**Full Stack Developer Assessment - Full**

**BackEnd**

Our client needs to create and read comments for each flight they have in our system, with the following information:

* ID
* Comment
* Date
* UserId
* FlightId
* Tags

Due to that, we need you to create 2 endpoints using Node Js:

1. Create comment

You will receive the following information:

* Comment: String (mandatory)
* UserId: Number (mandatory)
* FlightId: Number (mandatory)
* Tags: String Array (optional)

You have to save the information in the database that you want (Mysql or Mongo) creating a unique ID.

1. Retrieve comments

Create an endpoint to retrieve the list of comments for a specific flight ID. You will receive the FlightID and it should return a JSON with the comments.

*Nice to have*

* Express framework
* HTTP Verbs
* Data Validations
* Manage duplicates
* Postman Collection
* Extra functionalities (Sort, Filter …)
* Database: Mongo or Mysql
* Develop using SOLID
* Unit Test
* Documentation

**Frontend**

To create and show the comments, our client needs a web page (SPA) developed in Angular 12 + with the following’s components:

* Sidebar to show the list of flights: When the user clicks in a flight, the information in the table should change (The list of flights can be hardcoded in the code or in the database).
* Table to show:
  + Comment ID
  + Comment
  + User
  + Tags
* Button and form to create a new comment.

*Nice to have*

* Use of SASS
* UI/UX Design
* Angular Material
* Data Validations
* Unit Tests
* Documentation
* Pagination – Sort – Filters – Search box
* Responsive Design
* SOLID principle

**Javascript**

Given an array of URLs and a MAX\_CONCURRENCY integer, implement a function that will asynchronously fetch each URL, not requesting more than MAX\_CONCURRENCY URLs at the same time. The URLs should be fetched as soon as possible. The function should return an array of responses for each URL. How would you write a test for such a function?