

# Updates to Volunteer Hours App

Prepared by The Woodland Rangers UGA MBT Capstone Project

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The purpose of this document is to describe the updates that were implemented to the existing version of the Volunteer Hours Application as of April 5, 2018. These updates are listed below:

- Updated the app to PHP 7.2
- Resolved the MySQL deprecation for later versions of PHP
- Added the Section field to the Add New Volunteer Hours page
- Replaced the Volunteer Dashboard with Left-side bar for navigation menu
- Added the Login name to the left-side bar of each page
- Added the disabled selection setting to Project and Section fields' drop-down window
- Changed the background color to a more neutral color (See Figures 1 and 2)
- Changed the color of the View Hours table for better contrast with the background

NOTE: Earlier versions of PHP used the MySQL extension. However, this extension was deprecated in 2012 which means that MySQL extensions are considered obsolete for PHP 7 and later versions. PHP 7 and later can work with a MySQL database using:

- MySQLi extension (the "i" stands for improved)
- PDO (PHP Data Objects)

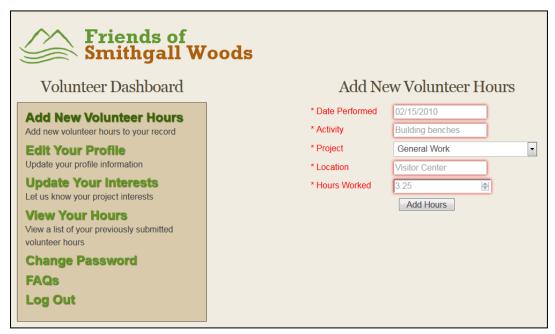


Figure 1. 2011 Version of Volunteer Hours App



Figure 2. 2018 Version of Volunteer Hours App

## PHP and MySQL Updates

The previous version of the app was running under PHP 5.6 that used the older version of MySQL database extension to manage the app database. In order for the app to continue running with later versions of PHP for security reasons, the MySQL extension had to be updated to MySQLi extension for the app files listed in Table 1.

Table 1. Updated PHP Files

PHP Files with MySQLi Extension	
1. add_hours.php	11. database_connect.php
2. change_pswd.php	12. db_functions.php
3. edit_profile.php	13. interests_functions.php
4. interests.php	14. projects_menu.php
5. show_hours.php	15. show_hours_functions.php
6. reset_pswd.php	16. submit_account_functions.php
7. update_hours.php	17. update_hours_functions.php
8. update_interests.php	18. update_interests_functions.php
9. update_profile.php	19. update_profile_functions.php
10. update_pswd.php	20. user_functions.php

#### **Example of MySQLi Extension Usage**

For "database\_connect.php" file, the mysqli\_connect function is used to establish connection to the Volunteer database.

```
$dsn = 'localhost';
$username = 'username';
$password = 'password';
$db_name = 'database_name';
$conn = mysqli_connect($dsn, $username, $password, $db_name) or
die("Connection failed: " . mysqli_connect_error());
```

For displaying volunteer's interests, an example of mysqli extension usage is shown below. NOTE: Whenever a built-in PHP function is used, the syntax "global \$conn;" must be included to access the global variable "\$conn" from within a function.

```
function show_interests(){
    global $conn;
    $memberId = (int) $_SESSION['memberId'];
    $member_interest = get_member_interests();
    $sql = ("SELECT field_1, field_2 FROM Table_Name");
    $interest_list = mysqli_query($conn, $sql) or die('ERROR: '.mysqli_error($conn));
    .......;
}
```

For updating a user password, an example of mysqli extension usage is shown below. NOTE: When mysqli\_error function is used, the variable "\$conn" that was defined previously inside the "database\_connect.php" file must be included inside the parenthesis as shown below. The use of PHP's global keyword is NOT required here.

#### **Section Field Addition**

The Section field was added as a drop-down window to the "Add New Volunteer Hours" page to categorize the volunteer hours as Smithgall Woods and Hardman Farm. See example below.

# **Left-side Bar Navigation Menu**

The Volunteer Dashboard was replaced with left-side bar navigation menu to improve the app's mobile-friendly feature and user experience design. The script and stylesheet settings are shown below.

```
<div id="leftCol">
  <div id="dashboard">
  Hello <?php echo $profile[firstName] ?>!
    Add New Volunteer Hours
    <a href="edit profile.php">Edit Your Profile</a>
    <a href="interests.php">Update Your Interests</a>
    <a href="show hours.php">View Your Hours</a>
    <a href="change_pswd.php">Change Password</a>
    <a href="fag.html" target = " blank">FAQs</a>
    <a href="logout.php">Log Out</a>
  </div>
</div>
               67 /*----Dashboard----*/
               69 = #dashboard table td {
               70
                     border-right: 1px solid #ccc;
               71
                     border-bottom: 1px solid #ccc;
               72
                     text-align: left;
               73
                     background-color: #f1f1f1;
               74
```

# **Login Name Addition**

The login name was added to each app page to show who is currently logged in.

### **Disabled Selection Setting**

The disabled selection setting was added to the Project and Section fields' drop-down window for better user experience.