

Web Developer Hands-on Exam (Basic Level)

IMPORTANT NOTES:

- Create a simple website with Registration, Log-in and Content Management System (CMS).
- This exam is divided in two (2) parts the 1.) Website which will display contents managed by CMS, 2.) Content Management System (CMS) which will manage contents that will display on a website
- You must use **PHP** as the main programming language and **MySQL** as database. If applicable to your skill, please try to apply OOP (Object Oriented Programming) and PDO style as this will greatly impact your score.
- You are also allowed to apply Javascript, JQuery, Ajax and JSON if applicable
- You must be able to plan for your own database schema, table structures and connect your system later to it.
- Design is less of a priority, most of the points will be graded based on your code. But if you still have time, it will be additional points if you apply some front-end design.

DEVELOPMENT:

- **The CMS of the Website will have the following functions:**
 - **Login Page**
 - The CMS does not need registration to be able to login. You must create a database table with existing admin user. It is okay even if the password is not hash or encrypted.
 - Login must have validation for correct username and password
 - Redirect the admin to CMS Dashboard after successful login
 - **Dynamic Page Creation**
 - The CMS must have a facility to add page and the menu name will be called **Pages**. Clicking Pages must redirect the admin to Pages list page in table list display with the following columns:
 - Page Title
 - Status (Published/Not Published)
 - Action (This will display the shortcut icons for Edit and Delete)
 - The page list page must also have a shortcut or button above the page and labeled **Add Page**. Pages added here will be displayed later from the website.

- The **Add Page** must have the following fields below with Save button for inserting the page from the database:
 - **Page Title** - This is a required field and must accept letters only at a minimum of 3 characters at least.
 - **Page Description** (Nice to have WYSIWYG editor) - This is a required field
 - **Published** (A checkbox for activating/deactivating the page)
- All added or saved pages can be:
 - Edited with same fields and validations from Add Page
 - Can be deleted with Confirmation before deleting
- **Manage Users**
 - The CMS must also have a facility to show registered users from the website and the menu name will be called **Users**. The Users page will be in table list display with the following columns:
 - Username
 - First name
 - Last name
 - Email address
 - Date Registered
- **Logout**
 - Must destroy the admin session and must not be able to visit the CMS when already logged out.
- **The main Website will have the following functions:**
 - **Registration Page**
 - The registration page must have the following fields:
 - First Name
 - Last Name
 - Email Address
 - Username
 - Password
 - Confirm Password
 - Please apply the necessary validations below:
 - All fields are required
 - First Name and Last Name must accept letters only.
 - Email address must accept only valid email address format.
 - Username must be at least 6 characters and alphanumeric only.

- Must have validation if username already exists.
- Password must be at least 8 characters with combination of at least 1 uppercase letter, at least 1 number, lowercase letters and special characters.
- **Login Page**
 - Create a login page for registered members that must accept valid username and password
 - Redirect the user to the Home page of your website after successful logged in.
- **Website**
 - Create a default home page for your website with Home menu together with the other menus from lists of saved and published pages from the CMS.
 - You can use AJAX or PHP conditions to be able to navigate between pages or whatever means necessary to view the page
 - Navigated pages must show the Page Title and then the Page Description
- **Logout**
 - Must destroy the user session and must not be able to visit the website when already logged out.