Consuming REST services with Mendix

Outline

1. Case introduction
2. How to build a prototype using Mendix
3. Backgrounds on REST
4. Tips & Tricks
5. Q & A

Get external metadata into Mendix for selecting a song

eCard platform

REST

Music Metadata

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How can we use REST to retrieve song metadata from Spotify?

How to build this prototype using Mendix?

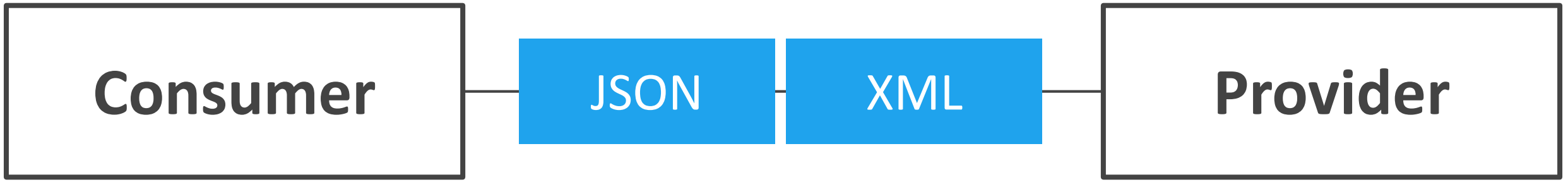
1. Extract REST endpoints needed from Spotify API documentation.
2. Figure out the messaging structure to search and collect metadata
3. Build the prototype in Mendix

Key concepts REST

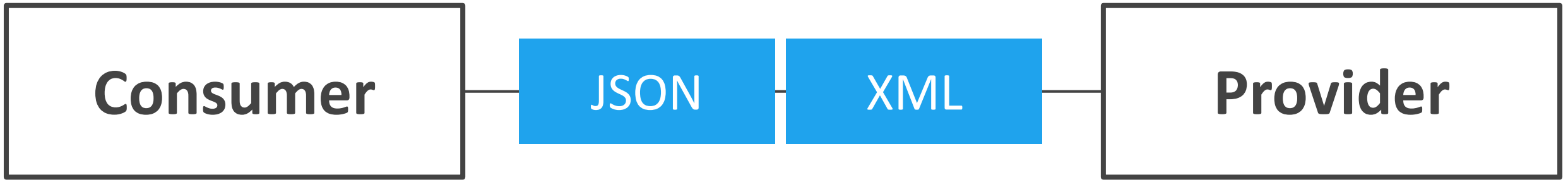
Key concepts REST

- Consumer initiates the call
- Provider receives it

Key concepts REST

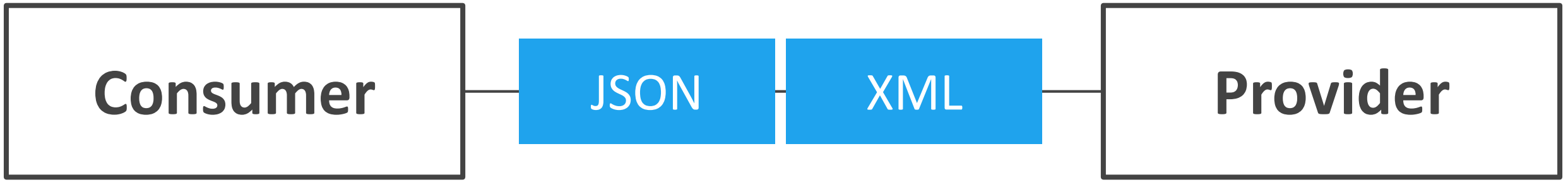


Key concepts REST



Consumer consumes a service published by a provider

Key concepts REST



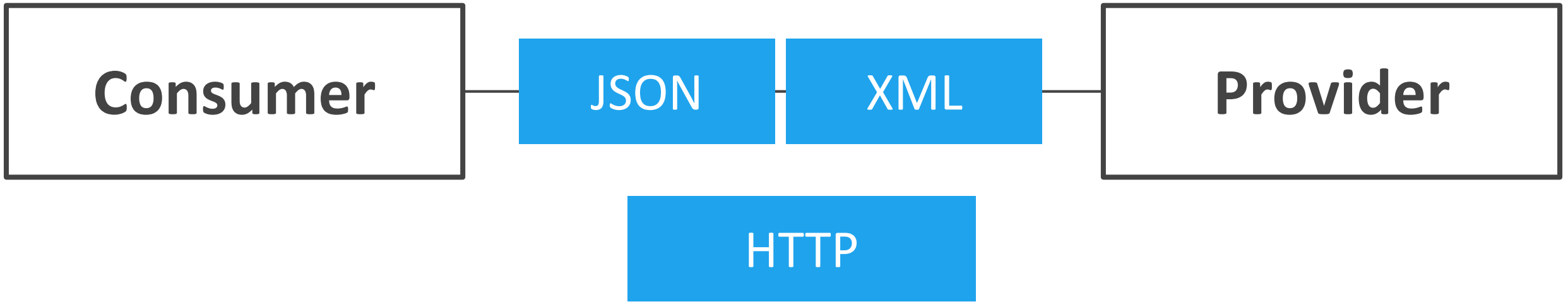
Representation in JSON:

```
{
    "ID": "1",
    "Name": "Joey Mendez",
    "Email": "j.mendez@gmail.com",
    "Country": "United Kingdom"
}
```

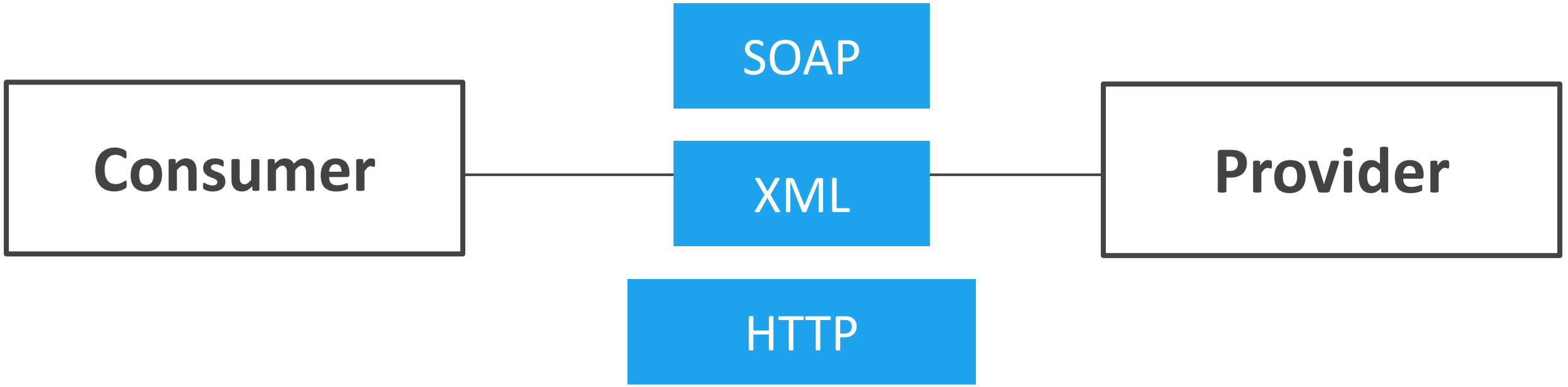
Representation in XML:

```
<Person>

<ID>1</ID>

<Name>Joey Mendez</Name>

<Email>j.mendez@gmail.com</Email>

<Country>United Kingdom</Country>
</Person>
```

Key concepts REST



Key concepts REST



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HTTP-based integration methods in Mendix

Mendix terminology:	REST Service	Web Service	App Service	Odata Service
Data structures supported:	XML & JSON	SOAP (XML)	N/A	XML
Consume/Publish:	Consume only (publish using module)	Consume & publish	Consume & publish	Publish only
Distinctive characteristic / typical usage	Popular recently for public open APIs	Strict on typing, popular in enterprise contexts	Plug-and-play Mendix integration	Very easy to publish, suitable for BI/reporting purposes
Available from Mendix version:	6.6.0 natively, lower versions using module	2.x	5.x	5.18

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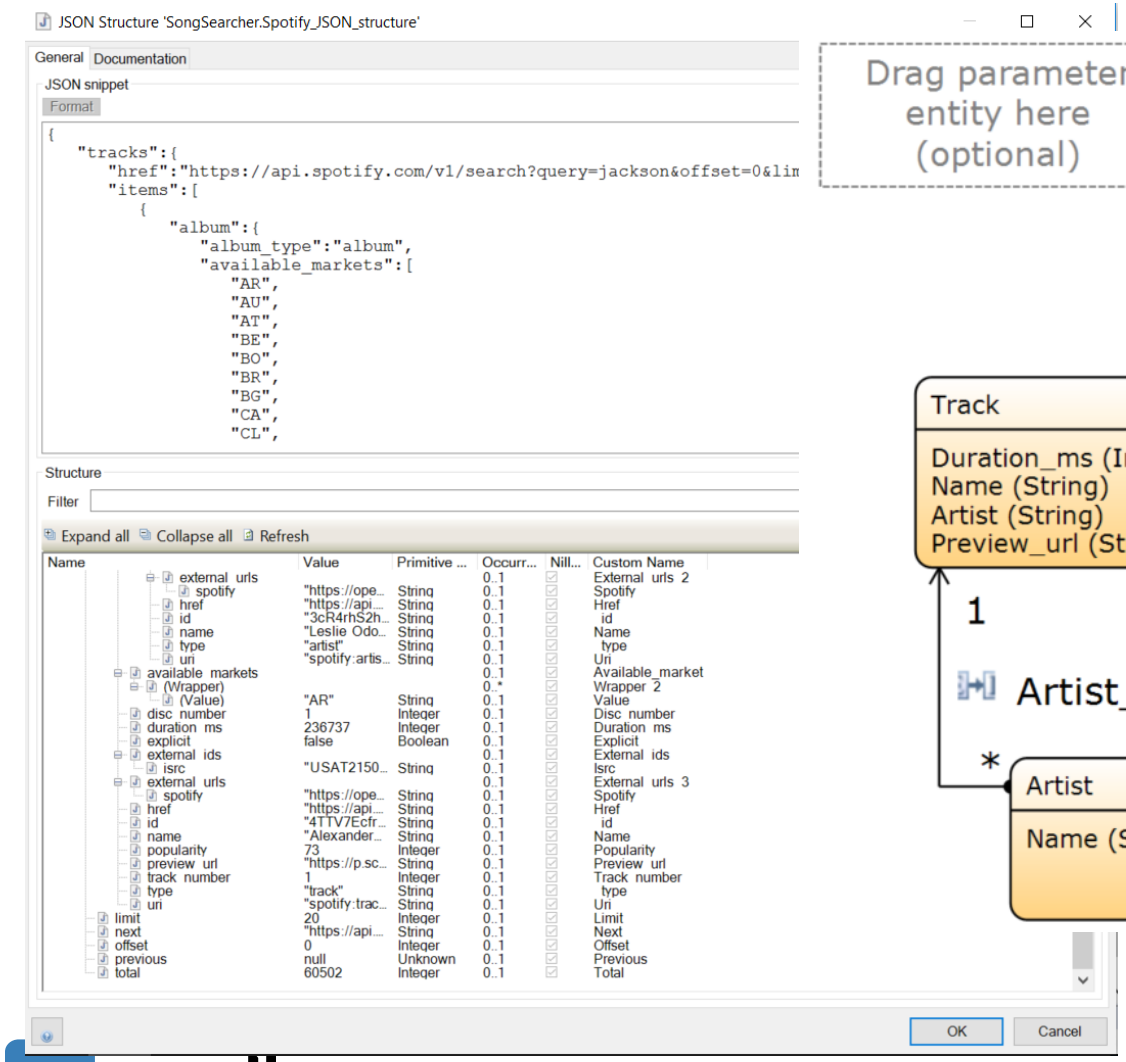
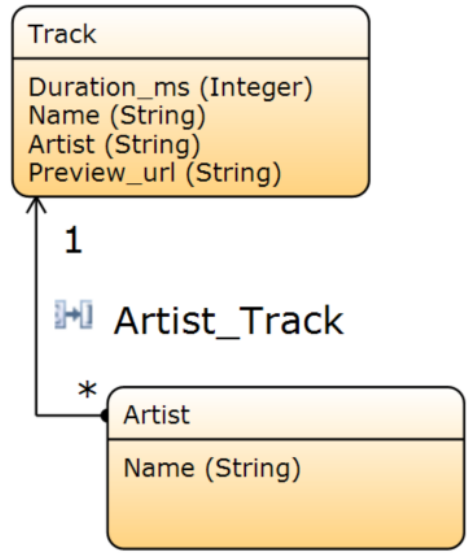
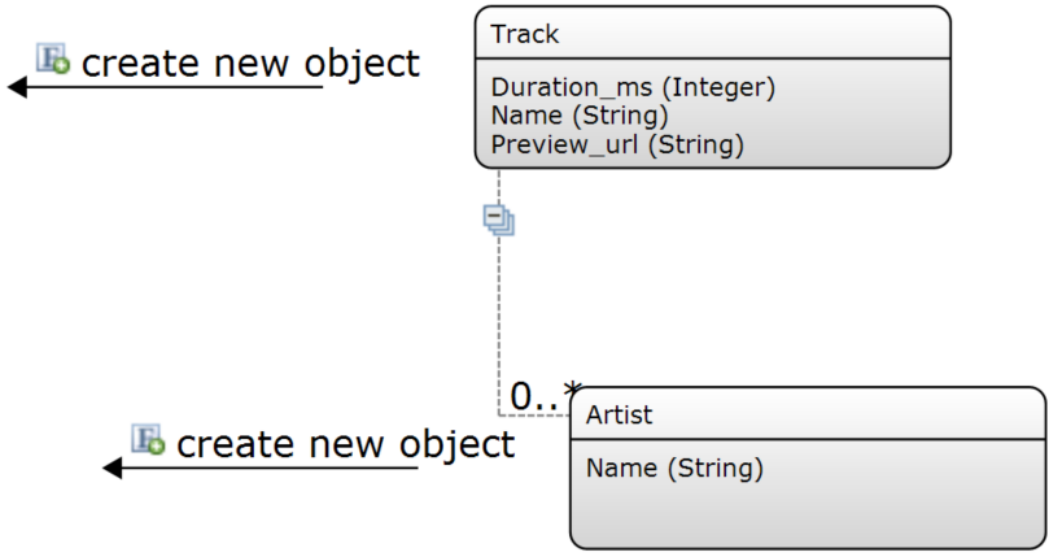
Benefits of integrating using Mendix







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