**MERN Stack Assignment 3**

1. What features does Swagger offer?

* Swagger is Open source and free to use.
* Swagger uses Open API spec standard to define API’s structure in either JSON or YAML format which can be used in any programming language.
* Swagger provides Swagger UI to test the API’s and as well as to provide visual documentation of API’s.
* Swagger provides Swagger Editor using which we can easily generate Open API spec file in YAML or JSON.
* Swagger provides Swagger CodeGen which generates the server side stubs and client-side code using Open API Spec file in any programming language.
* It helps in faster API development.
* Swagger can be used along with any programming language as it is language agnostic.

1. How does API testing benefit you?

API testing helps us to validate the application robustness, security and logic errors even before the application is deployed along with UI.

It saves a lot of time as API testing takes very less time as compared to GUI testing.

No dependency on programming language as API testing uses XML o JSON for data exchange.

We can easily identify the bugs at the earlier stage itself which saves lots of efforts.

1. How do we include an API in Swagger?

We include an API in swagger using the OPEN API spec file in which we define API using the paths.

Each path is an API endpoint, we also provide the description and responses of API on different requests like get, post put, delete etc which gives more info about each API and what it does.

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

We can submit custom headers with reauests by add ing small config to the Open API spec file under “parameters” of request like below:

parameters:

- name: auth

in: header

description: an authorization header

required: true

type: string

This will make the Swagger UI to create a drop down for header input in which you can send your custom header along with the request.

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

We can use Swagger to produce static Docs in two ways:

* **Using Swagger Editor** 
  + Copy your YAML or Json spec file into swagger editor and click on generate client and select html2 it will download the static doc
* **Using Swagger CodeGen**
  + You can run the following command with spec file name to generate static doc
  + swagger-codegen generate -i <path to your swagger file> -l html2 -o <path to output location>