actionhistory.php
CODE DOCUMENTATION

T he code below creates a table with column headers. The table will have the class "table table-striped" and the column headers will have the class "thead-dark". There are nineteen columns in total. The first column is titled "Id", the second column is titled "Employee", and so on.

```html
            <th scope="col">Id</th> <!-- One column is set here, each one is a column -->
            <th scope='col'>Employee</th>
            <th scope="col">Unit-Level</th>
            <th scope="col">Seed ID</th>
            <th scope="col">Type</th>
            <th scope="col">Treat</th>
            <th scope="col">Humidity</th>
            <th scope="col">Temperature</th>
            <th scope="col">Plant</th>
            <th scope="col">Planted Weight</th>
            <th scope="col">Planted Plugs</th>
            <th scope="col">Transplant</th>
            <th scope="col">Transplanted To</th>
            <th scope="col">Transplanted Pots</th>
            <th scope="col">Harvest</th>
            <th scope="col">Harvested Weight</th>
            <th scope="col">Harvested Pots</th>
            <th scope="col">Date</th>
        </tr>
    </thead>
```

Caption

The code below continues the table by adding rows of data.

```php
<tbody>

    <?php foreach($data as $row): ?>
        <!-- This code loops through each row of data -->

    <tr>
        <!-- A new row is created for each loop -->

        <td><?= $row['id']; ?></td>
        <!-- The first column of data is the id -->

        <td><?= $row['employee']; ?></td>
        <!-- The second column is employee -->

        <td><?= $row['unitLevel']; ?></td>


        <td><?= $row['seedId']; ?></td>

        <td><?= $row['type']; ?></td>

        <td><?= $row['treat']; ?></td>

        <td><?= $row['humidity']; ?></td>

        <td><?= $row['temperature']; ?></td>

        <td><?= $row['plant']; ?></td>
                <td><?= number_format($row['plantedWeight']);
                // formatting plantedWeight decimals ?>

                </td>
                <!-- number_format rounds to 2 decimal places -->

        <td><?= $row['plantedPlugs']; ?></td>

        <td><?= $row['transplant']; ?></td>

                <td><?= $row['transplantedTo']; ?></td>

                <td><?= $row['transplantedPots']; ?></td>

                <td><?= $row['harvest']; ?></td>

                <td><?php if ($row['harvest'] == 'Y') {
                // only show weight if harvest is yes echo number_format($row['harvestedWeight']); // formatting harvestedWeight decimals }
                ?></td>
                <!-- if statement only displays data if the harvest column is equal to 'Y' -->

        <td><?php if ($row['harvest'] == 'Y') {
        // only show pots if harvest is yes echo $row['harvestedPots']; }
        ?></td>
        <!-- if statement only displays data if the harvest column is equal to 'Y' -->
```

The code above loops through each row of data and adds it to the table. The first column of data is the id, the second column is employee, and so on. The plantedWeight and harvestedWeight columns are formatted to have two decimal places. The date column is shortened to just YYYY-MM-DD. The harvestedWeight and harvestedPots columns will only be displayed if the harvest column is equal to 'Y'.

```php
The code below calculates the number of rows in the table.


    <?php $num_rows = count($data); ?>
    <!-- Counts the number of rows in the data array -->

    <p>
        <!-- This is a paragraph tag -->

        There are <?= $num_rows ?> plants.
        <!-- Prints the number of rows -->

    </p>
```

The code above calculates the number of rows in the table and displays it in a paragraph tag.

```php
The code below calculates the total weight of all the plants in the table.


    <?php $total_weight = 0; // initialize total weight to zero ?>

    <?php foreach($data as $row): ?> <!-- This loops through each row in the data array -->
```

```php
<!-- SQL operations, done in PHP -->
<?php
$sql = "SELECT * FROM `actions_table` ORDER BY actions_id DESC";
$result = mysqli_query($conn, $sql);
// Start a while loop, we will do everything inside this loop.
while($row=mysqli_fetch_assoc($result)){
        $actions_id = $row['actions_id'];   // one variable can be seen here, each one is a variable
        $employee_name = $row['employee_name'];
        $unitlevel_name = $row['unitlevel_name'];
        $seed_id = $row['seed_id'];
        $treat = $row['treat'];
        $humidity = $row['humidity'];
        $temperature = $row['temperature'];
        $plant = $row['plant'];
        $planted_plugs=$row['planted_plugs'];
        $planted_weight=$row['planted_weight'];
        $transplant = $row['transplant'];
        $transplanted_to = $row['transplanted_to'];
        $transplanted_pots = $row['transplanted_pots'];
        $harvest = $row['harvest'];
        $harvested_pots = $row['harvested_pots'];
        $harvested_weight = $row['harvested_weight'];
        $action_date = $row['action_date'];
?>
```

This is the PHP code responsible for retrieving data from the actions_table in the database and displaying it on the page. The first line of code retrieves all data from the table, sorted by actions_id in descending order. This ensures that the most recent actions are displayed at the top of the page.

Then, a while loop is used to iterate through each row of data in the actions_table. For each row, the corresponding values are retrieved and stored in variables. These variables are then used to display information about the action on the page.

The action_date variable is particularly important, as it is used to determine when each action took place. This allows users to see a history of all actions that have been taken, in chronological order.

```html
<tr>
        <th scope="row"><?php echo $actions_id;?></th>
                <td><?php echo $employee_name; ?></td>
                <td><?php echo unitlevel_name_converter($unitlevel_name); ?></td>
                <td><?php echo $seed_id; ?></td>
                <td><?php echo seed_name_converter(seed_type_converter($seed_id)); ?></td>
                <td><?php echo $treat; ?></td>
                <td><?php echo $humidity; ?></td>
                <td><?php echo $temperature; ?></td>
                <td><?php echo $plant; ?></td>
                <td><?php echo $planted_weight; ?></td>
                <td><?php echo $planted_plugs; ?></td>
                <td><?php echo $transplant; ?></td>
                <td><?php echo unitlevel_name_converter($transplanted_to); ?></td>
                <td><?php echo $transplanted_pots; ?></td>
                <td><?php echo $harvest; ?></td>
                <td><?php echo $harvested_weight; ?></td>
                <td><?php echo $harvested_pots; ?></td>
                <td><?php echo $action_date; ?></td>
        </tr>

<!-- Stop the while loop -->
```

This is the code for displaying a single row of action history data in a tabular format. The first column is the actions_id, which is the unique identifier for this particular action. The second column is the employee_name, which is the name of the employee who performed the action. The third column is the unitlevel_name, which is the name of the unitlevel on which the action was performed. The fourth column is the seed_id, which is the id of the seed used in this action. The fifth column is the seed type, as determined by the seed_id. The sixth column is the treat, which specifies whether this action was a treatment or not. The seventh column is humidity, which is the humidity at the time of this action. The eighth column is temperature, which is the temperature at the time of this action. The ninth column is plant, which specifies whether this action was a planting or not. The tenth column is planted_weight, which is the weight of the plugs planted in this action. The eleventh column is planted_plugs, which is the number of plugs planted in this action. The twelfth column is transplant, which specifies whether this action was a transplanting or not. The thirteenth column is transplanted_to, which is the unitlevel to which the plants were transplanted in this action. The fourteenth column is transplanted_pots, which is the number of pots transplanted in this action. The fifteenth column is harvest, which specifies whether this action was a harvesting or not. The sixteenth column is harvested_weight, which is the weight of the plants harvested in this action. The seventeenth column is harvested_pots, which is the number of pots

harvested in this action. The eighteenth and final column is action_date, which is the date on which this action was performed.