**Requirements**

1. **D365.Plugins**
   1. CalculateEmployeeTotalIncome:
      1. This plugin should execute on update of contact.
      2. Trigger : Change of neu\_employersalary, neu\_othersalary
      3. Trigger : Change of neu\_totalincome (This can be changed from the D365.ConsoleApp project when console application updates the total income. Here only total income is updated by console application and not the Employer salary and the other salary
      4. The total income should be calculated as sum of Employer salary and other salary
      5. The console application can update the sum wrongly. We need to trigger the plugin in this case so that the plugin can silently (without throwing error) update the total income to Sum of employer salary and other salary.
   2. UpdateEmployeeInfoByApi:
      1. This plugin should execute on update of contact
      2. Trigger : change of contact first name, last name
      3. The plugin need to make a call to <http://dummy.restapiexample.com/api/v1/update/>
      4. If the response is success from the API, update neu\_updatedTime to current execution time in contact
2. **D365.ConsoleApp**
   1. The console application has two cases:
      1. **Case 1**:
         1. Copy GUID of any contact record from D365.
         2. Based on input for GUID and total income, update the contact record. Note that the total income need to be provided which is not equal to Sum of Employer Salary and Other salary. This should trigger plugin CalculateEmployeeTotalIncome. The end result should be, the console application update should not fail. The value of Total Income for contact in the end should be updated to Sum of Employer Salary and Other salary
      2. **Case 2**:
         1. An input need to be provided by user (input for email address)
         2. The email address provided need to be checked against contact records in D365 system if a contact already exists with same email.
         3. If a contact exists, print “An employee with email : < Input email > already exists”
         4. If contact does not exist, print “An employee with email <Input email> does not exist”

**Note:**

1. Use below credentials to login to D365 system (https://portal.office.com)
   1. Username: [neudesic@neudesicd365codetest.onmicrosoft.com](mailto:neudesic@neudesicd365codetest.onmicrosoft.com)
   2. Password: Interview@1234