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The phpproject folder

This folder is incomplete. Copy the unzipped folder into your **htdocs** folder and follow the instructions in Chapter 13 of the book to complete the project.

Some useful SQL code and PHP code snippets for the project are given below (from Page 3 onwards).

The phpproject-complete folder

This folder contains the suggested solution for the project. To test the code, do the following:

1. Copy the unzipped folder into your **htdocs** folder

2. Refer to Section 13.4 in the book for instructions on creating the database, user account and tables. The password used in the suggested solution is "ABCD" (without quotes). If you use a different password, change the password accordingly on line 13 in the **Database.php** file. This file is found in the **phpproject-complete/includes/classes** folder.

3. Refer to Section 13.9 in the book for instructions on running the code (replace **phpproject** with **phpproject-complete** for the URLs).

Note: If you have prepended the **debugging.php** file previously (whether it is the file in Chapter 12 or the file in the **phpproject** folder), you do not need to prepend it again.

If you have yet to prepend the file, the code to use is

```
auto_prepend_file="<DOCUMENT_ROOT>/phpproject-complete/includes/debugging.php"
```

where `<DOCUMENT_ROOT>` refers to the actual path of your **htdocs** folder.

SQL Code

To create the database and tables:

```
USE project;

CREATE TABLE IF NOT EXISTS members (
     username VARCHAR(100) PRIMARY KEY,
     password VARCHAR(255) NOT NULL,
     is_admin BOOLEAN DEFAULT false,
    last_viewed int DEFAULT 0
);

CREATE TABLE IF NOT EXISTS posts(
     id INT AUTO_INCREMENT PRIMARY KEY,
     post_date TIMESTAMP DEFAULT NOW() NOT NULL,
     username VARCHAR(100) NOT NULL,
    title VARCHAR(255) NOT NULL,
     post TEXT NOT NULL,
    audience INT NOT NULL,
     CONSTRAINT FOREIGN KEY (username) REFERENCES members(username)
ON DELETE CASCADE
);
```

To change a member account to an admin account (replace `YOUR_ADMIN_USERNAME` with the username you want to convert to an admin user):

```
UPDATE members SET is_admin = 1 WHERE username =
'YOUR_ADMIN_USERNAME';
```

Useful Code Snippets/Pseudocode

Helper.php

```php
switch ($type){
    case 'textbox':
        echo "value = '$val'";
        break;
    case 'textarea':
        //Add code here
    case 'select':
        //Add code here
    default:
        echo '';
}
```

Database.php

Snippet 1

```php
foreach($values as $valueToBind){
    $stmt->bindValue($valueToBind[0], $valueToBind[1]);
}
```

Snippet 2

```
if ($mode is not equal to SELECTSINGLE, SELECTALL and EXECUTE){
    throw an Exception
    using 'Invalid Mode' as the error message
}else if ($mode equals SELECTSINGLE){
    use $stmt to call the fetch(PDO::FETCH_ASSOC) method
    and return the result using the return keyword
}else if ($mode equals SELECTALL){
    use $stmt to call the fetchAll(PDO::FETCH_ASSOC) method
    and return the result using the return keyword
}
```

BlogReader.php

Snippet 1

```
$sql = "SELECT id, unix_timestamp(post_date) as `post_date`,
username, title, post, audience FROM posts WHERE audience <=
:audience ORDER BY id DESC";
```

Snippet 2

```
$values = array(
    array(':audience', $this->type)
);
```

Snippet 3

```
$result = $this->db->queryDB($sql, Database::SELECTALL, $values);
```

BlogMember.php

Snippet 1

```
SELECT count(username) AS num FROM members WHERE username = :username
```

Snippet 2

```
INSERT INTO members (username, password) VALUES (:username,
:password)
```

Snippet 3

```
$values = array(
    array(':username', $this->username),
    array(':password', password_hash($pPassword, PASSWORD_DEFAULT))
);
```

Snippet 4

```
SELECT password FROM members WHERE username = :username
```

Snippet 5

```php
if (isset($result['password']) && password_verify($pPassword,
$result['password']))
    return true;
else
    return false;
```

Snippet 6

```sql
SELECT max(id) AS max FROM posts
```

Snippet 7

```php
$max = $this->getLatestPostID();
```

Snippet 8

```sql
UPDATE members SET last_viewed = :max WHERE username = :username
```

Snippet 9

```sql
SELECT last_viewed FROM members WHERE username = :username
```

Admin.php

Snippet 1

```sql
SELECT password FROM members WHERE username = :username AND is_admin
= true
```

Snippet 2

```sql
INSERT INTO posts (username, title, post, audience) VALUES
(:username, :title, :post, :audience)
```

p-read.php

Snippet 1

```php
if ($is_member){
    //Create a BlogMember object and use it to call the
getLastViewedPost() method
}else{
    //Create a BlogReader object
}

// Call getPostsFromDB() method

if ($posts == false){
    //include the blankcard.html file
}else{
    //use a foreach loop to process the elements in $posts
    //include the messagecard.php file
}

if ($is_member)
{
    //include the logout.html file

    if ($update)
        //use the BlogMember object to call the
updateLastViewedPost() method
}
```

Snippet 2

```php
include "output_code/blankcard.html";
```

Snippet 3

```php
foreach($posts as $result)
{
    $msgid = $result['id'];
    $title = htmlspecialchars($result['title']);
    $post = strip_tags($result['post'],
"<strong><em><p><ol><ul><li><a>");
    $username = htmlspecialchars($result['username']);
    $postdate = htmlspecialchars($result['post_date']);

    include "output_code/messagecard.php";
}
```

messagecard.php

Snippet 1

```php
<?php
    if ($is_member and $lastPost < $msgid)
    {
        echo '<span class = "new-post">NEW</span>';
        $update = true;
    }
?>
```

index.php

Snippet 1

```php
<div class = "new">
    <?php
        if (isset($_GET['new']))
            echo 'ACCOUNT CREATED SUCCESSFULLY';
    ?>
</div>
```

Snippets for Using keepValues()

Textbox
```php
<?php $h->keepValues($tb, 'textbox');?>
```

Textarea
```php
<?php $h->keepValues($ta, 'textarea'); ?>
```

Dropdown List
```php
<?php $h->keepValues($sl, 'select', '1'); ?>
```

write.php
```php
<input id = "txttitle" type="text" name="title" placeholder="Enter
Title" autofocus <?php if ($msg != 'Message saved successfully')
$h->keepValues($title, 'textbox'); ?>>
```