**Apex REST Webservice Implementation Exercise**

**Implementation**

Create an Apex REST Webservice class

* The webservice will support the HTTP Post method.
* Will parse the request JSON payload and creates/Update Accounts, Contact, and Cases
  + Account Matching by **AccountNumber**
  + Contact Matching by Email Address
  + Case matching by CaseNumber\_\_c
* Map **explicitly** the JSON attributes with the related field. Create new custom fields for JSON attributes that do not have a match.

Invoke the created Apex REST service

* Use Postman to authenticate and call the service
* Pass data by sending a request body in JSON format, the JSON payload attached in this exercise

**Demo**

Review the code implementation

Demo the following

* Run the first time to create Accounts, Contacts, and Cases
* Create/Update the JSON payload with
  + Same account, update some fields
  + One excising Contact to be update (same email)
  + One new Contact
  + One excising Case to be update (same CaseNumber\_\_c)
  + One new Case
* Run the request with updated payload and verify the updated records and new records

**Documentation and references**

<https://trailhead.salesforce.com/content/learn/modules/apex_integration_services>

<https://www.postman.com/downloads/>

[

{

"AccountNumber": "ACC-123456",

"Active\_\_c": "Yes",

"BillingCity": "New York",

"BillingState": "NY",

"BillingStreet": "1301 Avenue of the Americas \nNew York, NY 10019\nUSA",

"CustomerPriority\_\_c": "High",

"Description": "World's third largest oil and gas company.",

"Fax": "(212) 842-5501",

"Industry": "Energy",

"Name": "United Oil & Gas Corp.",

"NumberOfEmployees": 145000,

"NumberofLocations\_\_c": 955,

"Phone": "(212) 842-5500",

"Type": "Customer - Direct",

"Contacts": [

{

"Department": "Production",

"Email": "spavlova@uog.com",

"FirstName": "Stella",

"Languages\_\_c": "English",

"LastName": "Pavlova",

"Phone": "(212) 842-5500",

"Title": "SVP, Production",

"Cases": [

{

"ContactEmail": "spavlova@uog.com",

"ContactPhone": "(212) 842-5500",

"CaseNumber\_\_c": "767145",

"IsEscalated": false,

"Origin": "Phone",

"PotentialLiability\_\_c": "Yes",

"Priority": "High",

"Product\_\_c": "GC1060",

"Reason": "Performance",

"Status": "Closed",

"Subject": "Performance inadequate for second consecutive week",

"Type": "Electrical"

},

{

"ContactEmail": "spavlova@uog.com",

"ContactPhone": "(212) 842-5500",

"CaseNumber\_\_c": "572546",

"IsEscalated": false,

"Origin": "Phone",

"PotentialLiability\_\_c": "No",

"Priority": "Medium",

"Product\_\_c": "GC5040",

"Reason": "Equipment Design",

"Status": "Closed",

"Subject": "Motor design hindering performance",

"Type": "Electrical"

}

]

},

{

"Department": "Technology",

"Email": "lboyle@uog.com",

"FirstName": "Lauren",

"Languages\_\_c": "English",

"LastName": "Boyle",

"Phone": "(212) 842-5500",

"Title": "SVP, Technology",

"Cases": [

{

"ContactEmail": "lboyle@uog.com",

"ContactPhone": "(212) 842-5500",

"CaseNumber\_\_c": "868314",

"IsEscalated": false,

"Origin": "Web",

"PotentialLiability\_\_c": "No",

"Priority": "Low",

"Product\_\_c": "GC3040",

"Reason": "Equipment Design",

"Status": "New",

"Subject": "Design issue with mechanical rotor",

"Type": "Mechanical"

},

{

"ContactEmail": "lboyle@uog.com",

"ContactPhone": "(212) 842-5500",

"CaseNumber\_\_c": "456345",

"IsEscalated": false,

"Origin": "Web",

"PotentialLiability\_\_c": "No",

"Priority": "Medium",

"Product\_\_c": "GC5060",

"Reason": "Performance",

"Status": "Closed",

"Subject": "Signal panel on GC5060 blinks intermittently",

"Type": "Electronic"

},

{

"ContactEmail": "lboyle@uog.com",

"ContactPhone": "(212) 842-5500",

"CaseNumber\_\_c": "435143",

"IsEscalated": false,

"Origin": "Phone",

"PotentialLiability\_\_c": "Yes",

"Priority": "High",

"Product\_\_c": "GC3060",

"Reason": "Installation",

"Status": "Closed",

"Subject": "Generator GC3060 platform structure is weakening",

"Type": "Structural"

}

]

}

]

}

]