





Soap API





In this blog, we will develop a synchronous soap API.

In this Use case,

- We will expose soap which takes employee id as request.
- We will retrieve employee data from database using employee id.
- Then, we will send employee data as response.

Let us begin with the steps.

Step 1: Log on to Boomi platform (<u>https://platform.boomi.com/</u>) with required credentials i.e Email Address and Password.

boomi Welcome! Sign in to AtomSphere	
Email Address (inspired) Approved (inspired)	
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Step 2: Once logged into Boomi platform, we will be able to view Home page.

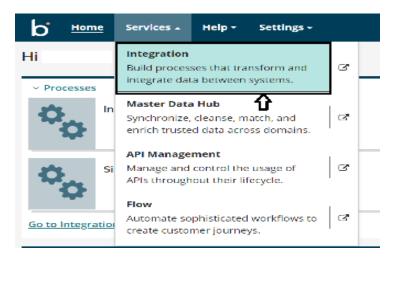
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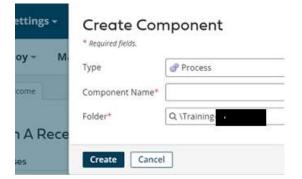


Step 3: Now, click on Services followed by Integration. We will see the Build page. Click on New.





Step 4: Once, clicked on New, we will be able to see three fields i.e.Type, Component Name and Folder.



• Select Type as process as we are building a process. Component Name and Folder can be given based on your choice (i.e which name to be given and where do we want to create the process). Click on create.

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Step 5: We see that the process gets created with a start shape which is configured with AS2 Shared Server by default.



Step 6: Select the start shape and choose Web Services server from drop down in connector tab and click on "+" to add new operation.

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Step 7: Give a relevant name to the operation and configure the following.

- **Operation Type:** We have to choose field based on the operation which we are going to perform. In this case, we are developing a service to display the welcome message. Therefore, Operation would be Create.
- **Object**: It can be given any name based on the operation. Here, we are giving it as Welcome.



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• **Expected Input Type:** We have to choose input based on the profile we want to add i.e (XML, JSON etc). Here, we are considering **Expected Input Type as Single XML Object** as request profile is in XML format.

Options Archiving	Tracking	
Connector Action	Listen 🛩	
Simple URL Path (1)	/ws/simple/createWelcome	ŝ
SOAP URL Path 🕧	/ws/soap- Unavailable	
Operation Type 🕢	CREATE	~
Object (i)	Welcome	
Expected Input Type 🕧	Single XML Object	v
Request Profile 🕧	Q. Choose	0
Response Output Type 🕖	None	Ŷ
Attachment Cache 🕧	Q Choose	0

• **Request Profile:** To choose the request profile, click + and give it a relevant name. Choose import



• Once, clicked on import we will have to choose input file from the location where file is saved. Click Next and Finish

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lect File To Upload*	Choose a File	No file chosen	

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ild XML Profile from	XML File	Ŷ	
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• We see that the request profile is loaded successfully. Click Finish, Save and Close.



• Click save and close.

SOAP Expose Welcome Operation - Web Services

Options Archiving	Tracking
Connector Action	Listen 🛩
Simple URL Path 🛞	/ws/simple/createWelcome
SOAP URL Path 🕧	/ws/soap- Unavailable
Operation Type 🕧	CREATE 🗸
Object 🕡	Welcome
Expected Input Type 🕕	Single XML Object.
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Response Output Type 🛞	None 🗸
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Welcomereq.xml file looks like:

<?xml version="1.0" encoding="UTF-8"?> <class> <id>201</id> </class>

• **Response Output Type:** We have to choose the output based on how the data should be represented as response. Here, we are expecting the output to be in XML format. Therefore, we are considering **Response Output Type to be as a single XML object** as response would be in XML Format.



• **Response Profile:** To choose the response profile, click + and give it a relevant name. Choose import.

Δ	Getting Started	行
	XML Profiles	
ame the profile	XML profiles represent the structure of the various XML documents sent through Boomi processes, including all the elements, attributes, and other configuration information. The XML profile allows you to configure repeating data sets.	click on import
	You can import from a file, a schema, or one of the XML template standards that Boomi provides. Would you like to import your profile from one of these sources now?	

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Next

• Once, clicked on import we will have to choose output file from the location where file is saved. Click Next and Finish.

KML Import Wizard		
Build XML Profile from	XML File	- · · ·
Select File To Upload*	Choose a File	No file chosen
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ML Import Wizard		
Build XML Profile from	XML File	~
Select File To Upload*	Choose a File	welcomeres.xml
		file name selected

• We see that the response profile is loaded successfully. Click Finish, Save and Close.

XML Import Wizard							
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• Click save and close.

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SOAP Expose Welcome Operation - Web Services

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Object 🕑	Welcome
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• Post adding Request and Response profiles, the operation looks like

Options	Archiving	Tracking		
Connector	Action	Listen 🛩		
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esult Conten	it Type 🕧	application/xml	0	
Attachment C	ache 🛈	Q. Choose	0	

• Welcomeres.xml file looks like

```
<?xml version="1.0" encoding="UTF-8"?>
<class>
<empid>201</empid>
<empname>Smith</empname>
<country>Australia</country>
<age>30</age>
<salary>10000</salary>
</class>
```

• Click save and close.

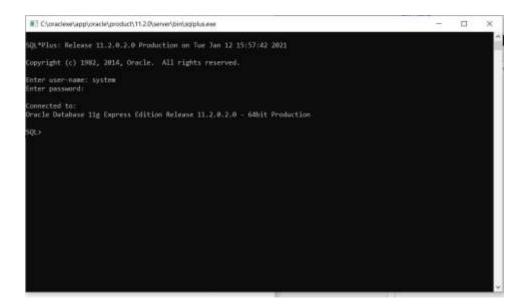
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Step 8: We will create a table in the database using oracle database.

• Open SQL plus and connect as below:



• Create a table with name "employee" as follows:



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• Command:

CREATE TABLE EMPLOYE (EMPID INTEGER, EMPNAME VARCHAR2(100), COUNTRY VARCHAR2(100), AGE INTEGER, SALARY VARCHAR2(20));

• Insert values into table as follows:

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SQL> THSERT INTO EMPLOYE VALUES(101,'SMITH','AUSTRALIA',31,10000);				87
1 row created.				
SQL> INSERT INTO EMPLOYE VALUES(102,'KOHLI','INDIA',30,20000);				
1 row created.				
SQL> INSERT INTO EMPLOYE VALUES(103, 'WILLIAMSOM', 'NEW ZEALAND', 30, 30000);				
1 row created.				
SQL> INSERT INTO EMPLOYE VALUES(104,'MORGAN','ENGLAND',34,40900);				
1 row created.				
sqL>				
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• COMMAND:

INSERT INTO EMPLOYE VALUES (101,'SMITH','AUSTRALIA',31,10000); INSERT INTO EMPLOYE VALUES (102,'KOHLI','INDIA',30,20000); INSERT INTO EMPLOYE VALUES (103,'WILLIAMSOM','NEW ZEALAND',30,30000); INSERT INTO EMPLOYE VALUES (104,'MORGAN','ENGLAND',34,40000);

Step 9: Search for database shape in search pallet. Drag and drop the it after Web Services Server connector.

• Choose the action as Get and click on "+" to add a new database connection.

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Action	Get	*
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Operation 🕧	Q Choose	ᡗᡝ

Here we have to configure:

• **Driver type:** It is the type of the driver we are using. In our case it is Oracle. Select Oracle from dropdown.

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- User name: It is the Username of our database. Here it is SYSTEM.
- Password: Give the password of the database.

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- **Host:** It is the address of the host. Localhost in our case.
- **Port:** Port number of the database. In our case it is 1521.
- Database Name: It is the name of the database. Here it is "XE".

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• Click on save and close.



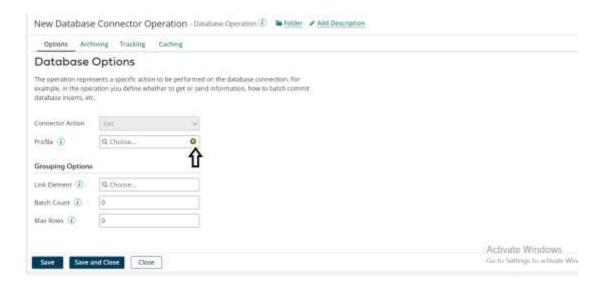




Step 10: Click on "+" to add a new operation as below:

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to get or send data.		
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Connection ①	Q SOAP_API_DB_Connection	7
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• Click on "+" to add a new profile.



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• Click on Fields and add multiple fields as below:

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• Select 5 and click on ok.

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• Click on each field to rename as follows:

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n 🔄 🕈 Parameters	Mandatory ④		
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	Сіліа Туре	Number 👻	
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• Expand parameters tab and click on add new parameter.



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• Rename parameter and select number from the datatype drop down.

Data Elements Options				
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• Now we have to write a SQL statement to retrieve data from database. To write a query click on Statement as follows:

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• Add the query in the SQL script tab as follows:

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		A REAL PROVIDE STREAM ST	
	4)	
Patameter (P()			

• STATEMENT:

> SELECT * FROM SYSTEM.EMPLOYE WHERE EMPID=?

- Here we are getting all fields from employee table using empid. Here "?" indicates the dynamic parameter.
- Click on save and close.

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• Click on parameters to add a parameter.

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• Click on "+" to add a parameter.



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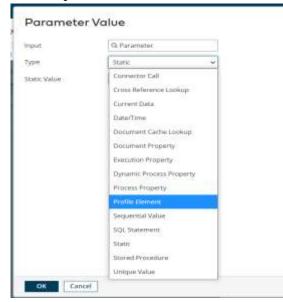




• Click on input tab and select parameter ad click ok.

	Q. Parameter	
Гуре	New input Please choose a parameter	
Static Value	Parameter	
	OK Cancel	
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• Click on Type tab and select profile element and click ok.



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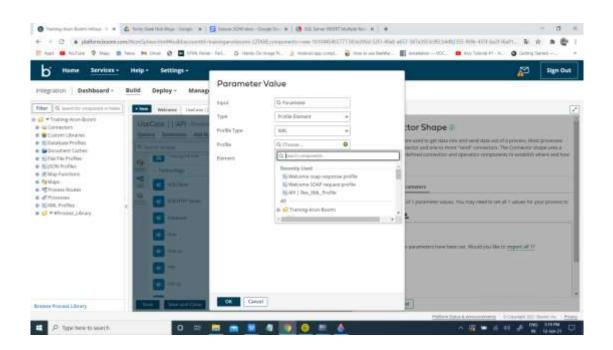




• Click on profile type and select XML from drop down.

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• Click on profile and select welcome soap response profile which we created early.

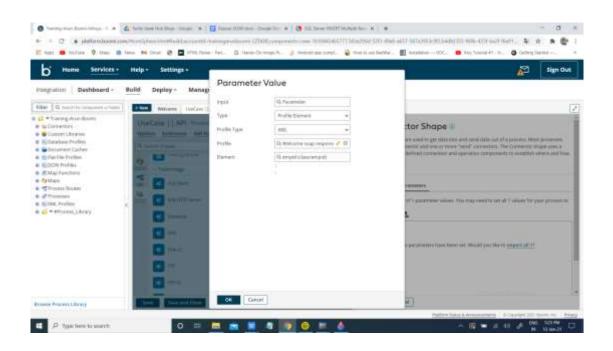


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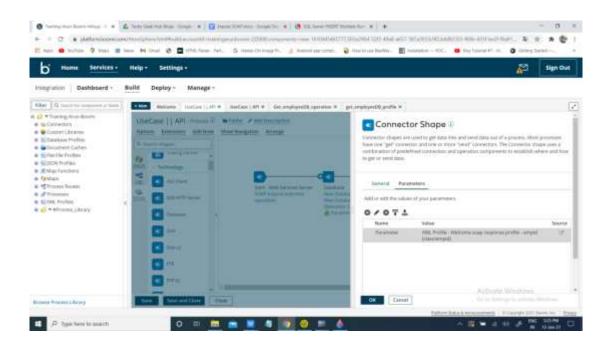




• Click on element and choose empid from drop down and click ok.



• Close the connector by clicking ok.



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Step 11: Search for Map shape in search pallet. Drag and drop the shape onto process canvas and place it after database connector. Click on "+".

New Process 3 - Prices 2 Manager Additionation Desires Extensions Addition: The Nergerien Analyse G Search America	Wap Shape Use maps to transform data from one format to another, or more specifically, from one profile to another. The Map shape references a predefined Map component.
Image: Source Carrier Image: Source Carrier	Biplay Norte
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• Click on choose in map source

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		= 0	-	\times
Map Source Choces the source profile for your map to	begin. Add o	Map Functions	to transform data	Map Destination Choose the election traffic for your map.

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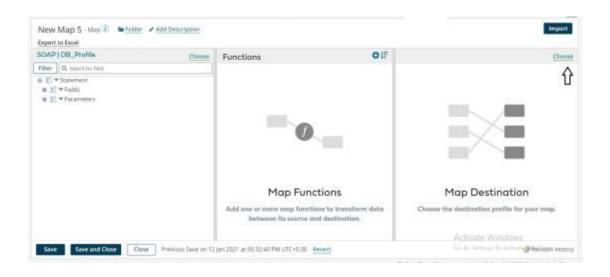




• Select the database profile we have created earlier and click ok.

Profile Type Database Create New Profile Profiles Image: Create New Profile Image: New Database P	hoose a Profile		
get_employeeDB_profile Solution New Database Profile 2 New Database Profile 3 New Database Profile 4 New Database Profile 5 New Database Profile 6 SOAP DB_Profile	Profile Type	Database 🛩 📓 Crea	ate New Profile
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• Click on choose in the map destination.



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• Click on xml from drop down and select welcome soap response profile which we have created earlier and click ok.

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	AtomSphere API executeProcess EXECUTE Response						
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	New XML Profile						
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	to soap_xm_resProfile						
	soap_xml_reqProfile						
	(<u></u>						
	Welcome soap response profile						
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Step 12: Provide one to one mapping as follows and click on save and close.

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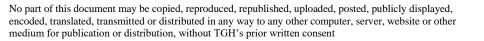
Step 13: Search for Return documents shape in search pallet. Drag and drop the shape onto process canvas and place it after map shape.

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Step 14: Click on create packaged component to package.

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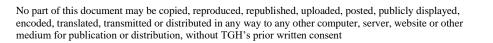
• Click on add next details and Click Ok.

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Step 15: Click on deploy to deploy the process.

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-	Packaged Components Successfully Created
8	Your packaged components were successfully created. To deploy your packaged components, click on the deploy button below.
n	Deploy Close
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• Select the environment and click on next.

Pro-prioritizement in a	which to implay your packaged componentitia and option	nally add minto about the deployment.	
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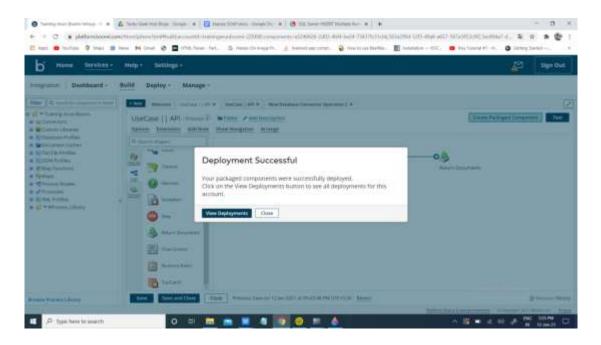
• Click on next and click Deploy.

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Step 16: Click on manage and go to atom management and click on the atom which we have used to deploy the process.

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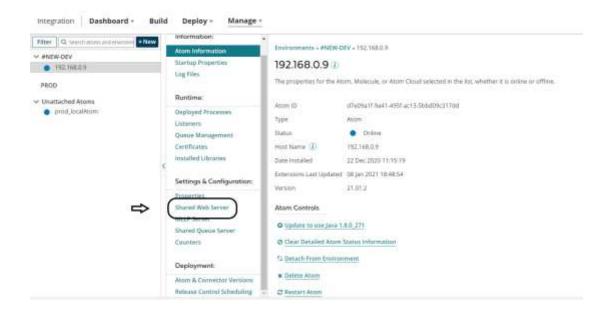
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• Click on shared web server.



- Copy the base URL address.
 - http://localhost:9090



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• Click on API type and select intermediate and click on save.

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• Click on restart plugin.

 Plugin configuration changes require a restart of the plugin for new configurations to take effect. We recommend that you restart the plugin now. Note that this will not restart the Atom. Would you like to restart this plugin?

Yes, restart plugin now

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Cancel





Step 17: Click on configure in start shape and go to the operation.

	s the main shape that begins the process flow. It is an it cannot be removed.	itomatically added to each
Process Mode	General	
Туре	🔹 Connector 🔘 Trading Partner 🔘 Data Pass	through 🔘 No Data
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	Web Services Server	v
Connector ① Action Connection		
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Action	Listen The Atom Web Server will manage connection set	
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• Copy the Soap URL address.

Options Archiving	Tracking	
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Attachment Cache 🕕	Q. Choose	

• Append the base with soap URL and add ?wsdl in the end as follows.

http://localhost:9090/ws/soap?wsdl

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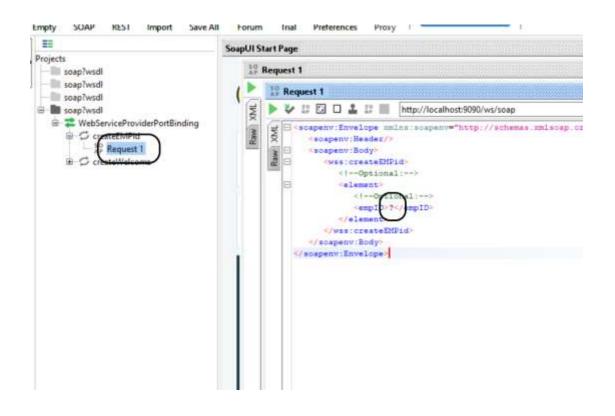




Step 18: Open soap UI and paste this URL in the initial WSDL tab and click ok.

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Project Projection					

• Expand the Create EmpId and click on request 1

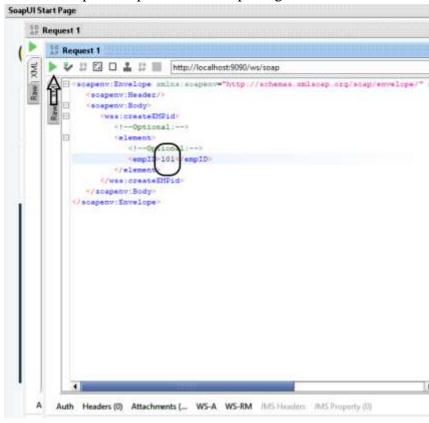


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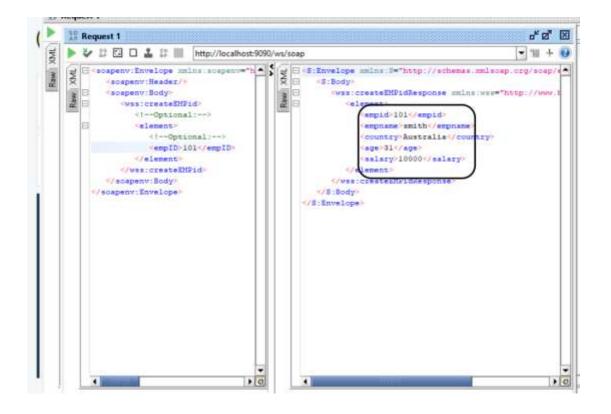




• Give empid as input between empId tags and click on execute as follows:



Step 19: We see that the data has retrieved from the database.



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