

## Applying the Skip Navigation Links in the Context of the Websites' Accessibility of Central Public Administration Bodies in the Banská Bystrica Region<sup>1</sup>

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**Abstract:** The study focuses in its main aim on seeking yet undetected or undefined deficits in relation to applying the skip navigation mechanism on the websites of the central public administration bodies in the Banská Bystrica Region in the context of improving the websites accessibility and it consists of two separate parts. The first part presents a basic introduction to the questions of skip navigation links, with the key attention paid to the following three main areas: applying of skip navigation links, visual hiding of skip navigation links, and web browsers' bug related to skip navigation links. The second part of the study concentrates on the basis of analysis of applying the skip navigation links on the websites of the central public administration bodies in the Banská Bystrica Region on the processes focused on detection of potential deficits and gaps in the websites' accessibility or related possible non-compliance with the legislation in force.

**Key Words:** Websites; Websites' Accessibility; Skip Navigation Links; Public Administration; Central Public Administration Bodies; Compliance with Legislation in Force; the Banská Bystrica Region; Analysis.

### Introduction

The on-line form of presentation and communication of the public administration authorities via Internet belongs not only to the most effective forms of communications – in relation to the territorial impact of the communicated information, but also to the most problematic – in the context of technical realization due to a number of specific standards required by handicapped web users with various forms of disabilities. In the following study the author focuses on the questions of applying the skip navigation links as key elements by building the websites.

<sup>1</sup> This study was created within the institutional project of the Faculty of Law of Trnava University in Trnava No. 10/2013 "Websites' Accessibility in Public Administration", in the Slovak original "Pristupnosť webových stránok vo verejnej správe".

While sighted web users use their eyes as a built-in skip navigation mechanism which enables them to bypass several links with only one click or to move directly to the link they want to reach with the mouse, for users with some forms of visual or motor disabilities means bypassing the navigation links or direct browsing the website a very serious technical problem. Importance and wide-social interest in solving this problem is reflected also in the adopted related legislation which is in the Slovak Republic represented by the latest Ministerial Decree of the Ministry of Finance of the Slovak Republic No. 55/2014 Coll. of Standards for Information Systems of Public Administration issued on March 4<sup>th</sup>, 2014, and effective from March 15<sup>th</sup>, 2014.<sup>2</sup>

The aim of the study is to analyze applying the skip navigation links on the websites of the central public administration bodies in the Banská Bystrica Region. In the context of the research questions we define the main hypothesis as follows: *Homepages of the central public administration bodies in the Banská Bystrica Region apply technically correctly the skip navigation links mechanism.*

## Skip navigation links

The following part of the study familiarizes the readers with the main questions of applying of skip navigation links, visual hiding of skip navigation links, and web browsers' bug related to skip navigation links.

### Applying of skip navigation links

The idea of applying the skip navigation links is simple: they serve to provide a link at the top of the webpage which jumps the user down to an anchor or target at the beginning of the main content. For the most part it seems to be easy, though there is more than one way to accomplish the goal. From the technical view the process of creating the skip navigation link could be explained through a HTML code as it is shown in the following example:<sup>3</sup>

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<sup>2</sup> See Výnos Ministerstva financií Slovenskej republiky č. 55/2014 Z.z. o štandardoch pre informačné systémy verejnej správy zo 4. marca 2014 [Ministerial Decree of the Ministry of Finance of the Slovak Republic No. 55/2014 Coll. of Standards for Information Systems of Public Administration issued on March 4<sup>th</sup>, 2014].

<sup>3</sup> "Skip Navigation" Links. In: *WebAIM: Web Accessibility in Mind* [online]. 2013-10-25 [cit. 2016-03-01]. Available at: <http://webaim.org/techniques/skipnav/>; and KOPRLOVÁ, J. Applying the Skip Navigation Links in the Context of the Websites' Accessibility of Central State Administration Bodies in the Slovak Republic. *Societas et iurisprudentia* [online].

- + HTML code:  
<body>  
<a href="#main-content">Skip to Main Content</a>  
...  
<main id="main-content">  
  <h1>Heading</h1>  
  <p>This is the first paragraph.</p>.

### ***Visual hiding of skip navigation links***

By building the website the most required form of applying the skip navigation mechanism is to make it invisible. For hiding the skip links there are several techniques to be applied. Two parallel conditions should be necessarily taken into account in this process: the first one means the requirement of visual hiding of the skip links content, and the second one represents the requirement of accessibility of the skip links content for screen readers. Nowadays, the best known and most often used CSS code “*visibility: hidden;/display: none;*” satisfies the only first one from the two above-mentioned conditions and so it cannot be recommended in relation to its non-visibility and inaccessibility for screen readers. An effective solution of this problem, satisfying the both conditions, offer the following HTML and CSS codes:<sup>4</sup>

- + HTML code:  
<div class="hidden">This text is hidden.</div>;
- + CSS code:  
.hidden {  
  position: absolute;  
  left: -10000px;  
  top: auto;  
  width: 1px;  
  height: 1px;}

---

2014, roč. 2, č. 2, pp. 134-135 [cit. 2016-03-01]. ISSN 1339-5467. Available at: <http://sei.iuridica.truni.sk/archive/2014/02/SOCIETAS-ET-IURISPRUDENTIA-2014-02.pdf>.

<sup>4</sup> CSS in Action: Invisible Content Just for Screen Reader Users. In: *WebAIM: Web Accessibility in Mind* [online]. 2014-12-11 [cit. 2016-03-01]. Available at: <http://webaim.org/techniques/css/invisiblecontent/>; and KOPRLOVÁ, J. Applying the Skip Navigation Links in the Context of the Websites' Accessibility of Central State Administration Bodies in the Slovak Republic. *Societas et iurisprudentia* [online]. 2014, roč. 2, č. 2, p. 135 [cit. 2016-03-01]. ISSN 1339-5467. Available at: <http://sei.iuridica.truni.sk/archive/2014/02/SOCIETAS-ET-IURISPRUDENTIA-2014-02.pdf>.

```
overflow: hidden;  
}.
```

By generally recommended requirement to make the skip navigation links invisible until they receive keyboard focus, the following HTML and CSS codes should be applied:<sup>5</sup>

- ⊕ HTML code:  

```
<div id="hidden"><a href="#main-content">Skip to Main Content</a></div>;
```
- ⊕ CSS code:  

```
#hidden a {  
    position: absolute;  
    left: -10000px;  
    top: auto;  
    width: 1px;  
    height: 1px;  
    overflow: hidden;  
}  
#hidden a:focus {  
    position: static;  
    width: auto;  
    height: auto;  
}.
```

This means a very useful solution which could be preferred above all for sighted keyboard users those cannot use a mouse.

### ***Web browsers' bug related to skip navigation links***

The recommended above-mentioned skip navigation links related solutions are working effective in most web browsers, but nowadays there still exists one bug which lowers the efficiency of their applying through disrupting the logical order by browsing or reading the webpage links. This makes the webpage browsing with keyboard distortable or even non-effective. An appropriate solution for healing this bug offers the HTML code as follows:<sup>6</sup>

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<sup>5</sup> CSS in Action: Invisible Content Just for Screen Reader Users. In: *WebAIM: Web Accessibility in Mind* [online]. 2014-12-11 [cit. 2016-03-01]. Available at: <http://webaim.org/techniques/css/invisiblecontent/>.

<sup>6</sup> Skip Navigation Links (Updated 6/19/2009). In: *JimThatcher.com* [online]. 2014-09-16 [cit. 2016-03-01]. Available at: <http://www.jimthatcher.com/skipnav.htm>; and KOPRLO-

⊕ HTML code:

```
<body>
<a href="#main-content">Skip to Main Content</a>
...
<main id="main-content" tabindex="-1">
<h1>Heading</h1>
<p>This is the first paragraph.</p>
```

## **Analysis of applying the skip navigation links on the websites of the central public administration bodies in the Banská Bystrica Region**

Our analysis of applying the skip navigation links on the websites of the central public administration bodies in the Banská Bystrica Region has been legislatively based on the Ministerial Decree of the Ministry of Finance of the Slovak Republic No. 55/2014 Coll. of Standards for Information Systems of Public Administration issued on March 4<sup>th</sup>, 2014, and effective from March 15<sup>th</sup>, 2014, with the main attention laid on the § 14 Websites' Accessibility (in the Slovak original "§ 14 Prístupnosť webových stránok"), including related appendix Guideline 13. Providing Clear Navigation Mechanisms (in the Slovak original "Pravidlo 13. Poskytovanie prehľadného mechanizmu navigácie").<sup>7</sup>

Our analysis was realized in the early March 2016 by applying web browser Internet Explorer 11 (with style sheets and active elements turned off). Complete sample was represented by all websites of all the central public administration bodies in the Banská Bystrica Region, while

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VÁ, J. Applying the Skip Navigation Links in the Context of the Websites' Accessibility of Central State Administration Bodies in the Slovak Republic. *Societas et iurisprudentia* [online]. 2014, roč. 2, č. 2, pp. 136-137 [cit. 2016-03-01]. ISSN 1339-5467. Available at: <http://sei.iuridica.truni.sk/archive/2014/02/SOCIETAS-ET-IURISPRUDENTIA-2014-02.pdf>.

<sup>7</sup> Compare with KOPRLA, M. and J. KOPRLOVÁ. Analýza prístupnosti webových stránok vybraných webových sídiel verejnej správy z pohľadu administratívno-správneho členenia Slovenskej republiky. *Societas et res publica* [online]. 2013, roč. 2, č. 1, pp. 93-160 [cit. 2015-09-01]. ISSN 1338-6530. Available at: <http://serp.fsv.ucm.sk/archive/2013/01/SOCIETAS-ET-RES-PUBLICA-2013-01.pdf>; and with KOPRLA, M. Prístupnosť webových stránok ako významný faktor zvyšovania konkurencieschopnosti. In: K. ĎURKOVÁ, A. BOBOVNICKÝ and A. ZAUŠKOVÁ, eds. *Inovácie a vedomostná spoločnosť/digitálny marketing – udržateľný rast a návrat investícií* [CD-ROM]. 1. vyd. Trnava: Univerzita sv. Cyrila a Metoda v Trnave, Fakulta masmediálnej komunikácie, 2012, pp. 49-63. ISBN 978-80-8105-454-9.

research sample was defined by all homepages of all the central public administration bodies in the Banská Bystrica Region, namely of:<sup>8</sup>

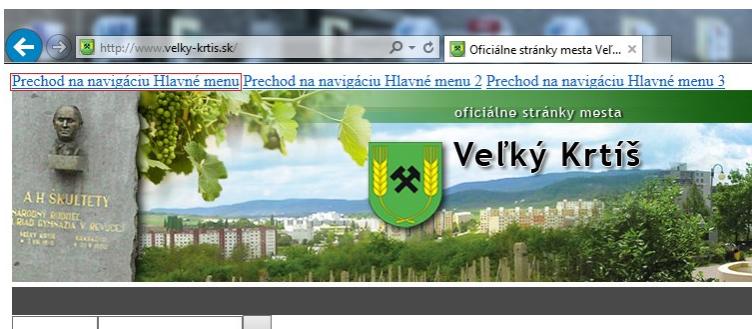
- ⊕ Central public administration body of Veľký Krtíš (<http://www.velky-krtis.sk/>);
- ⊕ Central public administration body of Zvolen (<http://www.zvolen.sk/>);
- ⊕ Central public administration body of Žarnovica (<http://www.zar-novica.sk/>);
- ⊕ Central public administration body of Žiar nad Hronom (<http://www.ziar.sk/>);
- ⊕ Central public administration body of Banská Bystrica (<http://www.banskabystrica.sk/>);
- ⊕ Central public administration body of Banská Štiavnica (<http://www.banskastiavnica.sk/>);
- ⊕ Central public administration body of Brezno (<http://www.brezno.sk/>);
- ⊕ Central public administration body of Detva (<http://www.detva.sk/>);
- ⊕ Central public administration body of Krupina (<http://www.krupina.sk/>);
- ⊕ Central public administration body of Lučenec (<http://www.lucenec.sk/>);
- ⊕ Central public administration body of Poltár (<http://www.poltar.sk/>);
- ⊕ Central public administration body of Revúca (<http://www.revuca.sk/>);
- ⊕ Central public administration body of Rimavská Sobota (<http://www.rimavskasobota.sk/>).

### ***Central public administration body of Veľký Krtíš***

Next figure displays homepage of the central public administration body of Veľký Krtíš, with style sheets and active elements turned off. The analyzed skip link is marked by red rectangle.

<sup>8</sup> See Zákon č. 575/2001 Z.z. o organizácii činnosti vlády a organizácii ústrednej štátnej správy v platnom znení [Act No. 575/2001 Coll. on Organization of the Activities of the Government and Organization of the Central Public Administration, as amended].

Figure 1 Website (with style sheets and active elements turned off) of the Central Public Administration Body of Veľký Krtíš



## Mesto Veľký Krtíš

DNES ...

Source: Website (with style sheets and active elements turned off) of the central public administration body of *Veľký Krtíš* [online]. 2016 [cit. 2016-03-01]. Available at: <http://www.velky-krtis.sk/>.

Analyzing the homepage of the central public administration body of Veľký Krtíš in context of using the skip navigation links following key findings could be detected:<sup>9</sup>

- ⊕ Number of links before the main content: 14 links;
- ⊕ Number of skip links: 3 links;
- ⊕ Number of links before the first skip link: 0 links;
- ⊕ Visual display of skip links: hidden;
- ⊕ HTML code of skip links:

```
<div class="hidden-special">
    <a href="#m_19404" title="Prechod na navigáciu Hlavné menu">Prechod na navigáciu Hlavné menu</a>
    <a href="#m_114345" title="Prechod na navigáciu Hlavné menu 2">Prechod na navigáciu Hlavné menu 2</a>
    <a href="#m_131507" title="Prechod na navigáciu Hlavné menu 3">Prechod na navigáciu Hlavné menu 3</a>
</div>
<a name="m_19404"></a>
```

<sup>9</sup> Source code of the central public administration body website of *Veľký Krtíš* [online]. 2016 [cit. 2016-03-01]. Available at: <http://www.velky-krtis.sk/>.

<a name="m\_114345"></a>  
<a name="m\_131507"></a>;

- ➊ CSS code of skip links:

```
.hidden-special {  
    height: 0;  
    overflow: hidden;  
    margin: 0;  
    padding: 0;  
    border: 0;  
}.
```

According to the presented results we can conclude that there is a skip navigation mechanism applied on the analyzed homepage of the central public administration body of Veľký Krtíš, but it works technically incorrectly. In relation to our finding we can recommend to add the attribute *tabindex="-1"* to website's target elements and to replace CSS code "*height: 0;*" with CSS code in accordance with the model examples shown in the previous parts of the study named "Visual hiding of skip navigation links" and "Web browsers' bug related to skip navigation links", with the aim, firstly, to make the skip navigation links content accessible/visible for screen readers and, secondly, to eliminate the disrupted logical order by browsing or reading the webpage links that occurs by most of web browsers.

### ***Central public administration body of Zvolen***

Next figure displays homepage of the central public administration body of Zvolen, with style sheets and active elements turned off. The analyzed skip link is marked by red rectangle.

Analyzing the homepage of the central public administration body of Zvolen in context of using the skip navigation links following key findings could be detected:<sup>10</sup>

- ➊ Number of links before the main content: 60 links;
- ➋ Number of skip links: 5 links;
- ➌ Number of links before the first skip link: 0 links;
- ➍ Visual display of skip links: hidden;

<sup>10</sup> Source code of the central public administration body website of Zvolen [online]. 2016 [cit. 2016-03-01]. Available at: <http://www.zvolen.sk/>.

⊕ HTML code of skip links:

```
<div class="hidden-special">
    <a href="#m_00" title="Prechod na navigáciu block
menu">Prechod na navigáciu block menu</a>
    <a href="#m_76097" title="Prechod na navigáciu Hlavné
menu">Prechod na navigáciu Hlavné menu</a>
    <a href="#m_259356" title="Prechod na navigáciu Hlavné menu
3">Prechod na navigáciu Hlavné menu 3</a>
    <a href="#m_85438" title="Prechod na navigáciu Hlavné menu
4">Prechod na navigáciu Hlavné menu 4</a>
    <a href="#m_0" title="Prechod na navigáciu vodorovná">Prechod
na navigáciu vodorovná</a>
</div>
[Missing selector name="m_00"]
<a name="m_76097"></a>
<a name="m_259356"></a>
<a name="m_85438"></a>
<a name="m_0"></a>;
```

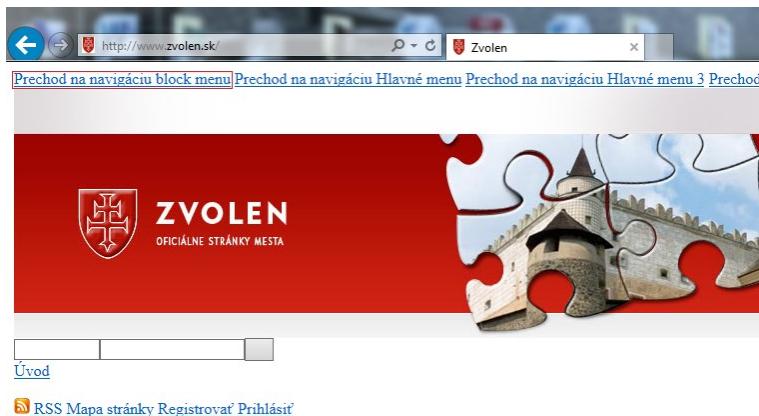
⊕ CSS code of skip links:

```
.hidden-special {
    height: 0;
    overflow: hidden;
    margin: 0;
    padding: 0;
    border: 0;
}.
```

According to the presented results we can conclude that there is a skip navigation mechanism applied on the analyzed homepage of the central public administration body of Zvolen, but it works technically incorrectly. In relation to our finding we can recommend to replace element "[>Prejsť na obsah stránky</a>", then to add the attribute `tabindex="-1"` to website's target elements and to replace CSS code "`height: 0;`" with CSS code in accordance with the model examples shown in the previous parts of the study named "Visual hiding of skip navigation links" and "Web browsers' bug related to skip navigation links", with the aim, firstly, to make the skip navigation links content accessible/visible for screen](#m_282991 "Prejsť na obsah stránky")

readers and, secondly, to eliminate the disrupted logical order by browsing or reading the webpage links that occurs by most of web browsers.

Figure 2 Website (with style sheets and active elements turned off) of the Central Public Administration Body of Zvolen



Source: Website (with style sheets and active elements turned off) of the central public administration body of *Zvolen* [online]. 2016 [cit. 2016-03-01]. Available at: <http://www.zvolen.sk/>.

### ***Central public administration body of Žarnovica***

Next figure displays homepage of the central public administration body of Žarnovica, with style sheets and active elements turned off. The analyzed skip link is marked by red rectangle.

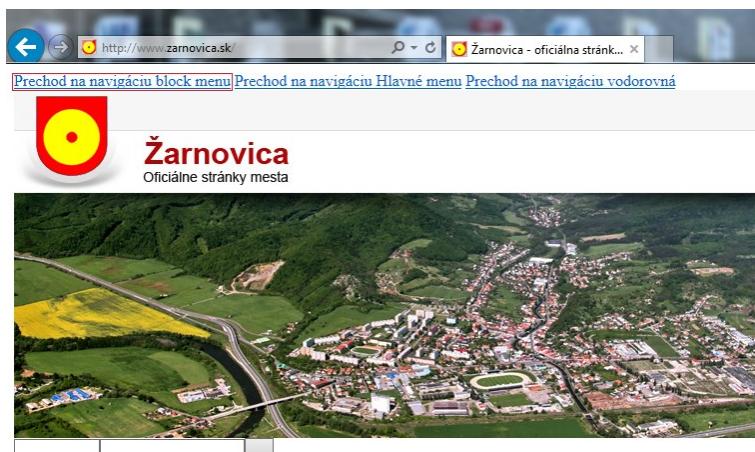
Analyzing the homepage of the central public administration body of Žarnovica in context of using the skip navigation links following key findings could be detected:<sup>11</sup>

- Number of links before the main content: 42 links;
- Number of skip links: 3 links;
- Number of links before the first skip link: 0 links;
- Visual display of skip links: hidden;
- HTML code of skip links:  
`<div class="hidden-special">`

<sup>11</sup> Source code of the central public administration body website of Žarnovica [online]. 2016 [cit. 2016-03-01]. Available at: <http://www.zarnovica.sk/>.

<a href="#m\_00" title="Prechod na navigáciu block menu">Prechod na navigáciu block menu</a>  
<a href="#m\_58627" title="Prechod na navigáciu Hlavné menu">Prechod na navigáciu Hlavné menu</a>  
<a href="#m\_0" title="Prechod na navigáciu vodorovná">Prechod na navigáciu vodorovná</a>  
</div>  
[Missing selector name="m\_00"]  
<a name="m\_58627"></a>  
<a name="m\_0"></a>;  
+ CSS code of skip links:  
.hidden-special {  
height: 0;  
overflow: hidden;  
margin: 0;  
padding: 0;  
border: 0;  
}.

Figure 3 Website (with style sheets and active elements turned off) of the Central Public Administration Body of Žarnovica



Source: Website (with style sheets and active elements turned off) of the central public administration body of Žarnovica [online]. 2016 [cit. 2016-03-01]. Available at: <http://www.zarnovica.sk/>.

According to the presented results we can conclude that there is a skip navigation mechanism applied on the analyzed homepage of the

central public administration body of Žarnovica, but it works technically incorrectly. In relation to our finding we can recommend to replace element "<a href="#m\_00" title="Prechod na navigáciu block menu">Prechod na navigáciu block menu</a>" with element "<a href="m\_282894">Prejst' na obsah stránky</a>", then to add the attribute *tabindex*="-1" to website's target elements and to replace CSS code "height: 0;" with CSS code in accordance with the model examples shown in the previous parts of the study named "Visual hiding of skip navigation links" and "Web browsers' bug related to skip navigation links", with the aim, firstly, to make the skip navigation links content accessible/visible for screen readers and, secondly, to eliminate the disrupted logical order by browsing or reading the webpage links that occurs by most of web browsers.

### ***Central public administration body of Žiar nad Hronom***

Next figure displays homepage of the central public administration body of Žiar nad Hronom, with style sheets and active elements turned off. There is no skip link applied.

Figure 4 Website (with style sheets and active elements turned off) of the Central Public Administration Body of Žiar nad Hronom



Source: Website (with style sheets and active elements turned off) of the central public administration body of Žiar nad Hronom [online]. 2016 [cit. 2016-03-01]. Available at: <http://www.ziar.sk/>.

Analyzing the homepage of the central public administration body of Žiar nad Hronom in context of using the skip navigation links following key findings could be detected:<sup>12</sup>

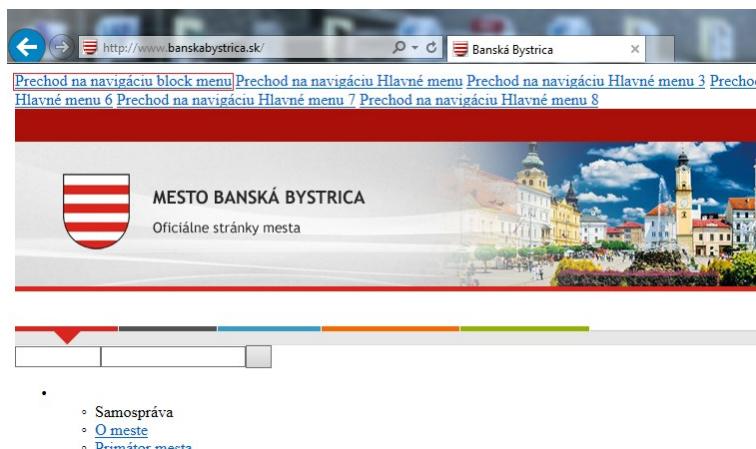
- ⊕ Number of links before the main content: 296 links;
- ⊕ Number of skip links: 0 links.

According to the presented results we can conclude that there is no skip navigation mechanism applied on the analyzed homepage of the central public administration body of Žiar nad Hronom. In relation to this finding we can recommend to add the skip navigation links in accordance with the model examples shown in the previous part of the study named "Skip navigation links".

### ***Central public administration body of Banská Bystrica***

Next figure displays homepage of the central public administration body of Banská Bystrica, with style sheets and active elements turned off. The analyzed skip link is marked by red rectangle.

Figure 5 Website (with style sheets and active elements turned off) of the Central Public Administration Body of Banská Bystrica



Source: Website (with style sheets and active elements turned off) of the central public administration body of Banská Bystrica [online]. 2016 [cit. 2016-03-01]. Available at: <http://www.banskabystrica.sk/>.

<sup>12</sup> Source code of the central public administration body website of Žiar nad Hronom [online]. 2016 [cit. 2016-03-01]. Available at: <http://www.ziar.sk/>.

Analyzing the homepage of the central public administration body of Banská Bystrica in context of using the skip navigation links following key findings could be detected:<sup>13</sup>

⊕ Number of links before the main content: 36 links;

⊕ Number of skip links: 8 links;

⊕ Number of links before the first skip link: 0 links;

⊕ Visual display of skip links: hidden;

⊕ HTML code of skip links:

```
<div class="hidden-special">
    <a href="#m_00" title="Prechod na navigáciu block
menu">Prechod na navigáciu block menu</a>
    <a href="#m_109133" title="Prechod na navigáciu Hlavné
menu">Prechod na navigáciu Hlavné menu</a>
    <a href="#m_161914" title="Prechod na navigáciu Hlavné menu
3">Prechod na navigáciu Hlavné menu 3</a>
    <a href="#m_138411" title="Prechod na navigáciu Hlavné menu
4">Prechod na navigáciu Hlavné menu 4</a>
    <a href="#m_291382" title="Prechod na navigáciu Hlavné menu
5">Prechod na navigáciu Hlavné menu 5</a>
    <a href="#m_270152" title="Prechod na navigáciu Hlavné menu
6">Prechod na navigáciu Hlavné menu 6</a>
    <a href="#m_148261" title="Prechod na navigáciu Hlavné menu
7">Prechod na navigáciu Hlavné menu 7</a>
    <a href="#m_22660" title="Prechod na navigáciu Hlavné menu
8">Prechod na navigáciu Hlavné menu 8</a>
</div>
```

[Missing selector name="m\_00"]

```
<a name="m_109133"></a>
<a name="m_161914"></a>
<a name="m_138411"></a>
<a name="m_291382"></a>
<a name="m_270152"></a>
<a name="m_148261"></a>
<a name="m_22660"></a>;
```

⊕ CSS code of skip links:

```
.hidden-special {
    height: 0;
```

<sup>13</sup> Source code of the central public administration body website of *Banská Bystrica* [online].  
2016 [cit. 2016-03-01]. Available at: <http://www.banskabystrica.sk/>.

```
overflow: hidden;  
margin: 0;  
padding: 0;  
border: 0;  
}.
```

According to the presented results we can conclude that there is a skip navigation mechanism applied on the analyzed homepage of the central public administration body of Banská Bystrica, but it works technically incorrectly. In relation to our finding we can recommend to replace element “[<a href="#m\\_00" title="Prechod na navigáciu block menu">Prechod na navigáciu block menu</a>](#m_00 "Prechod na navigáciu block menu")” with element “[<a href="#m\\_106" title="Prejst' na obsah stránky">Prejst' na obsah stránky</a>](#m_106 "Prejst' na obsah stránky")”, then to add the attribute *tabindex*=“-1” to website’s target elements and to replace CSS code “*height: 0;*” with CSS code in accordance with the model examples shown in the previous parts of the study named “Visual hiding of skip navigation links” and “Web browsers’ bug related to skip navigation links”, with the aim, firstly, to make the skip navigation links content accessible/visible for screen readers and, secondly, to eliminate the disrupted logical order by browsing or reading the webpage links that occurs by most of web browsers.

### ***Central public administration body of Banská Štiavnica***

Next figure displays homepage of the central public administration body of Banská Štiavnica, with style sheets and active elements turned off. There is no skip link applied.

Analyzing the homepage of the central public administration body of Banská Štiavnica in context of using the skip navigation links following key findings could be detected:<sup>14</sup>

- ✚ Number of links before the main content: 66 links;
- ✚ Number of skip links: 0 links.

According to the presented results we can conclude that there is no skip navigation mechanism applied on the analyzed homepage of the central public administration body of Banská Štiavnica. In relation to this finding we can recommend to add the skip navigation links in accordance

<sup>14</sup> Source code of the central public administration body website of Banská Štiavnica [online]. 2016 [cit. 2016-03-01]. Available at: <http://www.banskastiavnica.sk/>.

with the model examples shown in the previous part of the study named "Skip navigation links".

Figure 6 Website (with style sheets and active elements turned off) of the Central Public Administration Body of Banská Štiavnica



## Banská Štiavnica - mesto svetového dedičstva

### Navigácia

- [Úvod](#)
- [Mapa portálu](#)
- [RSS](#)
- [Blind friendly](#)
- [Čierna skrinka](#)
- [Cenník inzercie](#)
- [Kontakty](#)

### Informácie

1. marec 2016, meno in má Albin

Source: Website (with style sheets and active elements turned off) of the central public administration body of *Banská Štiavnica* [online]. 2016 [cit. 2016-03-01]. Available at: <http://www.banskastiavnica.sk/>.

### ***Central public administration body of Brezno***

Next figure displays homepage of the central public administration body of Brezno, with style sheets and active elements turned off. The analyzed skip link is marked by red rectangle.

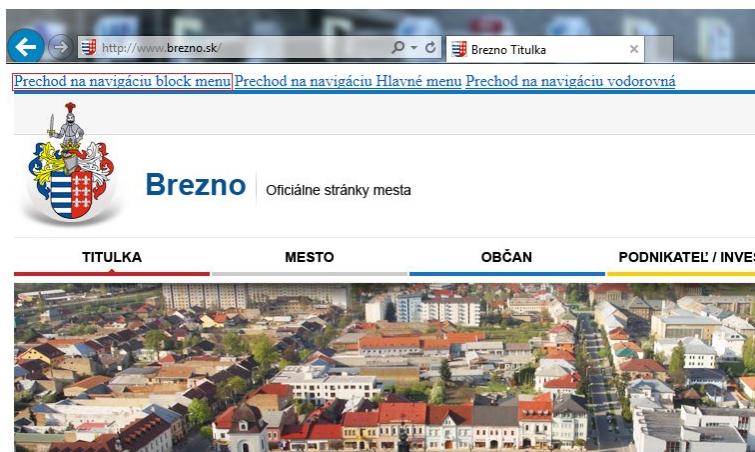
Analyzing the homepage of the central public administration body of Brezno in context of using the skip navigation links following key findings could be detected:<sup>15</sup>

- ⊕ Number of links before the main content: 50 links;
- ⊕ Number of skip links: 3 links;
- ⊕ Number of links before the first skip link: 0 links;
- ⊕ Visual display of skip links: hidden;
- ⊕ HTML code of skip links:  
<div class="hidden-special">

<sup>15</sup> Source code of the central public administration body website of *Brezno* [online]. 2016 [cit. 2016-03-01]. Available at: <http://www.brezno.sk/>.

<a href="#m\_00" title="Prechod na navigáciu block menu">Prechod na navigáciu block menu</a>  
<a href="#m\_234759" title="Prechod na navigáciu Hlavné menu">Prechod na navigáciu Hlavné menu</a>  
<a href="#m\_0" title="Prechod na navigáciu vodorovná">Prechod na navigáciu vodorovná</a>  
</div>  
[Missing selector name="m\_00"]  
<a name="m\_234759"></a>  
<a name="m\_0"></a>;  
+ CSS code of skip links:  
.hidden-special {  
height: 0;  
overflow: hidden;  
margin: 0;  
padding: 0;  
border: 0;  
}.

Figure 7 Website (with style sheets and active elements turned off) of the Central Public Administration Body of Brezno



Source: Website (with style sheets and active elements turned off) of the central public administration body of Brezno [online]. 2016 [cit. 2016-03-01]. Available at: <http://www.brezno.sk/>.

According to the presented results we can conclude that there is a skip navigation mechanism applied on the analyzed homepage of the

central public administration body of Brezno, but it works technically incorrectly. In relation to our finding we can recommend to replace element “[Prechod na navigáciu block menu](#m_00 "Prechod na navigáciu block menu")” with element “[Prejst' na obsah stránky](m_234760)”, then to add the attribute *tabindex*=“-1” to website's target elements and to replace CSS code “*height: 0;*” with CSS code in accordance with the model examples shown in the previous parts of the study named “Visual hiding of skip navigation links” and “Web browsers' bug related to skip navigation links”, with the aim, firstly, to make the skip navigation links content accessible/visible for screen readers and, secondly, to eliminate the disrupted logical order by browsing or reading the webpage links that occurs by most of web browsers.

### ***Central public administration body of Detva***

Next figure displays homepage of the central public administration body of Detva, with style sheets and active elements turned off. The analyzed skip link is marked by red rectangle.

Analyzing the homepage of the central public administration body of Detva in context of using the skip navigation links following key findings could be detected:<sup>16</sup>

- ✚ Number of links before the main content: 22 links;
- ✚ Number of skip links: 2 links;
- ✚ Number of links before the first skip link: 0 links;
- ✚ Visual display of skip links: hidden;
- ✚ HTML code of skip links:  

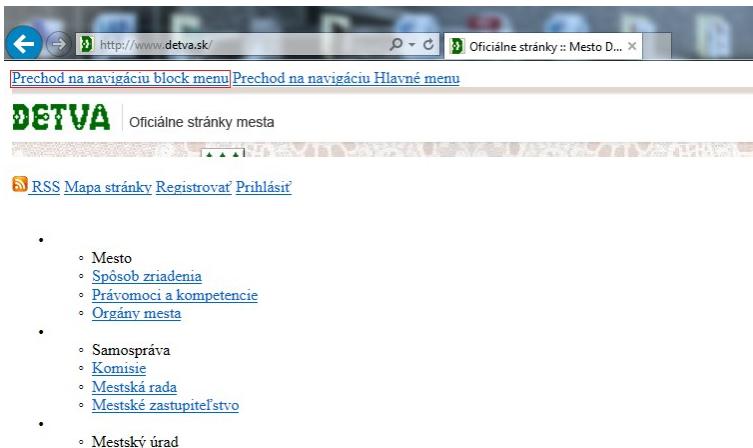
```
<div class="hidden-special">
    <a href="#m_00" title="Prechod na navigáciu block
menu">Prechod na navigáciu block menu</a>
    <a href="#m_15358" title="Prechod na navigáciu Hlavné
menu">Prechod na navigáciu Hlavné menu</a>
</div>
[Missing selector name="m_00"]
<a name="m_15358"></a>;
```
- ✚ CSS code of skip links:  

```
.hidden-special {
    height: 0;
```

<sup>16</sup> Source code of the central public administration body website of *Detva* [online]. 2016 [cit. 2016-03-01]. Available at: <http://www.detva.sk/>.

```
overflow: hidden;  
margin: 0;  
padding: 0;  
border: 0;  
}.
```

Figure 8 Website (with style sheets and active elements turned off) of the Central Public Administration Body of Detva



Source: Website (with style sheets and active elements turned off) of the central public administration body of Detva [online]. 2016 [cit. 2016-03-01]. Available at: <http://www.detva.sk/>.

According to the presented results we can conclude that there is a skip navigation mechanism applied on the analyzed homepage of the central public administration body of Detva, but it works technically incorrectly. In relation to our finding we can recommend to replace element "`<a href="#m_00" title="Prechod na navigáciu block menu">Prechod na navigáciu block menu</a>`" with element "`<a href="m_43">Prejsť na obsah stránky</a>`", then to add the attribute `tabindex="-1"` to website's target elements and to replace CSS code "`height: 0;`" with CSS code in accordance with the model examples shown in the previous parts of the study named "Visual hiding of skip navigation links" and "Web browsers' bug related to skip navigation links", with the aim, firstly, to make the skip navigation links content accessible/visible for screen readers and, secondly, to eliminate the disrupted logical order by browsing or reading the webpage links that occurs by most of web browsers.

## ***Central public administration body of Krupina***

Next figure displays homepage of the central public administration body of Krupina, with style sheets and active elements turned off. There is no skip link applied.

Figure 9 Website (with style sheets and active elements turned off) of the Central Public Administration Body of Krupina



Source: Website (with style sheets and active elements turned off) of the central public administration body of Krupina [online]. 2016 [cit. 2016-03-01]. Available at: <http://www.krupina.sk/>.

Analyzing the homepage of the central public administration body of Krupina in context of using the skip navigation links following key findings could be detected:<sup>17</sup>

- Number of links before the main content: 178 links;
- Number of skip links: 0 links.

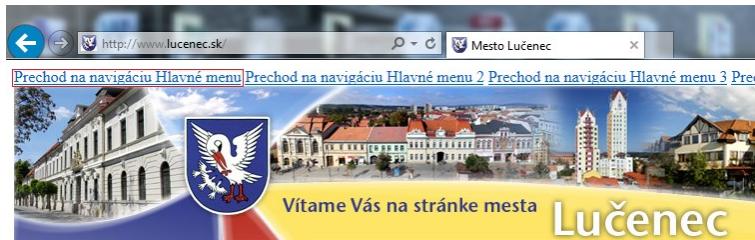
According to the presented results we can conclude that there is no skip navigation mechanism applied on the analyzed homepage of the central public administration body of Krupina. In relation to this finding we can recommend to add the skip navigation links in accordance with the model examples shown in the previous part of the study named "Skip navigation links".

<sup>17</sup> Source code of the central public administration body website of Krupina [online]. 2016 [cit. 2016-03-01]. Available at: <http://www.krupina.sk/>.

## ***Central public administration body of Lučenec***

Next figure displays homepage of the central public administration body of Lučenec, with style sheets and active elements turned off. The analyzed skip link is marked by red rectangle.

Figure 10 Website (with style sheets and active elements turned off) of the Central Public Administration Body of Lučenec



### **Harmonogram podujatí na rok 2016**

Tento harmonogram sa priebežne dopĺňa o nové podujatia. Ak chcete vedieť čo sa práve chystá, tak si harmonogram [Harmonogram v1.0.pdf](#) (514.1 kB)

Zverejnené 29.2.2016 -StSp-

### **Úradné oznamy**

Source: Website (with style sheets and active elements turned off) of the central public administration body of Lučenec [online]. 2016 [cit. 2016-03-01]. Available at: <http://www.lucenec.sk/>.

Analyzing the homepage of the central public administration body of Lučenec in context of using the skip navigation links following key findings could be detected:<sup>18</sup>

- ⊕ Number of links before the main content: 5 links;
- ⊕ Number of skip links: 5 links;
- ⊕ Number of links before the first skip link: 0 links;
- ⊕ Visual display of skip links: hidden;
- ⊕ HTML code of skip links:  
`<div class="hidden-special">  
 <a href="#m_45944" title="Prechod na navigáciu Hlavné menu">Prechod na navigáciu Hlavné menu</a>  
 <a href="#m_173878" title="Prechod na navigáciu Hlavné menu"`

<sup>18</sup> Source code of the central public administration body website of Lučenec [online]. 2016 [cit. 2016-03-01]. Available at: <http://www.lucenec.sk/>.

2">Prechod na navigáciu Hlavné menu 2</a>  
<a href="#m\_259802" title="Prechod na navigáciu Hlavné menu  
3">Prechod na navigáciu Hlavné menu 3</a>  
<a href="#m\_45951" title="Prechod na navigáciu Hlavné menu  
4">Prechod na navigáciu Hlavné menu 4</a>  
<a href="#m\_0" title="Prechod na navigáciu vodorovná">Prechod  
na navigáciu vodorovná</a>  
</div>  
<a name="m\_45944"></a>  
<a name="m\_173878"></a>  
<a name="m\_259802"></a>  
<a name="m\_45951"></a>  
<a name="m\_0"></a>;

 CSS code of skip links:

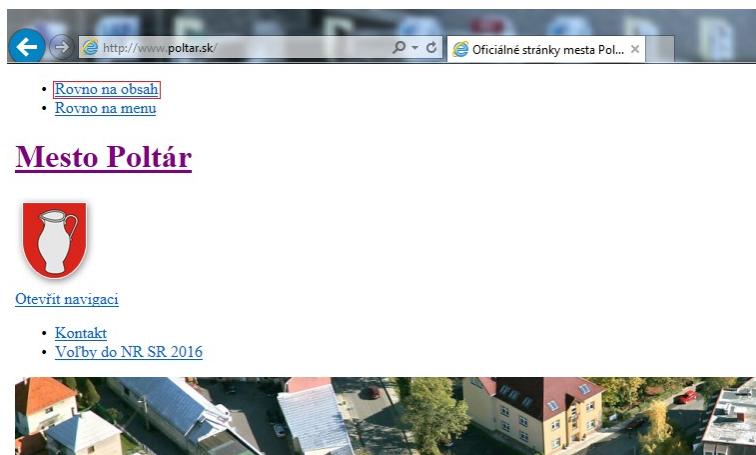
```
.hidden-special {  
height: 0;  
overflow: hidden;  
margin: 0;  
padding: 0;  
border: 0;  
}.
```

According to the presented results we can conclude that there is a skip navigation mechanism applied on the analyzed homepage of the central public administration body of Lučenec, but it works technically incorrectly. In relation to our finding we can recommend to add the attribute `tabindex="-1"` to website's target elements and to replace CSS code "`height: 0;`" with CSS code in accordance with the model examples shown in the previous parts of the study named "Visual hiding of skip navigation links" and "Web browsers' bug related to skip navigation links", with the aim, firstly, to make the skip navigation links content accessible/visible for screen readers and, secondly, to eliminate the disrupted logical order by browsing or reading the webpage links that occurs by most of web browsers.

### ***Central public administration body of Poltár***

Next figure displays homepage of the central public administration body of Poltár, with style sheets and active elements turned off. The analyzed skip link is marked by red rectangle.

Figure 11 Website (with style sheets and active elements turned off) of the Central Public Administration Body of Poltár



Source: Website (with style sheets and active elements turned off) of the central public administration body of Poltár [online]. 2016 [cit. 2016-03-01]. Available at: <http://www.poltar.sk/>.

Analyzing the homepage of the central public administration body of Poltár in context of using the skip navigation links following key findings could be detected:<sup>19</sup>

- ⊕ Number of links before the main content: 174 links;
- ⊕ Number of skip links: 2 links;
- ⊕ Number of links before the first skip link: 0 links;
- ⊕ Visual display of skip links: hidden;
- ⊕ HTML code of skip links:  

```
<ul class="access">
<li>
    <a href="#content-link">Rovno na obsah</a>
</li>
<li>
    <a href="#menu-link">Rovno na menu</a>
</li>
</ul>
```

<sup>19</sup> Source code of the central public administration body website of Poltár [online]. 2016 [cit. 2016-03-01]. Available at: <http://www.poltar.sk/>.

<a name="menu-link" id="menu-link"></a>  
<a name="content-link" id="content-link"></a>;

- ➊ CSS code of skip links:

```
.access,  
#header h1 span,  
.diskuze th,  
.logo span {  
    position: absolute;  
    left: -2000px;  
    width: 1px;  
    height: 1px;  
    overflow: hidden;  
}.
```

According to the presented results we can conclude that there is a skip navigation mechanism applied on the analyzed homepage of the central public administration body of Poltár which works technically correctly. In relation to our finding we can recommend to add the attribute *tabindex="-1"* to website's target elements in accordance with the model example shown in the previous part of the study named "Web browsers' bug related to skip navigation links", with the aim to eliminate the disrupted logical order by browsing or reading the webpage links that occurs by most of web browsers.

### ***Central public administration body of Revúca***

Next figure displays homepage of the central public administration body of Revúca, with style sheets and active elements turned off. The analyzed skip link is marked by red rectangle.

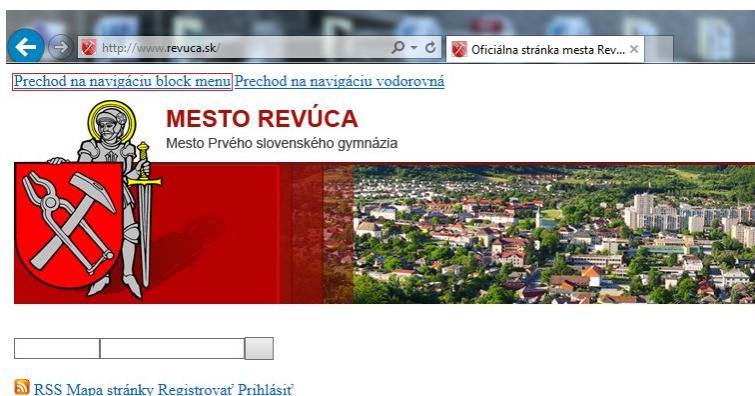
Analyzing the homepage of the central public administration body of Revúca in context of using the skip navigation links following key findings could be detected:<sup>20</sup>

- ➊ Number of links before the main content: 42 links;
- ➋ Number of skip links: 2 links;
- ➌ Number of links before the first skip link: 0 links;
- ➍ Visual display of skip links: hidden;

<sup>20</sup> Source code of the central public administration body website of *Revúca* [online]. 2016 [cit. 2016-03-01]. Available at: <http://www.revaca.sk/>.

- ⊕ HTML code of skip links:  
<div class="hidden-special">  
    <a href="#m\_00" title="Prechod na navigáciu block menu">Prechod na navigáciu block menu</a>  
    <a href="#m\_0" title="Prechod na navigáciu vodorovná">Prechod na navigáciu vodorovná</a>  
</div>  
[Missing selector name="m\_00"]  
<a name="m\_0"></a>;
- ⊕ CSS code of skip links:  
.hidden-special {  
    height: 0;  
    overflow: hidden;  
    margin: 0;  
    padding: 0;  
    border: 0;  
}.

Figure 12 Website (with style sheets and active elements turned off) of the Central Public Administration Body of Revúca



Source: Website (with style sheets and active elements turned off) of the central public administration body of Revúca [online]. 2016 [cit. 2016-03-01]. Available at: <http://www.revaca.sk/>.

According to the presented results we can conclude that there is a skip navigation mechanism applied on the analyzed homepage of the central public administration body of Revúca, but it works technically in-

correctly. In relation to our finding we can recommend to replace element "<a href="#m\_00" title="Prechod na navigáciu block menu">Prechod na navigáciu block menu</a>" with element "<a href="m\_225983">Prejst' na obsah stránky</a>", then to add the attribute *tabindex="-1"* to website's target elements and to replace CSS code "height: 0;" with CSS code in accordance with the model examples shown in the previous parts of the study named "Visual hiding of skip navigation links" and "Web browsers' bug related to skip navigation links", with the aim, firstly, to make the skip navigation links content accessible/visible for screen readers and, secondly, to eliminate the disrupted logical order by browsing or reading the webpage links that occurs by most of web browsers.

### ***Central public administration body of Rimavská Sobota***

Next figure displays homepage of the central public administration body of Rimavská Sobota, with style sheets and active elements turned off. The analyzed skip link is marked by red rectangle.

Analyzing the homepage of the central public administration body of Rimavská Sobota in context of using the skip navigation links following key findings could be detected:<sup>21</sup>

- Number of links before the main content: 3 links;
- Number of skip links: 3 links;
- Number of links before the first skip link: 0 links;
- Visual display of skip links: hidden;
- HTML code of skip links:

```
<div class="hidden-special">
    <a href="#m_33134" title="Prechod na navigáciu Hlavné
        menu">Prechod na navigáciu Hlavné menu</a>
    <a href="#m_39868" title="Prechod na navigáciu Hlavné menu
        2">Prechod na navigáciu Hlavné menu 2</a>
    <a href="#m_0" title="Prechod na navigáciu vodorovná">Prechod
        na navigáciu vodorovná</a>
</div>
<a name="m_33134"></a>
<a name="m_39868"></a>
<a name="m_0"></a>;
```

<sup>21</sup> Source code of the central public administration body website of *Rimavská Sobota* [online]. 2016 [cit. 2016-03-01]. Available at: <http://www.rimavskasobota.sk/>.

- ⊕ CSS code of skip links:

```
.hidden-special {  
    height: 0;  
    overflow: hidden;  
    margin: 0;  
    padding: 0;  
    border: 0;  
}.
```

Figure 13 Website (with style sheets and active elements turned off) of the Central Public Administration Body of Rimavská Sobota



## Mesto Rimavská Sobota

### Oznamy mesta

#### Návrhy na udelenie Ceny mesta 2016

Mesto Rimavská Sobota prijíma návrhy na udelenie Ceny Mesta Rimavská Sobota, ktorá bude odovzdaná v rámci Di

Source: Website (with style sheets and active elements turned off) of the central public administration body of *Rimavská Sobota* [online]. 2016 [cit. 2016-03-01]. Available at: <http://www.rimavskasobota.sk/>.

According to the presented results we can conclude that there is a skip navigation mechanism applied on the analyzed homepage of the central public administration body of Rimavská Sobota, but it works technically incorrectly. In relation to our finding we can recommend to add the attribute *tabindex="-1"* to website's target elements and to replace CSS code "*height: 0;*" with CSS code in accordance with the model examples shown in the previous parts of the study named "Visual hiding of skip navigation links" and "Web browsers' bug related to skip navigation links", with the aim, firstly, to make the skip navigation links content accessible/visible for screen readers and, secondly, to eliminate the disrupted logical order by browsing or reading the webpage links that occurs by most of web browsers.

## Conclusion

In the study "Applying the Skip Navigation Links in the Context of the Websites' Accessibility of Central Public Administration Bodies in the Banská Bystrica Region" we have paid our attention in accordance with its main aim to seeking yet undetected or undefined deficits in relation to applying the skip navigation mechanism on the websites of the central public administration bodies in the Banská Bystrica Region in the context of improving the websites accessibility. In the context of our research questions we defined the main hypothesis as follows: *Homepages of the central public administration bodies in the Banská Bystrica Region apply technically correctly the skip navigation links mechanism.*

According to the results and key findings presented in previous parts of our study we can underline the following final conclusions (valid as of March 1<sup>st</sup>, 2016), divided in to three separate groups:

*Homepages with the technically correctly working skip navigation mechanism* – for this group we can recommend to add the attribute *tabindex="-1"* to website's target elements which relates namely to only one central public administration body:

- ⊕ Central public administration body of Poltár.

*Homepages with the technically incorrectly working skip navigation mechanism* – for this group we can recommend to add the attribute *tabindex="-1"* to website's target elements and to replace CSS code "*display: none;*" with CSS code in accordance with the exactly in our study presented model examples. These recommendations relate to exactly nine central public administration bodies:

- ⊕ Central public administration body of Veľký Krtíš;
- ⊕ Central public administration body of Zvolen;
- ⊕ Central public administration body of Žarnovica;
- ⊕ Central public administration body of Banská Bystrica;
- ⊕ Central public administration body of Brezno;
- ⊕ Central public administration body of Detva;
- ⊕ Central public administration body of Lučenec;
- ⊕ Central public administration body of Revúca;
- ⊕ Central public administration body of Rimavská Sobota.

*Homepages with no skip navigation mechanism applied* – for this group we can recommend to add skip navigation links, then to add target elements, to add the attribute *tabindex="-1"* to website's target elements

and to avoid applying CSS code “*display: none;*” in accordance with the exactly in our study presented model examples. These recommendations relate namely to three central public administration bodies, which is less than one fourth of the central public administration bodies in the Banská Bystrica Region:

- ⊕ Central public administration body of Žiar nad Hronom;
- ⊕ Central public administration body of Banská Štiavnica;
- ⊕ Central public administration body of Krupina.

Finally, as for verifying the set main hypothesis of the study we can conclude that the hypothesis is not valid, so we have to reject it, because from the 13 analyzed homepages of the central public administration bodies in the Banská Bystrica Region only 1 homepage was technically correctly working and was in compliance with legislation in force<sup>22</sup> (state valid as of March 1<sup>st</sup>, 2016).

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<sup>22</sup> See *Výnos Ministerstva financií Slovenskej republiky č. 55/2014 Z.z. o štandardoch pre informačné systémy verejnej správy zo 4. marca 2014* [Ministerial Decree of the Ministry of Finance of the Slovak Republic No. 55/2014 Coll. of Standards for Information Systems of Public Administration issued on March 4<sup>th</sup>, 2014].

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Website (with style sheets and active elements turned off) of the central public administration body of *Žarnovica* [online]. 2016 [cit. 2016-03-01]. Available at: <http://www.zarnovica.sk/>.

Website (with style sheets and active elements turned off) of the central public administration body of *Žiar nad Hronom* [online]. 2016 [cit. 2016-03-01]. Available at: <http://www.ziar.sk/>.

Website (with style sheets and active elements turned off) of the central public administration body of *Banská Bystrica* [online]. 2016 [cit. 2016-03-01]. Available at: <http://www.banskabystrica.sk/>.

Website (with style sheets and active elements turned off) of the central public administration body of *Banská Štiavnica* [online]. 2016 [cit. 2016-03-01]. Available at: <http://www.banskastiavnica.sk/>.

Website (with style sheets and active elements turned off) of the central public administration body of *Brezno* [online]. 2016 [cit. 2016-03-01]. Available at: <http://www.brezno.sk/>.

Website (with style sheets and active elements turned off) of the central public administration body of *Detva* [online]. 2016 [cit. 2016-03-01]. Available at: <http://www.detva.sk/>.

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Zákon č. 575/2001 Z.z. o organizácii činnosti vlády a organizácii ústrednej štátnej správy v platnom znení.

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