Week9 – REST APIs

Integrating with Web Services - REST API (GET)

In this task, I have used the Consume REST API(GET) method operation in OutSystems to integrate with an external REST API.

The **REST Contacts** application is a simple application, one containing a couple Screen and Server actions using the **service studio** which is the Outsystems run environment. Logics were added to make the functionality create the logic to get the Contacts and display the list on the screen.

Below are the screenshots taken using service studio from Outsystem.

GetContact

🟠 Method URL

| GET ▼ | https://foundation.outsystems.net/ContactsAPI/rest/v1/contacts/%7BEmail%7D/ |

URL accepts parameters in braces, e.g. https://api.twitter.com/1.1/search/tweets.json?q=**{query}**
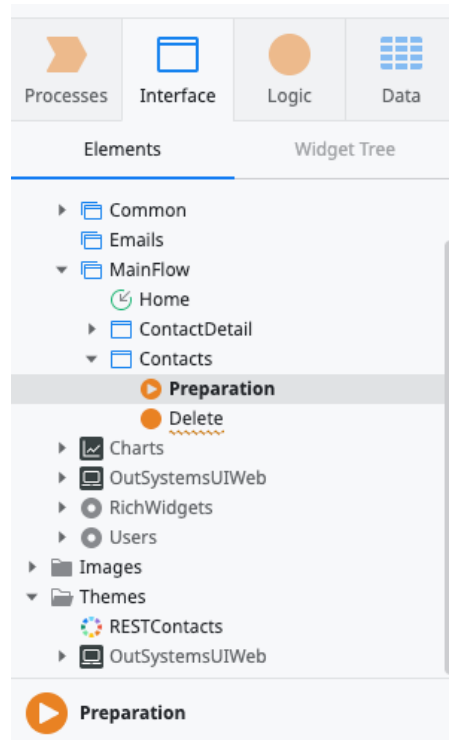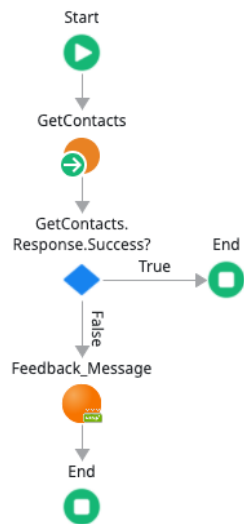
| Body | Headers and Authentication | Test |

Paste JSON or plain text example to generate the response output parameter and structure.

You can also use the Test tab to invoke and get the response from the REST API, and copy it here.

🗒 Response

```
{
"Result": {
"Success": true,
"ErrorMessage": ""
},
"Contact": {
"Title": "Mr.",
"Name": "Scott Williams",
"Gender": "Male",
"Phone": "+299 91 63 66",
"Birthday": "1988-05-23",
"Occupation": "Support specialist",
"City": "Qasigiannguit",
"State": "Qaasuitsup",
"Country": "Greenland",
"Email": "ScottSWilliams@gustr.com",
"Company": "Dee's Drive-In"
}
}
```

❓   **Finish**   Cancel

Start

GetContacts

GetContacts.
Response.Success?

True → End

False

Feedback_Message

End

Processes	Interface	Logic	Data

Elements	Widget Tree

- ▶ 🗔 Common
- 🗔 Emails
- ▼ 🗔 MainFlow
  - ⏱ Home
  - ▶ 🗔 ContactDetail
  - ▼ 🗔 Contacts
    - ▶ **Preparation**
    - ● Delete
- ▶ 📊 Charts
- ▶ 🖥 OutSystemsUIWeb
- ▶ ◉ RichWidgets
- ▶ ◉ Users
- ▶ 📁 Images
- ▼ 📁 Themes
  - ◌ RESTContacts
- ▶ 🖥 OutSystemsUIWeb

▶ **Preparation**

Processes	Interface	Logic	Data

- RESTContacts
  - ▸ Server Actions
  - ▾ Integrations
    - Integration with external systems
    - SOAP
    - ▾ REST
      - ▾ ContactsAPI
        - ▾ **GetContacts**
          - ▾ Response
            - ErrorMessage
            - ▸ Contacts
            - Success
  - ▾ Roles
    - ▸ Anonymous
    - ▸ Registered
  - ▸ Exceptions

GetContacts
REST API Method

Name	GetContacts
Description	...
URL Path	/ContactsAPI/rest/v1/conta
HTTP Method	GET
Request Format	
Response Format	JSON
Timeout in Seconds	

More...

REST Contacts   ⟶ Login

Contacts   ⊕ Add New Contact

Name	Gender	Occupation	Company
Christopher Day	Male	Office administrator	Dee's Drive-In
Robert Chadwick	Male	FBI agent	Four Leaf Clover
Shana Demps	Female	Social work policy maker	Present Company
Aron Elliott	Male	Structural and reinforcing iron and metal worker	Father & Son
Edward Noble	Male	Cardiovascular technologist	Clemens Markets
William McDonald	Male	Funeral attendant	MegaSolutions
Scott Williams	Male	Support specialist	Dee's Drive-In
Sanford Richard	Male	Job estimator	Matrix Design
Tabitha Gough	Female	Paraprofessional	Nan Duskin