# Q&A Section

Fully working codes are optional here, but if they help you to convey your ideas or articulating your concepts, feel free to incorporate them. Sky is the limit!

1. Explains the concept of WordPress Hooks and their practical usage. Additionally, how would you create custom hooks, and how would you remove a registered hook. Bonus: What priority/order means in WordPress Hooks ?

2. Which tools, functions, or features in WordPress would you employ to enhance the security and safety of your plugins or themes? Please elaborate on the specific scenarios in which you would utilize each of these measures.

3. Your friendly neighbor said: "Your plugin slowing down my WordPress site!". No context whatsoever, it could be your backend codes or frontend codes, or maybe not even your codes, but something else in their website!

   - You have access to everything: your codes that you can debug locally in your machine, the site admin credentials, the server credentials, the database server credentials, and you are allowed to do anything you want.
   - Elaborate steps that you would do to identify the issue
   - What tools you would use, and what are the reasons behind using these tools.

4. Share your thoughts on the concept of Modern PHP. And in your view, what distinguishes a codebase as reflecting Modern PHP principles, and how would you integrate these principles into the WordPress environment?

5. jQuery or no jQuery ?. Anyway, provide insights into how you would seamlessly integrate ReactJS into your WordPress plugin, what is the benefits and challenges of using ReactJS in WordPress environment?.

6. Automated Testing and WordPress Coding Standards:
   - Outline the importance of Automated Testing.
   - With the best of your knowledge and experience, what tools or framework or libraries that you will use to achieve Automated Testing within your WordPress project?
   - How familiar are you with WordPress Coding Standards, and how do you ensure your codebase consistently aligns with them?
   - How would you integrate both Testing and Coding Standards into CI/CD ?
   - Bonus: How would you maintain the quality of the Automated Testing?

7. We want to know you better:
   - Which main Code Editor/IDE you are using, and what makes it your preferred choice? Additionally, could you share the plugins/extensions you use with it, explaining their significance in enhancing your coding experience?

- AI this, AI that. Do you utilize any AI tools to enhance your daily workflow, and if so, which ones?

# Coding Section

In this section, there's no need to overly complicate things. We're simply looking to gauge your proficiency in WordPress Coding Standards, code performance/efficiency, and security practices. Impress us with your expertise in these key areas.

## Complete and/or improve this plugin

The exact stuff that this plugin do will be up to you, below snippets are just an abstract of what the plugin could do, which are:

- Have a custom table in WordPress DB, and able to do Read and Write operations with it.
- Have a shortcode to display a form that accept user input, and then insert it into the custom table
- Have a shortcode to display the data from the custom table, with search functionality.

```php
/*
 * Plugin Name:
 * Plugin URI:
 * Description:        Make Magic
 * Version:
 * Requires at least:
 * Requires PHP:
 * Author:
 * Author URI:
 * License:
 * License URI:
 * Update URI:
 * Text Domain:
 * Domain Path:
 */

add_action( 'init', 'my_init' );

function my_init() {
    maybe_create_my_table();
    add_shortcode( 'my_form', 'my_shortcode_form' );
    add_shortcode( 'my_list', 'my_shortcode_list' );
}

function maybe_create_my_table() {
    $sql = "CREATE TABLE `things`";
}
```

```
function my_shortcode_form() {
    insert_data_to_my_table();
    <<<FORM
    <form method="POST">  <input type="text" name="thing's name">  </form>
    FORM;
}

function my_shortcode_list() {
    $data = get_my_table_data();
}

function get_my_table_data( $page, $per_page, $orderby, $order, $search )
    return [];
}

function insert_data_to_my_table() {

}
```

# Bonus

- Create class or functions or both, that demonstrating your ability to extend WordPress REST API to expose Insert and Select on above table
    - Hint: Custom Endpoints.