## # Introduction

Welcome! We are excited that you want to join us here at Nimbus.cloud and we are extremely grateful that you are investing this time.

## # The Challenge

The Nimbus QA Automation Technical Challenge contains 2 Test Cases that are mentioned below. Please use any Automation tool you would prefer, ideally it would be better if you could use C# as your coding language.

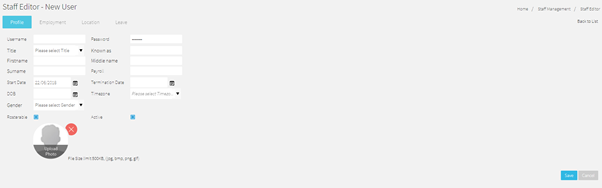
Also to note, upon commencement, the challenge should take no longer than 5 days to complete.

## # The Problem

We would like to automate following 2 Test Cases:

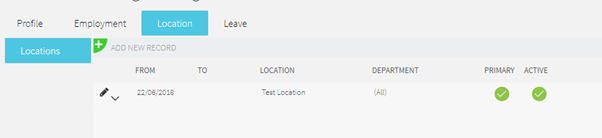
## Test Case # 1 UI Automation

1. Navigate to URL: http://AutoTest.Time2Work.com
2. Login: @Time2Work.com (For e.g. for John Citizen, it will be John@Time2Work.com)
3. Password: @ (For e.g. for John, it would be @John).
4. Click [Login] button and Log in successful.
5. Navigate to http://autotest.time2work.com/Staff/User.aspx
   * Verify that you can see Title [Staff Management]
   * Click [ADD NEW RECORD] Button
   * Username: Enter Random Chars (Length 10) and end with @time2work.com (E.g. 13swdt2dsf@Time@work.com)
   * Password: Enter Password – Reverse of Random Chars used in Username, (E.g. fsd2tdws31)
   * Title: Select 2nd option in Title List
   * Firstname: From Random Chars generated for username, select first 5 chars
   * Surname: From Random Chars generated for username, select last 5 chars
   * Payroll: From Random Chars generated for username, select chars from 3rd to 7th (For example swdt2 for 13swdt2dsf)
   * Start Date: Enter Date in DD/MM/YYY Format, Add 7 Days from today’s Date. (So if today’s date is 22/06/18, enter 29/06/18)
   * Gender: Enter “Female”
   * Timezone: Enter “UTC (Dateline Standard Time)”
   * Untick checkbox Rosterable.
   * Click [Save] Button



Repeat Step 5 **10 times** to create 10 Staffs

1. Navigate to [Location] tab on Staff Profile



* + Click [ADD NEW RECORD] Button
  + From: Enter Date in DD/MM/YYY Format, Add 7 Days from today’s Date. (So if today’s date is 22/06/18, enter 29/06/18)
  + Location: Select/Enter “Test Location”
  + Click [Save] Button

Repeat Step 5 & 6 **10 times** to create 10 Staffs and Locations

## Test Case # 2 API Automation

1. Create User Authentication Token:

* [POST]
* http://autotest.time2work.com/restapi/Authenticate
* [HEADER]
* Accept: application/json  
  Content-Type: application/x-www-form-urlencoded  
  Accept-Encoding: gzip  
  Host: autotest.time2work.com  
  Connection: Keep-Alive
* [Body]
* UserID= <UserID>&Password=@<Firstname>&Username=<firstname>@Time2Work.com
* You will get JSON Response, get AuthenticationToken from the response and store in a variable.

1. Use this Token in the Following Request: [GET] http://autotest.time2work.com/restapi/Report?report=UserReportModel&activeOnly=False&rosterableOnly=False&\_\_ReportFunction=GetStaffList

* [HEADER]
* Content-Type: application/json; charset=utf-8  
  AuthenticationToken: <AuthToken>  
  Accept: application/json  
  UserID: <UserID>  
  Accept-Encoding: gzip  
  Host: autotest.time2work.com
* You will receive JSON, you need to parse this JSON and ensure that your Firstname (Forename) is in the response
* For Example, following is the JSON you would receive, you need to get Forenames and ensure in the list of Value, you have your Forename:
* {  
   "Items": [  
   {  
   "Key": "Results",  
   "Value": [  
   {  
   "UserID": 4081,  
   "Payroll": "166",  
   "Forename": "John",  
   "PreferedName": "",  
   "Surname": "Citizen",  
   "FullName": "John Citizen",  
   "JobRole": null,  
   "PrimaryLocations": "Test Location",  
   "StartDate": "2018-06-22T00:00:00",  
   "Rosterable": False,  
   "Active": true  
   }  
   ]  
   }  
   ],  
   "RecordCount": 1,  
   "LastChange": "0001-01-01T00:00:00"  
  }

## # Deliverables

* Github/Azure DevOps Git repository that has:
  + UI and API Test Script
  + ReadME File that contains following information:
    - Automation Tooling used for the automation and any information you would like to add so that we can set up the environment and evaluate your scripts.
    - Overview on how you would build Continuous Integration to cover the above automation scripts. You do not need to set up CI pipeline, but if you can demonstrate it then it would be very advantageous.
    - If you were unable to do any/all of the above tasks, please document in ReadME. Its not the end of the world! Communication will also be evaluated.

Good Luck!