09 Sat | **May** 2020 | **08:45 PM**

UTC+4

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Tradeling.com

Building Open Source Developer Tool

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ERP GO

kiss-conf

2 days, 13 speakers

Keep it stupid simple

https://kiss-conf.goupaz.com

Kiss.Conf 2020

Host: Nabi Nabizade

Tauqeer Nasir

Love sharing knowledge and open source

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Education
      BS(CS): GC University, Faisalabad, Pakistan

Experience
      Current :
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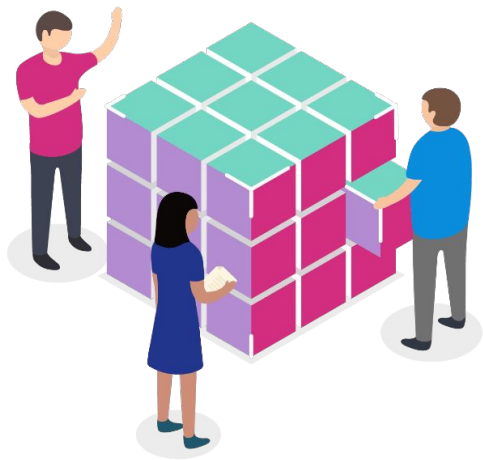
Agenda?

- Why should you contribute?

- Where to start and how to take the very first step?

- We are working on a DevTool! Let's have a look together.

- Future plans for the DevTool.

- How can you contribute to this?

- Q&A

Why should you contribute?

- Improve Coding Skills
- Gain Early Experience
- Increase Community and Peer Recognition
- Greater Job Prospects
- Improve Software on a User and Business Level

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Where to start & how to take the very first step?

- First step is always difficult
- Always start small in the beginning
- Improve documentation of existing projects
- Find and fix small reported issues
- Provide feedback or send feature requests
- Share your ideas

We are here to help, join our community and grow your skill set.

We are working on a DevTool!
Let's take a look together

TSSG
The Swagger Schema Generator

https://tauqeernasir.github.io/tssg-editor

- Shorter Syntax
- More readable
- Easy to maintain
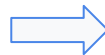- Configurable
- Modular

TSSG to OpenAPI

```
// TSSG Synax
{
    name: string,
    email: !string,
    age: number,
    address: {
        city: string,
        country: !string,
    }
}
```

```
// JSON Output
{
  "type": "object",
  "required": ["email"],
  "properties": {
    "name": {
      "type": "string"
    },
    "email": {
      "type": "string"
    },
    "age": {
      "type": "number"
    },
    address: {
      "type": "object",
      "required": ["country"]
      "properties": {
        "city": {
          "type": "string"
        },
        "country": {
          "type": "string"
        },
      }
    }
  }
}
```
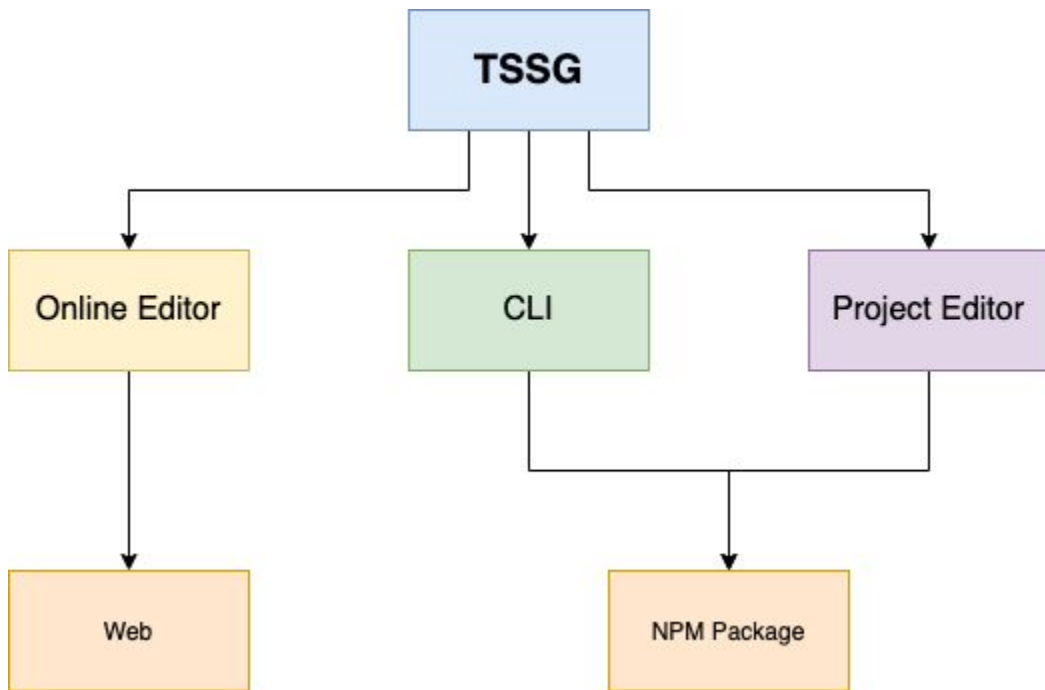
Demo of the tssg-editor (PoC)

https://tauqeernasir.github.io/tssg-editor

Future Plans

TSSG-CLI

```
# Commands that allows in generating/editing different components of OAS
# Generate Schema
$ tssg gen schema V1User


# Edit Schema
$ tssg edit schema V1User


# Generate Path Def
$ tssg gen path /get-user


# Edit Path Def
$ tssg edit path /get-user
```

Next Version Of Syntax

```
Schemas {

  V1User {
    name: string, //
    age: number,
  }


  V1Employee extends V1User {
    salary: int64,
    department: string,
  }

}
```

```
RequestBodies {

  V1GetUser {
    _id: string,
  }

  V1UpdateUser {
    _id: !string,
    payload: {
        name: string,
        age: integer,
        email: string,
    }
  }

}
```

Next Version Of Syntax

```
Paths {
  /v1-get-user (user) {

    post {
        description: "description goes here",
        requestBody: @RequestBodies.V1GetUser,
        responses: {
          200 {
            content(application/json): [@Schemas.V1User]
            content(text/plain): string
          }
          400 {
            content(application/json): Schemas.V1Error404
          }
        }
    }

    get {
        description: "description goes here",
        requestBody: requestBody@V1GetUser,
        responses: {
          200: {
            description: "",
            content(application/json): @Schemas.ArrayOfUsers
            content(text/plain): string,
          }
        }
    }
  }
}
```

```
Paths {
  /v1-get-user (user) {

    post {
        description: "description goes here",
        requestBody: @RequestBodies.V1GetUser,
        responses: {
          200 {
            content(application/json): [@Schemas.V1User]
            content(text/plain): string
          }
          400 {
            content(application/json): Schemas.V1Error404
          }
        }
    }
  }
```
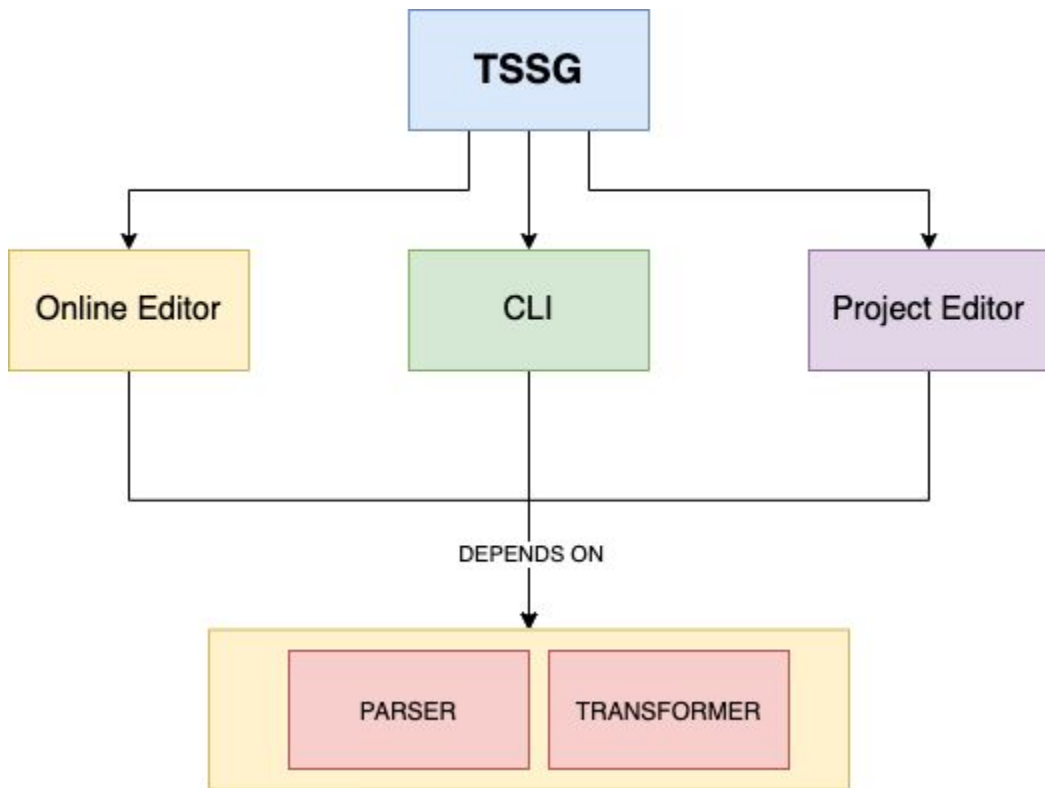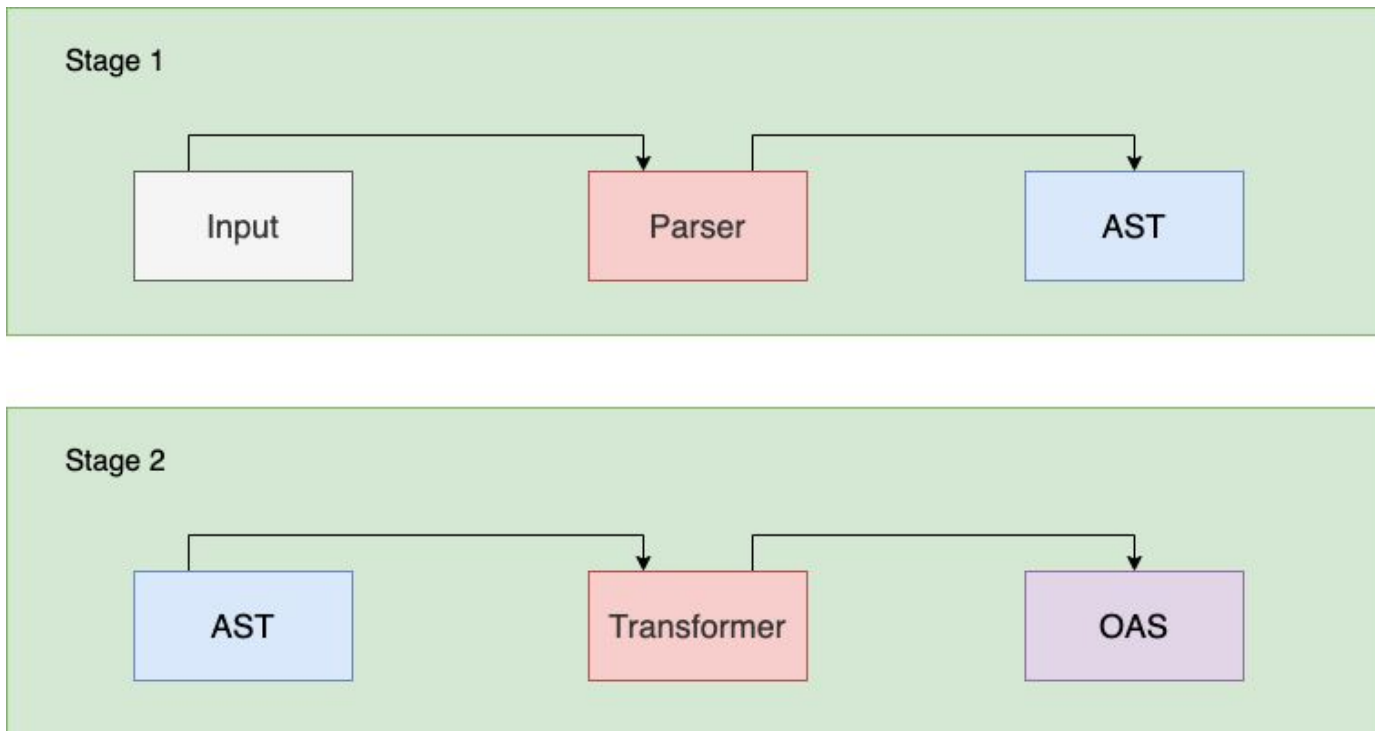
How you can contribute?

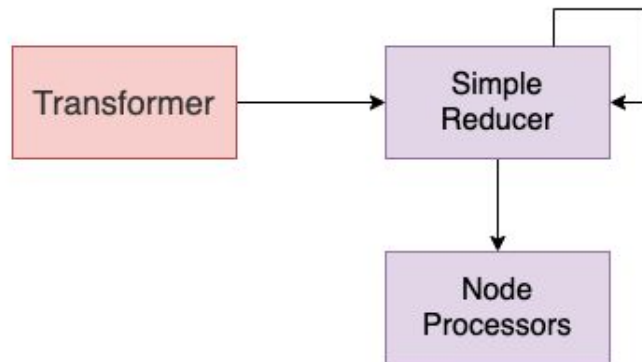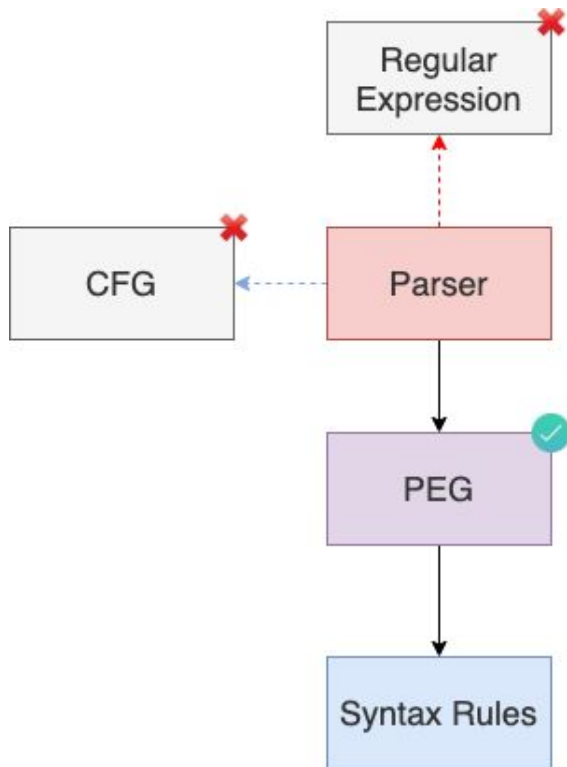First, Let's have a quick deeper dive to understand how it works under the hood.

Under the hood

Under the hood

Under the hood

Q&A Discussion

Link to Q&A Panel: https://bit.ly/2KyViHb