Assignment#1

**API Name: Company API**

**Purpose of API:**

Company API is a service which helps in looking up company details based on domain name (for e.g. facebook.com, hp.com). API returns various attributes related to the company, such as-

* company legal name,
* phone numbers and e-mails associated with company
* Details on categorization based on services/products offered
* Address
* Details from social handles (facebook, twiter, etc.)
* Contact information

Along with domain name, company to be looked up can be narrowed down by applying additional filters. Which are-

* Company name
* Linkedin name
* Twitter handle name
* Facebook name

**Testing Strategy:**

* Tools To be used:
  + Selenium(Java) with REST Assured
* Scenarios to be tested: Quality analyst will test following scenarios-
  + Validation of Authorization: QA will verify that service provides appropriate error message when incorrect or no authorization is provided while calling API.

Additionally, QA will verify that service responds with valid status when valid authorization is provided

* + Validation of Return Codes: QA will verify that service returns appropriate status code based on conditions mentioned below-

**Code Description**

200 Successful lookup, company encoded in the response body.

202 Asynchronously looking up the company.**(May have to simulate the test)**

404 Company not found.

422 Domain name is invalid.

* + Validation of Returned data format: QA will verify that service returns data in valid JSON format. JSON Schema will have to be constructed based on specifications and all responses will be validated against the schema. In case JSONPath Schema is not available, presence of each attribute will have to be validated.
  + Validation of Returned data values: QA will verify that service returns valid data values for a given set of input Parameters
  + Validation of other attributes: QA will verify that service is able to respond with filtered result based on additional parameters provided.

Please note that these will be expanded into multiple test scenarios based on various data combinations. Please refer to SampleTestData.xlsx for the same.