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## CDNH WEB PORTAL EXTENSION FOR VIDEO PROJECTS PRESENTATION

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### ABSTRACT

One of the main goals of the Center for Digitization of National Heritage is to produce digital presentations of the cultural heritage element and put them available on the web, through the portal of CDNH. Therefore the web portal of CDNH is constantly upgraded and expanded. Some of these extensions are designed to enable the portal to display new types of content. The last extension was made in order to provide a way to present newly produced video projects. In this paper we present this part of the web portal of CDNH.

### I. INTRODUCTION

Students taking the Multimedia course at the Institute of Informatics at the Faculty of Natural Sciences and Mathematics in Skopje, produce some multimedia content as a final project. In last two years documentary films and short animated films that present some of the aspects of the national heritage of Macedonia were produced. Also, a number of videos for Macedonian folk songs were made. These good products gained by the collaboration of the Centre for Digitization of National Heritage and the Institute of Informatics [2], obliged us to include them in the CDNH portal [1]

Consequently, additional web pages for this purpose were made on the portal. This pages offer an easy way for listing the videos by type, searching videos by keyword and displaying the videos. Additionally, we produced accompanying admin pages to manipulate with the data associated with the main pages, and to add new video projects.



Figure 1: Main page of video section of CDNH portal

### II. USERS WEB PAGES

In this section we will present all web pages developed with a purpose to present videos. The page displaying the videos can be accessed through the main menu.

The new web pages retain the style and design of the portal.

#### A. The initial page

The initial page lists all categories (types) of videos. This is done by presenting a “random video” proposal for each type of videos being offered. It allows quick access to some video, for the visitors of the portal that are not searching for anything specific (Fig. 1).

To increase interest in watching the proposed video, a picture next to the title is shown. For each video, additionally, a description of the video content, and a list of developers is presented.

By clicking on a certain type of videos one can enter the corresponding category web.

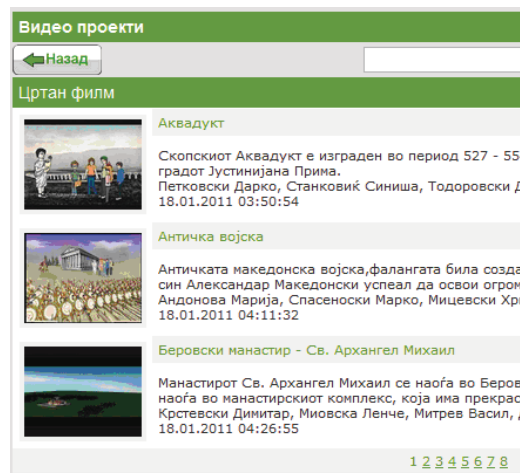


Figure 2: List of videos of specifics type

#### B. A category page

A category web page lists all the videos of the corresponding type.

Similar as on the previous page, the list consists of an image, the title of the video, list of developers of that video and date when the video is uploaded (Fig. 2).

The listing is divided on many pages, each one containing up to three project descriptions.

C. The search opportunity

Both pages offer the opportunity to search for videos by keyword. In fact, by pressing the "search" button, user is relocated to the page SearchVidea.aspx, which allows the user to search through the content descriptions. Results are listed in the same style as in the previous page. More precisely, the search covers all data of type text: the title, description and developers.

D. The download opportunity

All video content in this part of the CDNН portal is available for download. Also, it is possible to watch videos on-line. Because of the large size of videos, especially documentaries, a smooth stream requires hi-speed internet. But, by using the download opportunity, everyone can watch all the videos.

ИД	1
Дата	18/01/2011 08:11:32
ИД_Тип	1
Наслов	Амниста војска
Креатор	Андрова Марија, Спасеноски Марио, Мицевски Христијан, Тацевски Игор
Опис	Амниста македонска војска фалангата била создадена од царот Филип Втори, со чија помош неговите син Александар Македонски успеал да освои огромна територија.
Слика	video/Ekora 18_1_0001.jpg
Видео	video/Ekora 18_1.mpd
Мала слика	video/thumbs/Ekora 18_1_0001.jpg
Големина	75801145

Figure 4. Admin page: video type

III. ADMIN WEB PAGES

Besides user pages, there are also three web pages for manipulation with the data. The database of the portal was extended with two tables.

ТИП ФИЛМ		ФИЛМОВИ
ИД_тип	ТИП	
Select	1	Цртан филм
Select	2	Документарен филм

ИД_тип	1
ТИП	Цртан филм
<input type="button" value="Edit"/> <input type="button" value="Delete"/> <input type="button" value="New"/>	

Figure 3. Admin page: video type

A. Adding new categories of content

On the initial page we can add, change or delete data from the table TipFilm from the database. In fact, here we may add new types of videos (Fig. 3).

B. Adding new video

The following pages allow listing of videos from a certain type, accessing to the details of the specific video in order to modify it, and also adding new video content (Fig. 4).

IV. TYPES OF VIDEO CONTENTS

In the moment of writing this paper there are two types of video contents presented on CDNН portal: documentaries and short animated films (Fig. 5).

A. Documentaries

Documentaries are movies 25 to 30 minutes long presenting facts and information, about historical figures, historical events, natural beauties, social issues, etc. Including different multimedia techniques, they tend to present the subject matter in a way appealing and interesting for viewers. Used techniques include 2D and 3D animations,

There are 6 documentaries on the web site at this moment, but in the near future the number will be doubled. Presented documentaries are selected as best projects from a larger set of documentaries produced by students. These videos have size is around 300 MB.

B. Animated movies

Animated movies are short movies with the same storyline, and they present an aspect from the national heritage in manner attractive for children.

The number of animated films placed on web is 24. They are around 7 minutes long, so they have considerably smaller size compared to the documentaries.

C. Music videos

The next step is CDNН video section to be enriched by new type: music videos for old Macedonian folk songs. Over 15 projects of this type are in the final stage of production and they will be putted on web as soon as possible.

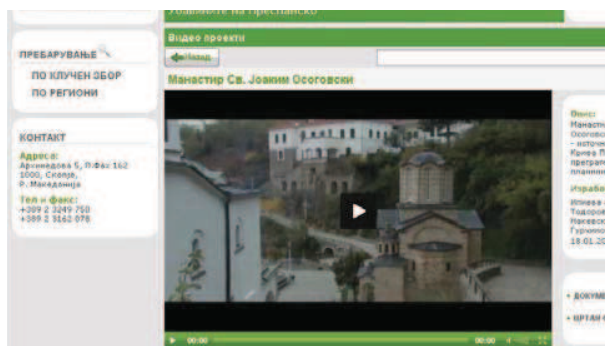


Figure 5. Display of video contents

## V. CONCLUSION

The web portal of CDNH Macedonia constantly grows, offering new types of presentations of Macedonian national heritage [3, 4]. In the previously added projects some video materials, as short films and inserts were included [1]. Here, we presented the new section of the portal specialized for video projects, which currently presents documentaries and short animated films. In this way, the multimedia projects of the students are available to anyone who is interested in Macedonian national heritage

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