

Integration Testing

Integration tests are another important aspect with the testing that we perform here. Frontend and backend development come together at an integration point and testing this layer is a part of the testing pyramid that is essential in ensuring good test coverage.

Your Assignment

Create automated tests that cover the following JSON responses from an endpoint call.

Based upon the information provided, develop automated tests using the following criteria;

- Write the tests in an object-oriented language.
 - Commit your code to a repository so that it can be reviewed.
1. Based upon the following response - [Student Class Response](#), develop tests that will validate the following;
 - a. Student/s Name
 - b. Student/s Email
 - c. Student/s GPA
 - d. Student/s Courses
 2. Provided below is another JSON response, develop tests that validate each of the returned fields for assessment_id: 202089
 - a. The assignment_id of the assessment.
 3. Using the same JSON response below, develop rainy day tests for the following;
 - a. assessment_title
 - b. assessment_type
 - c. district_id

JSON Response

```
{
  "data": {
    "AssessmentSearch": [
      {
        "assessment_id": 264428,
        "assessment_title": "Behavior - Social Development 3-5",
        "assessment_type": 3,
        "district_id": 85623,
        "grading_scale_id": 751,
        "__typename": "AssessmentSearch"
      },
      {
```

```
"assessment_id": 315330,
"assessment_title": "Rubric - 6/4/20",
"assessment_type": 3,
"district_id": 85623,
"grading_scale_id": 751,
"__typename": "AssessmentSearch"
},
{
  "assessment_id": 315503,
  "assessment_title": "Rubric - 6/18/20",
  "assessment_type": 3,
  "district_id": 85623,
  "grading_scale_id": 751,
  "__typename": "AssessmentSearch"
},
{
  "assessment_id": 92515,
  "assessment_title": "PE 1.1 Locomotor - Motor Skills & Movement Patterns ",
  "assessment_type": 3,
  "district_id": 85623,
  "grading_scale_id": 751,
  "__typename": "AssessmentSearch"
},
{
  "assessment_id": 228012,
  "assessment_title": "PE Behavior Scale 3-5 (all 4 targets)",
  "assessment_type": 3,
  "district_id": 85623,
  "grading_scale_id": 751,
  "__typename": "AssessmentSearch"
},
{
  "assessment_id": 94095,
  "assessment_title": "PE 4.1 Throwing - Motor Skills & Movement Patterns ",
  "assessment_type": 3,
  "district_id": 85623,
  "grading_scale_id": 751,
  "__typename": "AssessmentSearch"
},
{
  "assessment_id": 227921,
  "assessment_title": "PE Behavior Scale K-2 (all 4 targets)",
  "assessment_type": 3,
  "district_id": 85623,
  "grading_scale_id": 751,
  "__typename": "AssessmentSearch"
},
{
  "assessment_id": 246412,
```

```
"assessment_title": "PE Behavior Scale 3-5- 3 targets",
"assessment_type": 3,
"district_id": 85623,
"grading_scale_id": 751,
"__typename": "AssessmentSearch"
},
{
  "assessment_id": 202089,
  "assessment_title": "PE 3.1 Throwing - Motor Skills & Movement Patterns ",
  "assessment_type": 3,
  "district_id": 85623,
  "grading_scale_id": 751,
  "__typename": "AssessmentSearch"
},
{
  "assessment_id": 201423,
  "assessment_title": "PE 5.1 Throwing - Motor Skills & Movement Patterns",
  "assessment_type": 3,
  "district_id": 85623,
  "grading_scale_id": 751,
  "__typename": "AssessmentSearch"
},
{
  "assessment_id": 217785,
  "assessment_title": "PE 4.1 Locomotor - Motor Skills & Movement Patterns",
  "assessment_type": 3,
  "district_id": 85623,
  "grading_scale_id": 751,
  "__typename": "AssessmentSearch"
},
{
  "assessment_id": 97105,
  "assessment_title": "PE K.1 Locomotor - Motor Skills & Movement Patterns ",
  "assessment_type": 3,
  "district_id": 85623,
  "grading_scale_id": 751,
  "__typename": "AssessmentSearch"
},
{
  "assessment_id": 202533,
  "assessment_title": "PE 2.1 Throwing - Motor Skills & Movement Patterns ",
  "assessment_type": 3,
  "district_id": 85623,
  "grading_scale_id": 751,
  "__typename": "AssessmentSearch"
},
{
  "assessment_id": 217875,
  "assessment_title": "PE 3.1 Locomotor - Motor Skills & Movement Patterns",
```

```
    "assessment_type": 3,  
    "district_id": 85623,  
    "grading_scale_id": 751,  
    "__typename": "AssessmentSearch"  
  },  
  {  
    "assessment_id": 70208,  
    "assessment_title": "Simple - 6/18/20",  
    "assessment_type": 2,  
    "district_id": 85623,  
    "grading_scale_id": 751,  
    "__typename": "AssessmentSearch"  
  }  
]  
}  
}
```

Evaluation Criteria

- **Functionality** – Does your program work according to the specifications of the problem?
- **Language Use** – Do you make good use of the features available in the language you chose?