Installation

- npm install
- npm start
- Please make sure mongodb instance in running in the port 27017 or update the same in src/app.ts file.
- Postman collection included in directory folder.

Answer :

First we can add teacher with end point **: localhost:3000/teacher/**
This url using method POST

Example data params:
```
{
    "reviewerId" : "321",
    "teacherName" : "Nicola Tesla"
}
```

Success response:
```
{
    "newTeacher": {
        "_id": "6102bcacdaf3850ff41e82f3",
        "reviewerId": 321,
        "teacherName": "Nicola Tesla",
        "createdAt": "2021-07-29T14:35:24.726Z",
        "updatedAt": "2021-07-29T14:35:24.726Z"
    }
}
```

Error response:
```
"ValidationError: "teacherName" is required"
```

Second we can add student with end point **: localhost:3000/student/**
This url using method POST

Example data params:
```
{
    "studentId" : "123",
    "studentName" : "Kikik Dev"
}
```

Success response:

```json
{
    "newStudent": {
        "_id": "6102bcfcdaf3850ff41e82f5",
        "studentId": 123,
        "studentName": "Kikik Dev",
        "createdAt": "2021-07-29T14:36:44.495Z",
        "updatedAt": "2021-07-29T14:36:44.495Z"
    }
}
```

Error response:

```
"ValidationError: "studentName" is required"
```

Teacher can submit an challenge for student with end point **: localhost:3000/challenge/**
This url using method POST

Example data params:

```json
{
    "challengeId" : "456",
    "studentId" : "123",
    "reviewerId" : "321",
    "description" : "Who is the president of the United States ?"
}
```

Success response:

```json
{
    "newChallenge": {
        "_id": "6102ab2adaf3850ff41e82e5",
        "challengeId": 456,
        "studentId": 123,
        "reviewerId": 321,
        "description": "Who is the president of the United States ?",
        "createdAt": "2021-07-29T13:20:42.084Z",
        "updatedAt": "2021-07-29T13:20:42.084Z"
    }
}
```

Error response:

```
"ValidationError: "challengeId" is required"
```

After that, student can search all challenge by studentId with end point :
localhost:3000/challenge/123
This url using method GET

Success response:

```json
[
    {
        "_id": "610136b8c0d88e36f07c0c96",
        "challengeId": 456,
        "studentId": 123,
        "reviewerId": 321,
        "description": "Who is the president of the Singapore ?",
        "createdAt": "2021-07-28T10:51:36.428Z",
        "updatedAt": "2021-07-28T15:26:02.056Z"
    },
    {
        "_id": "6102a9d3daf3850ff41e82e1",
        "challengeId": 457,
        "studentId": 123,
        "reviewerId": 321,
        "description": "Who is the president of the United States ?",
        "createdAt": "2021-07-29T13:14:59.475Z",
        "updatedAt": "2021-07-29T13:14:59.475Z"
    }
]
```

Student can submit an assignment with end point : **localhost:3000/completion/ This url using method POST**

Example data params:

```json
{
    "challengeId" : "456",
    "studentId" : "123",
    "solution" : "Joe Biden is the 46th and current president of the United States"
}
```

Success response:

```json
{
    "newCompletion": {
        "_id": "6102ac41daf3850ff41e82e9",
        "challengeId": 456,
        "studentId": 123,
        "solution": "Joe Biden is the 46th and current president of the United States",
        "createdAt": "2021-07-29T13:25:21.437Z",
        "updatedAt": "2021-07-29T13:25:21.437Z"
    }
}
```

Error response:

"ValidationError: "solution" is not allowed to be empty"

Teacher can find assignments ready for review with end point :
localhost:3000/completion/
This url using method GET

Success response:

```
[
    {
        "_id": "61017dc9dc0b232cd83451aa",
        "challengeId": 456,
        "studentId": 123,
        "solution": "Joe Biden is the 46th and current president of the United States",
        "createdAt": "2021-07-28T15:54:49.402Z",
        "updatedAt": "2021-07-28T15:54:49.402Z"
    }
]
```

After teacher find an assignment, teacher can submit an review with end point :
localhost:3000/review/
This url using method POST

Example data params:

```
{
    "challengeId" : "456",
    "studentId" : "123",
    "grade" : "1",
    "comment" : "Good job, your answer is correct."
}
```

Success response:

```
{
    "newReview": {
        "_id": "6102bb4adaf3850ff41e82ee",
        "challengeId": 456,
        "studentId": 123,
        "grade": 1,
        "comment": "Good job, your answer is correct.",
        "createdAt": "2021-07-29T14:29:30.417Z",
        "updatedAt": "2021-07-29T14:29:30.417Z"
    }
}
```

Error response:
"ValidationError: "grade" must be a number"

The last student can see the graded assignments with end point :
localhost:3000/review/123
This url using method GET

Success response:

```
[
    {
        "_id": "610193f19f523210a4357588",
        "challengeId": 456,
        "studentId": 123,
        "grade": 1,
        "comment": "Good job, your answer is correct.",
        "createdAt": "2021-07-28T17:29:21.027Z",
        "updatedAt": "2021-07-28T17:29:21.027Z"
    }
]
```