PENRO Management System Guide

**Version history**

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| **Version #** | **Author** | **Date Modified** | **Date Signed-Off** |
| 0.1 | Carlo Magandi | 09-11-2024 |  |
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**Introduction**

This guide provides high level overview of the features and functionalities of our web application. It is designed to help users understand and navigate through the application’s core elements, focusing on both security and design aspects.

**Security**

1. **Authentication**
   1. User’s login
   2. Forgot Password
   3. Signup
2. **Authentication**
   1. Role based account
      1. ADMIN- Has access to all page, can access Accounts management, can view reports, can approve request, can manage data
      2. STAFF- Limited access to pages such as Account management, can create a request for a donation
   2. Page restriction
   3. Account status approval
3. **Bind Params**
   1. Used in sql query to avoid sql injection attacks. This bind params uses parameter that we need to bind on WHERE condition instead of directly calling the variable.

**Styles**

1. Dashboard – Displays the summary details related to trees/logs and illegal activities
2. Dark & Light mode- Additional styling for the system, use a session functionality for a browser refresh.
3. Bootstrap- For a responsive display, theme that includes font, color, icons and to minimal custom styling.
4. Datatable- A library to create a table that includes the following:
   1. Style
   2. Search functionality
   3. Pagination
   4. Header Sort
   5. Footer search
5. Sweetalert2- A library that uses a javascript structure to create a responsive alerts/ modal

**Logic and Functionalities**

1. **Javascript**- Used for common button functionality such as calling a button based on ID to run a specific function code.
2. **Ajax JQUERY**- Used to call the php backend code so it can handle the page load. The difference between using a form action(php) and Ajax is that in form, when we click the submit button, it will automatically reload the page which is not good when it comes to network performance.
3. **Session and Cookie-** Use for logics to store a value temporarily. Those value doesn’t require to store in database. Examples are: Remember me, Username display, dark mode, tab display and routing to designated page.

**Modules Function**

**Admin**

1. **Dashboard Module**
2. **User’s Authentication module**
   1. Login
   2. Sign-Up
   3. Registration
   4. Password reset
   5. Session management
3. **Account Management Module**
   1. Manage Accounts
   2. Manage Roles
4. **Inventory Module**
   1. Table view
      1. Initial details
      2. Full details
         * Unlink function
      3. Maps view
   2. Card View
5. **Request Module**
   1. Request Approval view
6. **Reports Module**
   1. Print the summary report based on the date selected from date picker.
7. **Manage reference data**
   1. Manage static data (option set data), used in dropdown menu
8. **Monitoring Module**
   1. Request Items
   2. Donations