

MuleSoft Developer Code Challenge

Requirements

- Place your MuleSoft project that includes configuration XML and RAML files in a GitHub repo that we can clone and run
 - Use MuleSoft 4.x
 - Implement the following challenges
1. Design a flow, exposed as an API, that accepts the below Input JSON and provides a response (see Output below) with HTTP Response Code **201**.

Input JSON:

```
{"employee":{"id":"A007","first_name":"Jan","last_name":"Doe"}}
```

Output:

Jan Doe employee profile is created in HRMS System.

2. Using a Dataweave function, create a separate flow that triggers the flow from #1 above, capture the response message, and publish a response message for this new flow.
3. Create a reusable Java function that converts a given string into camelCase and call that function inside Dataweave.
4. Based on the Input below -

Input #1

```
{"employee":[{"id":"A007","first_name":"Jan","last_name":"Doe"}, {"id":"A008","first_name":"Ron","last_name":"David"}, {"id":"A009","first_name":"Jane","last_name":"Kane"}, {"id":"A010","first_name":"Marsh","last_name":"Megan"}, {"id":"A011","first_name":"Kelly","last_name":"Mitch"}, {"id":"A012","first_name":"Chris","last_name":"Vaste"}]}
```

Input # 2

```
{"scoreBoard":[{"id":"A007","subjects":["Maths","English","Arts","Drawings"],"score":[80,75,89,100]}, {"id":"A008","subjects":["Maths","English","Arts","Drawings"],"score":[70,85,69,90]}, {"id":"A021","subjects":["Maths","English","Arts","Drawings"],"score":[90,87,77,95]}]}
```

- 4.1 Create a flow that joins Input #1 & Input #2 and produce a response in the below JSON format based on matching ID's in each input.

Response Output Format:

```
{"certificate":[{"id":"XXX","firstName":"XXX","LastName":"YYY","MarksBySubjectWise":{"Maths":80,"English":90,"Arts":89,"Drawings":100}},{"id":"XXX","firstName":"XXX","LastName":"YYY","MarksBySubjectWise":{"Maths":60,"English":80,"Arts":99,"Drawings":50}}]}
```

- 4.2 Create a flow that joins Inputs #1 & #2 and produce a response that includes all records from Input #1 that may not include corresponding records from Input #2.
5. Create a Mule flow that accepts a number (for ex: 10 as a URI Parameter) and produce the following JSON array as an output response.

(List of "N" natural numbers).

**** Do not use any custom Java or Dataweave functions.**

Output :: [1,2,3,4,5,6,7,8,9,10]

How long will this take - that totally depends on you. We think an estimate for something that matches the requirements above will be about 45 - 60 minutes.

If you have questions - please feel free to reach out to us through the recruiter and ask! We're a collaborative team and would be happy to discuss the challenge and clarify anything for you.