USE CASE 1 – SIMPLE USER API DEVELOPMENT

Develop a RESTful API to perform read/write operations on a ‘Person’ record in a JDBC compliant relational database. Develop another restful API to perform read/write operations on a ‘User Profile’ for the Person record created above. Develop another process-level API (Orchestration API) that calls the Person API and User Profile API to on-board a Person.

As part of the development, demonstrate how the following ‘API Development Features’ will be achieved in your solution:

1. Define the APIs using an API definition language (e.g. RAML, Swagger, etc)
2. Implement the 3 APIs
3. Define security policies and SLAs on the APIs
4. Document and Publish the APIs to the API Portal.
5. Demonstrate how the APIs are discoverable and how developers can request access to the APIs.
6. Manage APIs (deploy, un-deploy, approve/reject access, manage security policies and SLAs)
7. Monitor the API usage
8. Troubleshoot issues (security issues, coding issues)

Suggested Schemas:
Person:
- Person ID
- Name:
  - Name Type (Legal, Preferred)
  - First Name
  - Last Name

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Middle Name

Email Addresses:
   Email Type (Personal, Office)
   Email Address

Phones:
   Phone Type (Mobile, Office)
   Phone Number

Addresses:
   Address Type (Home, Business etc)
   Address 1
   Address 2
   Address 3
   City
   State
   Zip
   Country

User Profile:

Username
Password
Person ID
Roles
   Role Name (Student, Staff, Alumni etc)