

URL Shortener with Simple Flat-File storage

Skrypt w języku PHP pozwalający na skracanie długich adresów URL

Dostępny pod linkiem:

<https://wiki.ostrowski.net.pl/urlshort/>

Kod rozwiązania:

[index.php](#)

```
<?php
/*
 * Simple Flat-File URL Shortener with Admin Panel
 * Single PHP file solution using a JSON file for storage.
 * Features:
 * - Shorten URLs
 * - Redirect shortened URLs
 * - Admin view to list and delete entries
 * Usage:
 * 1. Place this file (e.g., index.php) on your server.
 * 2. Ensure the script has write permissions to the directory.
 * 3. Visit the script in your browser to shorten URLs.
 * 4. Access shortened URLs via:
http://your-domain.com/index.php?c=SHORTCODE
 * 5. Visit the admin panel:
http://your-domain.com/index.php?view=admin
 */

// Configuration
$storage_file = __DIR__ . '/urls.json';
$base_url = (isset($_SERVER['HTTPS']) && $_SERVER['HTTPS'] === 'on' ?
'https' : 'http')
    . '://' . $_SERVER['HTTP_HOST'] . $_SERVER['SCRIPT_NAME'];

// Load existing URLs
$urls = [];
if (file_exists($storage_file)) {
    $json = file_get_contents($storage_file);
    $urls = json_decode($json, true) ?: [];
}

// Handle deletion in admin panel
$message = '';
if (isset($_GET['delete'])) {
    $code_to_delete = preg_replace('/[^a-zA-Z0-9]/', '',
$_GET['delete']);
    if (isset($urls[$code_to_delete])) {
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        unset($urls[$code_to_delete]);
        file_put_contents($storage_file, json_encode($urls,
JSON_PRETTY_PRINT));
        $message = "Entry '$code_to_delete' has been deleted.";
    } else {
        $message = "Code not found.";
    }
}

// Handle redirection if 'c' parameter is present
if (isset($_GET['c'])) {
    $code = preg_replace('/[^a-zA-Z0-9]/', '', $_GET['c']);
    if (isset($urls[$code])) {
        header('Location: ' . $urls[$code]);
        exit;
    } else {
        http_response_code(404);
        echo "<h1>404 Not Found</h1><p>Short URL not found.</p>";
        exit;
    }
}

// Handle form submission for shortening
$short_url = '';
if ($_SERVER['REQUEST_METHOD'] === 'POST' && !empty($_POST['url'])) {
    $original_url = filter_var(trim($_POST['url']),
FILTER_VALIDATE_URL);
    if ($original_url) {
        // Generate unique code
        do {
            $code =
substr(str_shuffle('abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ0123456789'), 0, 6);
        } while (isset($urls[$code]));
        // Save mapping
        $urls[$code] = $original_url;
        file_put_contents($storage_file, json_encode($urls,
JSON_PRETTY_PRINT));
        $short_url = $base_url . '?c=' . $code;
    } else {
        $message = 'Please enter a valid URL.';
    }
}

// Determine view mode
$view_admin = (isset($_GET['view']) && $_GET['view'] === 'admin');
?>
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
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<meta name="viewport" content="width=device-width,initial-scale=1">
<title>Simple URL Shortener</title>
<style>
    body { font-family: Arial, sans-serif; max-width: 800px;
margin: 50px auto; padding: 0 20px; }
    input[type="url"] { width: 70%; padding: 8px; }
    input[type="submit"] { padding: 8px 16px; }
    .message { margin: 20px 0; color: red; }
    .result { margin: 20px 0; }
    table { width: 100%; border-collapse: collapse; margin-top:
20px; }
    th, td { border: 1px solid #ddd; padding: 8px; text-align:
left; }
    th { background-color: #f4f4f4; }
    .actions a { color: #c00; text-decoration: none; }
    .nav { margin-bottom: 20px; }
</style>
</head>
<body>
    <div class="nav">
        <a href="<?= htmlspecialchars(
            $base_url
        ) ?>">Shorten URL</a> |
        <a href="<?= htmlspecialchars(
            $base_url . '?view=admin'
        ) ?>">Admin Panel</a>
    </div>

    <?php if ($message): ?>
        <div class="message"><?php echo htmlspecialchars($message);
?></div>
    <?php endif; ?>

    <?php if ($view_admin): ?>
        <h1>Admin Panel</h1>
        <?php if (empty($urls)): ?>
            <p>No entries found.</p>
        <?php else: ?>
            <table>
                <tr><th>Code</th><th>Original URL</th><th>Short
URL</th><th>Actions</th></tr>
                <?php foreach ($urls as $code => $url): ?>
                    <tr>
                        <td><?php echo htmlspecialchars($code); ?></td>
                        <td><a href="<?php echo htmlspecialchars($url); ?>"
target="_blank"><?php echo htmlspecialchars($url); ?></a></td>
                        <td><a href="<?php echo $base_url . '?c=' . $code;
?>" target="_blank"><?php echo $base_url . '?c=' . $code; ?></a></td>
                        <td class="actions">
                            <a href="<?php echo $base_url .
'?view=admin&delete=' . $code; ?>" onclick="return confirm('Delete

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<?php echo $code; ?>?');">Delete</a>
    </td>
  </tr>
<?php endforeach; ?>
</table>
<?php endif; ?>
<?php else: ?>
  <h1>Simple Flat-File URL Shortener</h1>
  <form method="post">
    <input type="url" name="url" placeholder="Enter URL to
shorten" required>
    <input type="submit" value="Shorten">
  </form>
  <?php if ($short_url): ?>
    <div class="result">
      Short URL: <a href="<?php echo $short_url; ?>"
target="_blank"><?php echo $short_url; ?></a>
    </div>
  <?php endif; ?>
<?php endif; ?>
</body>
</html>
```

From:

<https://wiki.ostrowski.net.pl/> - **Kacper's Wiki**

Permanent link:

https://wiki.ostrowski.net.pl/doku.php?id=narzedzia:php_url_short&rev=1747047385

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