**Software Developer Intern Test**

**Daniel Opare-Addo**

**Instructions**:

* This Google Form is designed to assess your skills in Angular (HTML, CSS, TypeScript, JavaScript), API integrations, database management, Figma, independence, and active listening.
* Read each question carefully and provide your responses in the designated fields.
* For coding questions, use the provided code editor within the form.
* Feel free to use any relevant tools or resources to complete the tasks.

**Angular (HTML, CSS, TS, JS):**

**HTML & CSS:**

Create a simple HTML page with a form that includes fields for name, email, and a submit button. Style the form using CSS to make it visually appealing.

**Angular Component:**

Create an Angular component that displays a list of items. Use TypeScript and HTML to fetch and display this list. Assume the list is retrieved from a mock API endpoint.

**JavaScript:**

Write a JavaScript function that takes an array of numbers as input and returns the sum of all even numbers.

**ANSWER**

function sumEvNums(evenArray) {

return evenArray.reduce((accumulator, number) => {

if (number % 2 === 0) {

return accumulator + number;

} return accumulator

}, 0);

}

**API Integrations:**

**API Request:**

Using Angular, make a GET request to the following JSONPlaceholder API endpoint: https://jsonplaceholder.typicode.com/posts/1. Log the response to the console.

**API Integration:**

Integrate the same JSONPlaceholder API into your Angular component created in question 2. Display the list of posts from the API in your component.

**Database Management:**

**Database Query:**

Assume you have a MySQL database with a table named "users" containing columns (id, name, email). Write an SQL query to select all users whose names start with the letter 'A'.

**ANSWER**

SELECT \* FROM users WHERE name LIKE 'A%';

**Figma:**

**Figma Design:**

Create a simple UI design for a login page using Figma. Include fields for username and password, as well as a login button. Share the Figma link.

**ANSWER**

<https://www.figma.com/file/g3Fs8nRA1R6ppQtXwbpd5n/LOGIN-page?type=design&node-id=0%3A1&mode=design&t=ki6QF11Kn81DURuV-1>

**Independence & Active Listening:**

**Independence:**

Describe a situation where you had to independently troubleshoot and solve a technical problem. What steps did you take, and what was the outcome?

**ANSWER**

As I engage in coding activities on a regular basis I encounter numerous challenges with respect to bugs and my codes not compiling sometimes.

Usually I would first ensure that I understand the error or problem and try to figure out the point from which it is coming from.

Once I am able to localize the problem I would then do my best to do some research, by using google to understand what the error or problem means and to find out if others have encountered the same problem.

Base on the experiences of others and the solutions they found I would be able replicate their solutions into my code to debug and resolve my problem. Sites like stackoverflow.com is always of great help.

In case I don’t find specific solutions I further research using documents related to the problem I have encountered and also do my best to watch related videos on YouTube especially to resolve the problem.

Sometimes I go as far as watching some tutorial or course videos to be able to pinpoint how to resolve the specific problem.

As an example of such an experience I would state my experience with the Angular Framework.

Though I am quite familiar with the Angular Framework, I had a few challenges being able to retrieve data using the JASON placeholder API.

However, I have used the above stated methods to resolve all the Angular related problems and I was finally able to retrieve all the data.

**Active Listening:**

During a collaborative coding project, how do you ensure you actively listen to and understand the ideas and concerns of your team members? Provide an example.

**ANSWER**

Actively listening to understand the ideas and concerns of your team members is one of the most essential practices one has to adhere to during any project development and everyday life.   
It is the only way one can ensure the success of any project as teamwork enhances the beauty of any project.

The contributions of others not only adds value but pushes any project to its highest pedestal in terms of progress and success.

During a real life experience where I had to develop a software for a local restaurant here in Accra – Ghana. I had to collaborate and listen to the concerns of the restaurant owners and the restaurant manager to understand how best we could work together to ensure the software helps the manager as well as the owners with respect to record entering and sales monitoring.

Questions from all parties were asked and clarified, I kept a much opened mind to ensure that I delivered exactly what they wanted and I’ve been doing my best to always collect feedback and advice every step of the way whiles I respectfully put across my suggestions and opinions. The restaurant has been using the software comfortably for the past 9 months.