API-related processes.

2. How does API testing benefit you?

Ans.

- **Saves Time** - Through API testing services testers save time because API testing always takes lesser time as compared to GUI functional testing.
- **No dependency on programming language** - During API testing exchange of data takes place using XML or JSON. So in order to perform activity the testing team is free to select any core language.
- **Earlier identification of bugs** - This is one of the main benefits because it increases the productivity of the application by saving cost and time both.
- **Access Without UI** - Advantage of API testing is having access to applications without UI or user interaction with the system. It provides testers early insight into defects and errors so that developers can resolve the issue before they impact GUI.

3. How do we include an API in Swagger?

Ans.

- Goto Swagger Inspector, and insert the endpoint of the resource that you want to have documented.
- Then navigate to the right panel from the History section of Swagger Inspector, and click "Create API Definition" to create OAS definition.
- You can even select multiple end points and consolidate their documentation in one single OpenAPI file through a Collection.
- You can host the generated OpenAPI file on Swagger Hub.
- You can easily access all your tests in your history, anywhere at any time, and also generate the corresponding OpenApi specification with the click of a button in Inspector.

4. In Swagger UI, how can we submit custom headers with requests?

Ans.

If there is some custom header parameter which need to be sent with requests, then it can be sent by using the headers like this:

```
swaggerUi.api.clientAuthorizations.add(  
  "key",  
  new SwaggerClient.ApiKeyAuthorization("Authorization", "XXXX", "header")  
);
```

We can also pass multiple header parameters on a single request, just by using unique (key) names.

5. How should we use Swagger to produce static docs?

Ans.

Steps to produce static html files in a zip file

- Go to: <https://editor.swagger.io>.
- Click on "File" in the top menu bar and then select "Import File".
- After import, click on "Generate Client" in the top menu bar, and then select "HTML" or "HTML2" to generate static HTML documentation.