Expose a REST API

If you want to expose methods to allow other systems to retrieve or manipulate information, you can do it using a REST API.

Create the REST API Service

1. In the Logic tab, open the Integrations folder.
2. Right-click REST and select Expose REST API....
3. Set the name of your REST API. Example: PhoneBook.

Create the REST API Method

1. Right-click your REST API and choose Add REST API Method.
2. Set the name of your REST API method. Examples: GetContacts, CreateContact, UpdateContact.
3. Make sure the HTTP Method property is set to the HTTP verb corresponding to the action your method will perform:
   - GET – Read
   - POST – Create
   - PUT – Update
   - DELETE – Delete
4. Design the method as an action that retrieves or manipulates the data you are exposing. Examples: GetContacts will return the list of all Contacts, CreateContact or UpdateContact will receive a Contact record and return the Id of the created or updated Contact.

After deploying the application, your REST API endpoints will be accessible. Examples:
<table>
<thead>
<tr>
<th>Default Endpoint</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>GET https://&lt;server&gt;/MyAPI/rest/PhoneBook/GetContacts</td>
<td>Gets all contacts.</td>
</tr>
<tr>
<td>GET https://&lt;server&gt;/MyAPI/rest/PhoneBook/GetContact</td>
<td>Gets a contact.</td>
</tr>
<tr>
<td>POST https://&lt;server&gt;/MyAPI/rest/PhoneBook/CreateContact</td>
<td>Creates a contact.</td>
</tr>
<tr>
<td>PUT https://&lt;server&gt;/MyAPI/rest/PhoneBook/UpdateContact</td>
<td>Updates a contact.</td>
</tr>
<tr>
<td>DELETE https://&lt;server&gt;/MyAPI/rest/PhoneBook/DeleteContact</td>
<td>Deletes a contact.</td>
</tr>
<tr>
<td>GET https://&lt;server&gt;/MyAPI/rest/PhoneBook/GetContactAddresses</td>
<td>Gets all addresses of a contact.</td>
</tr>
</tbody>
</table>

The default endpoints are based in the HTTP Method (GET, POST, PUT, DELETE) and the name of the REST API Methods, but you can customize the endpoints to your needs.

You can test your REST API Method using several available tools, such as Curl or Postman, or building an OutSystems application for that effect.

For manipulation methods where the input parameter is a Record (such as POST or PUT), you will have to add the Content-Type header to the request, with the value application/json.

See Also

- Exercise - Exposing Application Data using REST (GET)
- Exercise - Creating Application Data using REST (POST)
- Exercise - Updating Application Data using REST (PUT)
- Exercise - Deleting Application Data using REST (DELETE)