

## TECHNICAL ASSESSMENTS FOR FRONT-END DEVELOPER

- 1) Sign up an account at <https://gitlab.com>
- 2) Go to these links:
  - i. **PART I: ANGULAR**  
<https://gitlab.com/aem-enersol/interview-test/blob/master/Angular.md>
  - ii. **PART II: ELECTRON**  
<https://gitlab.com/aem-enersol/electron-interview-test/-/blob/master/README.md>
- 3) Read thoroughly the instructions given.
- 4) Complete the assessment.

## TECHNICAL ASSESSMENT FOR BACK-END DEVELOPER

### PART I: .NET APPLICATION

- 1) Please write a .Net application to sync data from REST API into your application database. You should use .net core and SQL server LocalDB for this test. You can create any project type (Console/Web API/any type) that are convenient for you.
- 2) You can find the API information below. you can choose to use postman collection / swagger / both to test the API functionality.
  - i. <https://www.getpostman.com/collections/ed81f3774c5e051c89a9> (postman collection)
  - ii. <http://test-demo.aemenersol.com/index.html> (swagger)
  - iii. username = [user@aemenersol.com](mailto:user@aemenersol.com) & password = Test@123
- 3) Your application is required to do the following
  - i. Login to the Web API.
  - ii. Use the bearer return by the Login function to call GetPlatformWellActual.
  - iii. Store the Platform data on platform table and well data on well table.
  - iv. If data already exist. Please update based on the id. If not exist please insert into respective table.
  - v. Your API should not break when the API return different set of data for example some key are missing or new key is added. However, you are not required to handle the newly added key. Just handle the same key on the original dataset. To test this functionality, you can call the GetPlatformWellDummy.
- 4) When you finish, please upload your solution to any public git repo and share the repo information with us.
- 5) Please let us know how many hour you use to complete this exercise and why you required that time to complete the exercise.

### PART II: SQL QUERY

Based on the table platform and table well you already have on first exercise. Please write SQL Query that would return last updated well for each platform.  
The expected result is as below..

Results

Messages

|   | PlatformName | Id | PlatformId | UniqueName | Latitude   | Longitude  | CreatedAt               | UpdatedAt               |
|---|--------------|----|------------|------------|------------|------------|-------------------------|-------------------------|
| 1 | Platform1    | 1  | 11         | Well11     | 37.062570  | 18.406885  | 2017-11-01 02:41:00.000 | 2018-08-04 02:16:42.000 |
| 2 | Platform2    | 5  | 12         | Well22     | 181.019890 | 92.034426  | 2018-11-24 06:12:26.000 | 2018-08-20 14:59:48.000 |
| 3 | Platform3    | 8  | 13         | Well32     | 289.631824 | 147.255081 | 2015-11-18 23:08:44.000 | 2016-10-20 12:20:45.000 |
| 4 | Platform4    | 10 | 14         | Well41     | 357.894286 | 184.068851 | 2017-04-16 09:55:14.000 | 2018-09-16 19:26:11.000 |
| 5 | Platform5    | 14 | 15         | Well52     | 489.834418 | 257.696391 | 2017-10-29 07:48:12.000 | 2016-01-28 18:30:25.000 |