```
In [1]: import requests
        import json
```

1. Get Request To get All List of Questions

```
In [4]: url = "http://localhost:8000/quiz/1"
        content = requests.get('http://localhost:8000/quiz/1')  #  1 for math , 2 for language ( lesson instance )
```

```
In [5]: json_obj = json.loads(content.content)
        print(json.dumps(json_obj,indent=1))
```

```
{
 "id": 1,
 "text": "math",
 "question": [
  {
   "id": 1,
   "text": "What is 2 + 2 ?",
   "choices": [
    {
     "id": 1,
     "text": "4"
    },
    {
     "id": 2,
     "text": "5"
    },
    {
     "id": 3,
     "text": "6"
    }
   ]
  },
  {
   "id": 2,
   "text": "Which of the followings are true ?",
   "choices": [
    {
     "id": 4,
     "text": "2 + 2 = 4"
    },
    {
     "id": 5,
     "text": "2 x 5 = 10"
    },
    {
     "id": 6,
     "text": "2 + 3 = 10"
    }
   ]
  },
  {
   "id": 3,
   "text": "What is 2 x 3 ?",
   "choices": [
    {
     "id": 7,
     "text": "8"
    },
    {
     "id": 8,
     "text": "6"
    },
    {
     "id": 9,
     "text": "10"
    }
   ]
  },
  {
   "id": 4,
   "text": "Which of the followings are false ?",
   "choices": [
    {
     "id": 10,
     "text": "6-4 = 2"
    },
    {
     "id": 11,
     "text": "4 x 1 = 4"
    },
    {
     "id": 12,
     "text": "4 + 4 = 16"
    }
   ]
  }
 ]
}
```

- Users Credentials :
- test_1 = number_one
- test_2 = number_two
- test_3 = numberthree
- test_4 = number_four
- test_5 = number_five

2. Send Valid JSON

Use this data format when sending to API

```
In [17]:  #1. Scheme 1 : All Questions are answered

          data_to_send = {
              'username' : 'test_3',
              'password':'numberthree',
              'lesson_id':1,
              'question_id':[1,2,3,4], # list of integer
              'answer_id':[[1],[4,5],[8],[12]]  # list of list of integers
          }

          data_json = json.dumps(data_to_send)

          url = "http://localhost:8000/quiz/scoring"
          headers = {'content-type':'application/json'}

          send_answer = requests.post(url=url,data=data_json,headers=headers)
          print(send_answer)
          print(send_answer.json())

          <Response [200]>
          {'user': 4, 'lesson': 1, 'score': 100.0}

In [18]:  #2. Scheme 2 : Some Answers are left blank

          data_to_send = {
              'username' : 'test_2',
              'password':'number_two',
              'lesson_id':1,
              'question_id':[1,2,3,4], # list of integer
              'answer_id':[[1],[8]]  # list of list of integers
          }

          data_json = json.dumps(data_to_send)

          url = "http://localhost:8000/quiz/scoring"
          headers = {'content-type':'application/json'}

          send_answer = requests.post(url=url,data=data_json,headers=headers)
          print(send_answer)
          print(send_answer.json())

          <Response [200]>
          {'user': 3, 'lesson': 1, 'score': 25.0}
```

3. SEND INVALID JSON

```
In [19]:  #1. Scheme 1 : Invalid authentication

          data_to_send = {
              'username' : 'test_2',
              'password':'number_four',
              'lesson_id':1,
              'question_id':[1,2,3,4], # list of integer
              'answer_id':[[1],[8]]  # list of list of integers
          }

          data_json = json.dumps(data_to_send)

          url = "http://localhost:8000/quiz/scoring"
          headers = {'content-type':'application/json'}

          send_answer = requests.post(url=url,data=data_json,headers=headers)
          print(send_answer)
          print(send_answer.json())

          <Response [200]>
          {'non_field_errors': ['Invalid username and or password']}

In [20]:  #2. Scheme 2 : Invalid lesson ID ( currently only 2 lesson id available )

          data_to_send = {
              'username' : 'test_2',
              'password':'number_two',
              'lesson_id':3,
              'question_id':[1,2,3,4], # list of integer
              'answer_id':[[1],[8]]  # list of list of integers
          }

          data_json = json.dumps(data_to_send)

          url = "http://localhost:8000/quiz/scoring"
          headers = {'content-type':'application/json'}

          send_answer = requests.post(url=url,data=data_json,headers=headers)
          print(send_answer)
          print(send_answer.json())

          <Response [200]>
          {'non_field_errors': ['Wrong lesson ID']}

In [8]:   #3. Scheme 3 : Invalid question ID ( question ID number 6 belongs to lesson 2 ( language ) and not math )

          data_to_send = {
              'username' : 'test_2',
              'password':'number_two',
              'lesson_id':1,
              'question_id':[1,2,3,6], # list of integer
              'answer_id':[[1],[8]]  # list of list of integers
          }

          data_json = json.dumps(data_to_send)

          url = "http://localhost:8000/quiz/scoring"
          headers = {'content-type':'application/json'}

          send_answer = requests.post(url=url,data=data_json,headers=headers)
          print(send_answer)
          print(send_answer.json())

          <Response [200]>
          {'non_field_errors': ['Invalid Question ID, please check your ID and make sure it is exists!']}
```

```
In [21]: #3. Scheme 4 : Invalid answer (wrong format - one of them is not list )

         data_to_send = {
             'username' : 'test_2',
             'password':'number_two',
             'lesson_id':1,
             'question_id':[1,2,3,6], # list of integer
             'answer_id':[1,[4,5],[8],[12]]  # list of list of integers
         }

         data_json = json.dumps(data_to_send)

         url = "http://localhost:8000/quiz/scoring"
         headers = {'content-type':'application/json'}


         send_answer = requests.post(url=url,data=data_json,headers=headers)
         print(send_answer)
         print(send_answer.json())

         <Response [200]>
         {'answer_id': {'0': ['Expected a list of items but got type "int".']}}
```

4. SHOW SOME STATISTICS

```
In [22]: url = "http://localhost:8000/statistics"
         resp = requests.get(url)
         json_object = json.loads(resp.content)
         print(json.dumps(json_object,indent=1))

         {
          "no_of_problems": 8,
          "no_of_registered_users": 7,
          "no_of_users_who_submit": 5,
          "no_of_submissions": 7,
          "average_score": 75.0
         }
```

```
In [ ]:
```