**Take-Home Assignment**

# **Questions:**

1. **What is a headless CMS?**

CMS stands for Content Management System. Therefor headless CMS is basically a headless Content Management System that emphasis on backend and works as content repository that can be accessed via API and display on any device. Some of the modern day example: Wordpress,Strapi.

**How can you use wordpress Posts to create a Static Javascript Blog?**

We can use our static version of Headless Wordpress and take the api to integrate with a new framework Gatsby which is built with React.js.

1. **What is an API?**

API is the acronym for Application Programming Interface, which is on ground allows two applications to communicate with each other. The concept of API was built to make communication between multiple software intermediaries.

**Differentiate between GraphQL and RestFull API:**

GraphQL is Query Language that is built and developed by Facebook. The main difference between Rest API and graphQL is, Rest API requires multiple endpoints and provides few more additional data where as in GraphQL all a developer need to do is write the query and get the concrete set of data.

1. **How would you Fetch Data from a Third-Party API and create Front end components in WordPress?**

Usually I use Axios library to fetch data in any kind of JavaScript framework. Since this is Wordpress, after going through the wordpress developer handbook I found out wordpress uses wp\_remote\_get() hook to fetch data from any third-party or remote api.

So here is my solution.  
I will develop a Plugin that will eventually have a public frontend representation of data.

I will use add\_shortcode hook to add a shortcode that will take a function that echo or print the response weather from openweathermap.org through wp\_remote\_get($url) hook.

1. **What were the major challenges you faced during the assignment?**

The main challenge for me during the assignment was to get familiar with wordpress framework. To understand how plugins work and their life cycle.

**How did you overcome?**  
As a Python and Node.js developer to be honest I didn’t focus on PHP much before. After getting comfortable with PHP I jumped into wordpress developer documentation. Plugin Handbook helped me with everything I did in the assignment.

**In conclusion,** I believe I can come to my full potential over time, as a fast learner it would take me a month to master the art of Wordpress Plugin Development. I am more than happy to take part in this assessment session, it will be a great opportunity for me and my career to be part of the development team and work with this stack of development.