DS

GL5

URBANISATION

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Service creation

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- **The implementation**

1. **The service:** consists of two functions that given a number return the corresponding month or year or an error.

```
@Injectable()
export class AppService {
  getHello(): string {
    return 'Hello World!';
  }
  week = ["Invalid Number", "Monday", "Tuesday", "Wednesday", "Thursday", "Friday", "Saturday", "Sunday"]
  month = ["Invalid Number",'January', 'February', 'March', 'April', 'May', 'June', 'July', 'August', 'September', 'October', 'November'
  n = 0
  dayOfWeek(number): string{
    if(number > 7 || number ===0){
      return(this.week[0])
    }else{
      return(this.week[number])
    }
  }
  monthOfYear(number): string{
    if(number > 12 || number ===0){
      return(this.month[0])
    }else{
      return(this.month[number])
    }
  }
}
```

1. **The controller** consists of the routes that take as a param a number and return an XML response with the corresponding month or year.

```
@Get('/day/:n')
dayOfWeek(@Param('n') n, @Response() res) {
  const response = {day: this.appService.dayOfWeek(n)}
  const json = JSON.stringify(response);

  const xml = json2xml(json, { compact: true, spaces: 4 });

  res.send(xml);

}
@Get('/month/:n')
monthOfYear(@Param('n') n, @Response() res) {
  const response = {day: this.appService.monthOfYear(n)}
  const json = JSON.stringify(response);

  const xml = json2xml(json, { compact: true, spaces: 4 });

  res.send(xml);
}
```
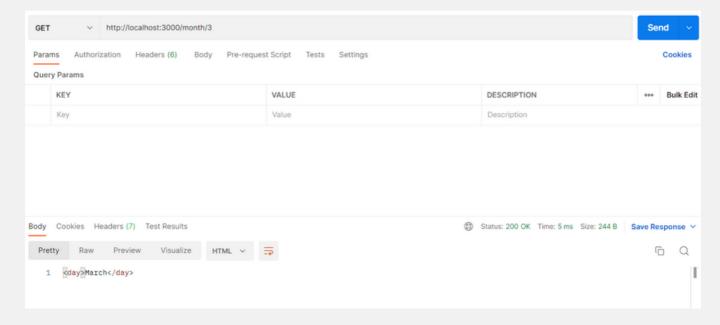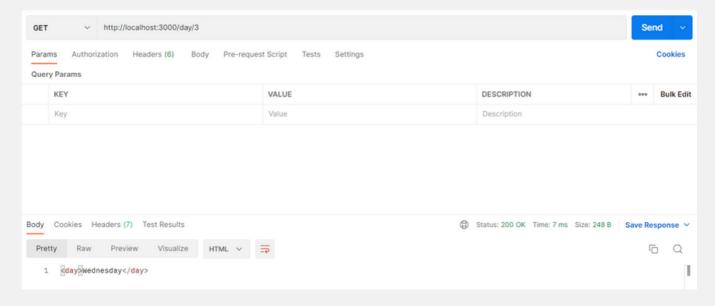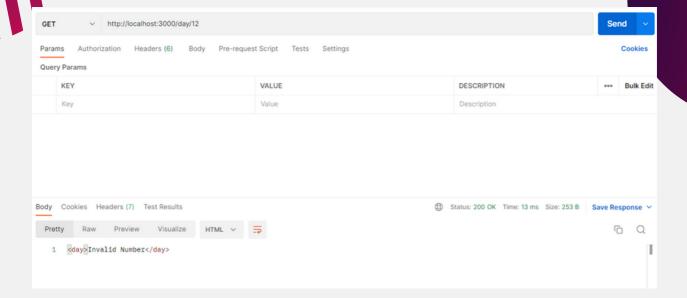
- **Service testing using postman**

Given a number, we receive the month name in an XML response

GET ∨	http://localhost:3000/month/3		Send ∨

Params   Authorization   Headers (6)   Body   Pre-request Script   Tests   Settings   Cookies

Query Params

KEY	VALUE	DESCRIPTION	••• Bulk Edit
Key	Value	Description	

Body   Cookies   Headers (7)   Test Results   Status: 200 OK   Time: 5 ms   Size: 244 B   Save Response ∨

Pretty   Raw   Preview   Visualize   HTML ∨

```
1   <day>March</day>
```

Given a number, we receive the day name in an XML response

GET ∨	http://localhost:3000/day/3		Send ∨

Params   Authorization   Headers (6)   Body   Pre-request Script   Tests   Settings   Cookies

Query Params

KEY	VALUE	DESCRIPTION	••• Bulk Edit
Key	Value	Description	

Body   Cookies   Headers (7)   Test Results   Status: 200 OK   Time: 7 ms   Size: 248 B   Save Response ∨

Pretty   Raw   Preview   Visualize   HTML ∨

```
1   <day>Wednesday</day>
```

If the number is invalid we get an error response
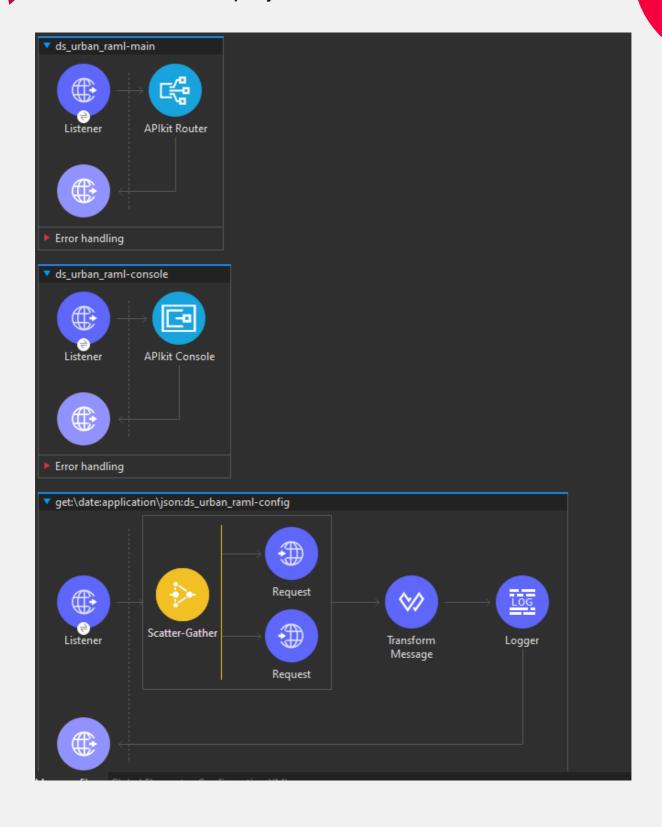
- **The RAML file**

This is the RAML file snapshot containing the API definition

```
1  #%RAML 1.0
2  title: ds_urban_raml
3  version: v1
4  baseUri: htt^://localhost:3000
5
6  traits:
7    dateinput:
8      queryParameters:
9        weekday: number
10       daymonth: number
11       yearmonth: number
12       year: number
13
14 resourceTypes:
15   Member:
16     get:
17       is : [dateinput]
18       body:
19         application/json:
20           type: <<item>>
21
22 types:
23   Date:
24     properties:
25       date: string
26     example:
27       date: Monday, March 12, 2019
28
29 /date:
30   type: { Member: { item: Date } }
```
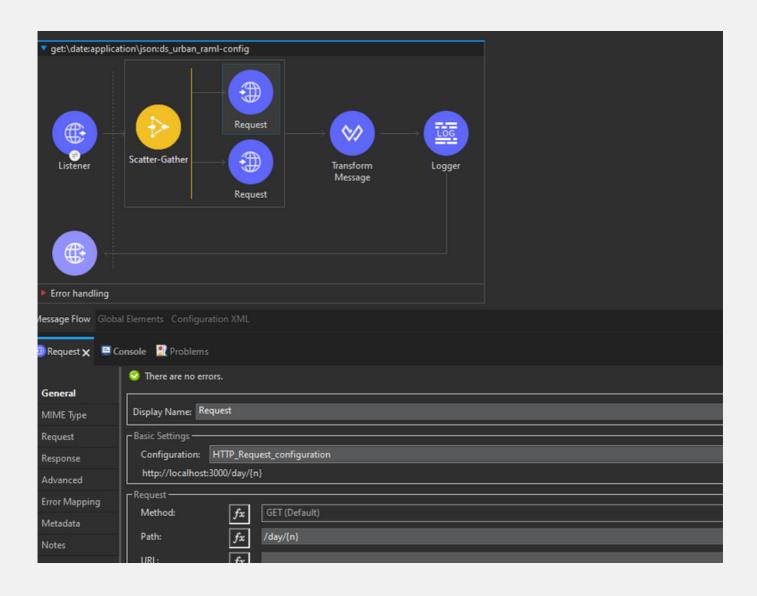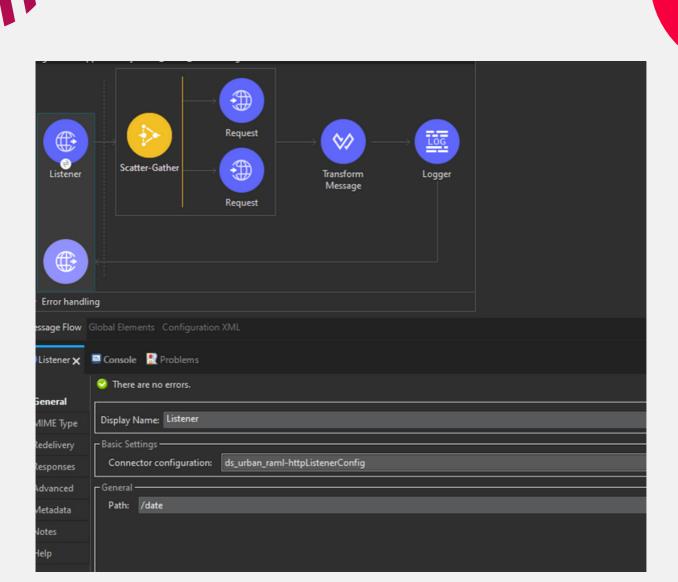
- **AnyPoint Studio Endpoints**

We created a mule project from the raml file

- **The modules snapshots**

We defined the date endpoint as a listener that gets input from query parameters then request day of week and month of year from our service endpoints
the flow message take the info from xml outputs and concatenate them in a json output.

- **Github Link**

https://github.com/CherifYasmine/ds-urbanisation