## File 1

```
about
```

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Dominic A Cooper's Site</title>
    <!-- Link to external CSS file -->
    <link rel="stylesheet" href="style.css">
</head>
<body>
    <header>
        <h1>Hello World!</h1>
        <hr>>
    </header>
    <main>
        <section>
            My name is Dominic A Cooper
            This site is being created ad-infinitum. Dedicated to completing
the study and use of Mathematics. To be an Engineer. 
        </section>
        <hr>>
    </main>
    <footer>
        <a href="index.php"><button>Home</button></a>
    </footer>
</body>
</html>
```

## File 2

PROFESSEUR: M.DA ROS

```
admin
```

```
<?php
session_start();</pre>
```

```
// Check if the user is logged in
if (!isset($_SESSION['logged_in']) || $_SESSION['logged_in'] !== true) {
    header('Location: login.php');
    exit;
}
// Define the base directory
$base_dir = __DIR__;
// Get the current directory from the query string or default to the base
directory
$current dir = isset($ GET['dir']) ? realpath($base dir . '/' . $ GET['dir']) :
$base dir;
if (strpos($current_dir, $base_dir) !== 0) {
    $current dir = $base dir; // Prevent directory traversal attacks
}
// Function to evaluate script (mock for educational purposes)
function evaluate script($code) {
    // IMPORTANT: In a real system, replace this with a secure sandboxed
interpreter
   eval($code);
}
// Breadcrumb navigation
function breadcrumb($dir) {
    $base_dir = __DIR__;
    $parts = explode(DIRECTORY SEPARATOR, str replace($base dir, '', $dir));
    echo "<nav><a href='?dir=" . urlencode($base_dir) . "'>Home</a> / ";
    $path = $base_dir;
    foreach ($parts as $part) {
        if ($part) {
            $path .= DIRECTORY_SEPARATOR . $part;
            echo "<a href='?dir=" . urlencode($path) . "'>" .
htmlspecialchars($part) . "</a> / ";
    echo "</nav><br>";
}
// List files and directories
function list_files($dir, $filter = '*') {
    $files = glob("$dir/$filter");
    $dirs = glob("$dir/*", GLOB_ONLYDIR);
    echo "<div><button onclick=\"location.href='?dir=" .
urlencode(dirname($dir)) . "'\">Back</button></div>";
    if (realpath($dir) !== realpath(_DIR__)) {
        echo "<div><a href='?dir=" . urlencode(dirname($dir)) . "'>.. (parent
directory)</a></div>";
```

```
echo "";
   echo "NameTypeSizeModified
Actions";
   foreach ($dirs as $directory) {
       echo " (a href='?dir=" . urlencode($directory) . "'>" .
basename($directory) . "</a>";
       echo "Directory--";
       echo "<a href='?edit_dir=" . urlencode($directory) . "'>Rename</a>
       echo "<a href='?delete dir=" . urlencode($directory) . "'
onclick='return confirm(\"Are you sure you want to delete this directory?
\")'>Delete</a>";
   foreach ($files as $file) {
       echo "| " . basename($file) . "";
       echo "File" . filesize($file) . " bytes" .
echo "<a href='?edit=" . urlencode($file) . "'>Edit</a> | ";
       echo "<a href='?download=" . urlencode($file) . "'>Download</a> | ";
       echo "<a href='?delete=" . urlencode($file) . "' onclick='return
confirm(\"Are you sure you want to delete this file?\")'>Delete</a>";
   }
   echo "";
}
// File and directory handling functions
function edit_file($file) {
   $content = file_exists($file) ? file_get_contents($file) : '';
   echo "<form method='post'>";
   echo "<textarea name='content' rows='10' cols='50'>" .
htmlspecialchars($content) . "</textarea><br>";
   echo "<input type='hidden' name='file' value='" . htmlspecialchars($file) .
"'>":
   echo "<input type='submit' name='save' value='Save'>";
   echo "</form>";
}
function save file($file, $content) {
   file put contents($file, $content);
}
function delete_file($file) {
   unlink($file);
}
function delete_dir($dir) {
   rmdir($dir);
}
```

```
function rename_item($old_name, $new_name) {
    rename($old name, $new name);
}
function handle_file_upload($dir) {
    if (isset($_FILES['upload_file']) && $_FILES['upload_file']['error'] ===
UPLOAD_ERR_OK) {
        $upload_file = $dir . '/' . basename($_FILES['upload_file']['name']);
        move_uploaded_file($_FILES['upload_file']['tmp_name'], $upload_file);
    }
}
function download file($file) {
    if (file_exists($file)) {
        header('Content-Description: File Transfer');
        header('Content-Type: application/octet-stream');
        header('Content-Disposition: attachment; filename=' . basename($file));
        header('Expires: 0');
        header('Cache-Control: must-revalidate');
        header('Pragma: public');
        header('Content-Length: ' . filesize($file));
        readfile($file);
        exit;
    }
}
// Handling script submissions
if (isset($_POST['execute'])) {
    evaluate_script($_POST['script']);
}
// Handle file creation
if (isset($_POST['create_file'])) {
    $newFileName = $current_dir . '/' . $_POST['newFileName'];
    if (!empty($newFileName) && !file_exists($newFileName)) {
        file_put_contents($newFileName, ''); // Create a new file
    }
}
// Handle directory creation
if (isset($_POST['create_dir'])) {
    $newDirName = $current dir . '/' . $ POST['newDirName'];
    if (!empty($newDirName) && !file_exists($newDirName)) {
        mkdir($newDirName); // Create a new directory
    }
}
// Handle file operations
if (isset($_GET['edit'])) {
    $edit_file = $_GET['edit'];
} elseif (isset($_GET['delete'])) {
    delete_file($_GET['delete']);
    header('Location: admin.php?dir=' . urlencode($current_dir));
```

```
exit;
} elseif (isset($ GET['download'])) {
    download file($ GET['download']);
    exit;
}
// Handle directory operations
if (isset($_GET['edit_dir'])) {
    $edit_dir = $_GET['edit_dir'];
} elseif (isset($_GET['delete_dir'])) {
    delete_dir($_GET['delete_dir']);
    header('Location: admin.php?dir=' . urlencode($current_dir));
    exit;
}
if (isset($ POST['save'])) {
    save_file($_POST['file'], $_POST['content']);
    header('Location: admin.php?dir=' . urlencode($current_dir));
    exit;
}
if (isset($ POST['rename'])) {
    rename_item($_POST['old_name'], $_POST['new_name']);
    header('Location: admin.php?dir=' .
urlencode(dirname($_POST['old_name'])));
    exit;
}
// Handle file uploads
if (isset($_POST['upload'])) {
    handle_file_upload($current_dir);
    header('Location: admin.php?dir=' . urlencode($current_dir));
    exit;
}
// File type filter
$filter = isset($_POST['filter']) ? $_POST['filter'] : '*';
?>
<!DOCTYPE html>
<html>
<head>
    <title>Admin - Portfolio File Manager</title>
    <link rel="stylesheet" href="astyle.css">
    <script>
        function confirmAction(message) {
            return confirm(message);
        }
    </script>
</head>
<body>
<h2>Portfolio File Manager</h2>
```

```
<?php breadcrumb($current_dir); ?>
<form method="post">
    <input type="text" name="newFileName" placeholder="Enter new file name</pre>
(e.g., file.html)">
    <input type="submit" name="create_file" value="Create New File">
</form>
<form method="post">
    <input type="text" name="newDirName" placeholder="Enter new directory</pre>
    <input type="submit" name="create dir" value="Create New Directory">
</form>
<form method="post">
    <input type="text" name="filter" placeholder="Enter file type filter (e.g.,</pre>
*.txt)" value="<?= htmlspecialchars($filter) ?>">
    <input type="submit" value="Filter Files">
</form>
<form method="post" enctype="multipart/form-data">
    <input type="file" name="upload file">
    <input type="submit" name="upload" value="Upload File">
</form>
<?php if (isset($edit_file)): ?>
    <?php edit_file($edit_file); ?>
<?php elseif (isset($edit_dir)): ?>
    <form method="post">
        <input type="text" name="new_name" placeholder="New directory name">
        <input type="hidden" name="old_name" value="<?=</pre>
htmlspecialchars($edit dir) ?>">
        <input type="submit" name="rename" value="Rename Directory">
    </form>
<?php else: ?>
    <div>
        <h3>Files and Directories in <?= htmlspecialchars($current_dir) ?>:
</h3>
        <?php list_files($current_dir, $filter); ?>
    </div>
<?php endif; ?>
<!-- Script Execution Form -->
<h3>Execute Script:</h3>
<form method="post">
    <textarea name="script" rows="5" cols="50" placeholder="Enter your script
here..."></textarea><br>
    <input type="submit" name="execute" value="Execute Script">
</form>
<br><br><br>>
<form action="logout.php" method="post"><button type="submit"</pre>
name="logout">Logout</button></form>
```

```
</body>
</html>
```

## File 3

alpha

```
/* alpha.css */
body {
    font-family: Arial, sans-serif;
    margin: 20px;
    background-color: #f5f5f5;
}
.container {
    max-width: 800px;
    margin: 0 auto;
    background-color: #fff;
    padding: 20px;
    box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);
}
.input-section label {
    display: block;
    margin-top: 10px;
}
.input-section textarea {
    width: 100%;
    padding: 8px;
    box-sizing: border-box;
}
#compute-button, #generate-button {
    margin-top: 15px;
    padding: 10px 15px;
    font-size: 16px;
}
.result-section, .generator-section {
    margin-top: 20px;
}
.mappings {
    display: flex;
```

```
justify-content: space-between;
}
.mappings div {
    width: 48%;
.mappings pre {
    background-color: #f0f0f0;
    padding: 10px;
    overflow: auto;
    max-height: 200px;
}
.generator-section pre {
    background-color: #f0f0f0;
    padding: 10px;
    overflow: auto;
    max-height: 200px;
}
.hidden {
    display: none;
}
```

## File 4

```
alpha
```

```
<button id="compute-button">Compute Mappings</button>
      </div>
      <div id="result-section" class="result-section hidden">
         <h2>Results</h2>
         <div class="mappings">
            <div>
                <h3>LHS Symbol Mappings:</h3>
                </div>
            <div>
                <h3>RHS Symbol Mappings:</h3>
                </div>
         </div>
         <button id="generate-button">Generate Text Sequences</putton>
         <div id="generator-section" class="generator-section hidden">
            <h2>Generated Text Sequences</h2>
            <div>
                <h3>LHS Strings:</h3>
                </div>
            <div>
                <h3>RHS Strings:</h3>
                </div>
         </div>
      </div>
   </div>
   <script src="alpha.js"></script>
</body>
</html>
```