

Know Your Media

The application allows access media files (music, video, photo) from social network vk.com. The functional of application enables you to download music and photos on the PC and search for audio and video globally. Moreover, our application is a full-featured audio/video player. Sign in only once, and then view and download media content, staying offline.

Repository address: <https://github.com/Konahrik/KYM.git>

Members of the team:

Kozlova Olesia, group 145 - Application logic, User Interface, API;

Aseeva Elena, group 145 - Application logic, API;

Osipova Anna, group 145 - User Interface, Testing.

List of classes with short description for each class:

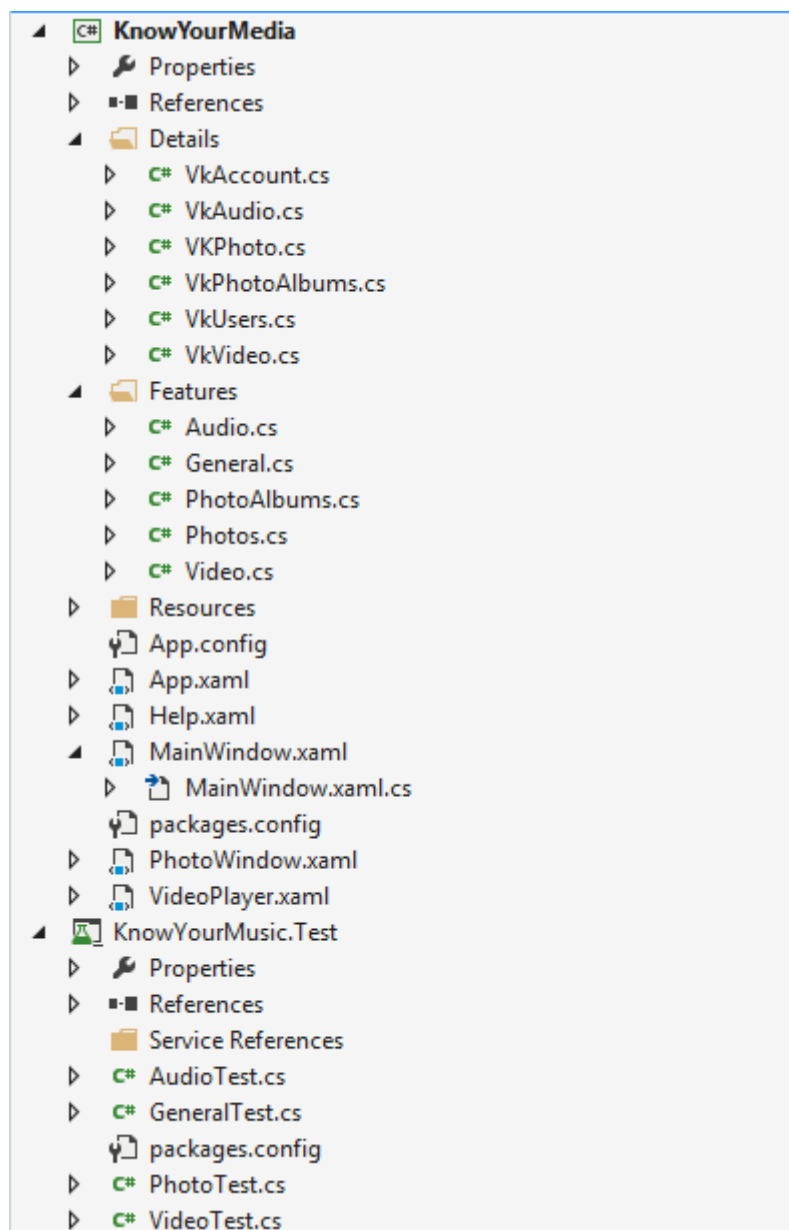


Figure 1. List of classes

I. Folder Details.

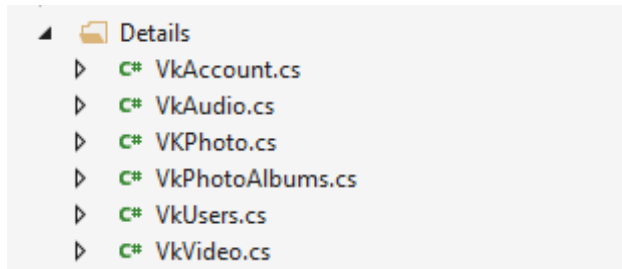


Figure 2. Folder Details.

1. Class `VkAccount` includes initialization of new instances of the `JsonProperty` class.
2. Class `VkAudio` consists of response list of objects type of `AudioResponse`. `AudioResponse` class initializes instances of the `JsonProperty` class. Class `SecondsToStringConverter` inherits `JsonConverter` class.
3. Class `VkUsers` has a response array type of `UserResponse`. Class `UserResponse` has auto-implemented properties `uid`, `first_name` and `last_name` type of string.
4. Class `VkVideo` consists of response list of objects type of `VideoResponse`. `VideoResponse` class initializes instances of the `JsonProperty` class.
5. Class `VkPhotoAlbums` consists of response list of objects type of `PhotoAlbumsResponse`. `PhotoAlbumsResponse` class initializes instances of the `JsonProperty` class.
6. Class `VKPhoto` has response list of `PhotoResponse` type objects. `PhotoResponse` class initializes instances of the `JsonProperty` class.

II. Folder Features.

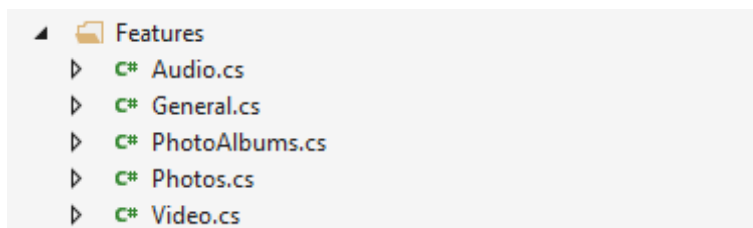


Figure 3. Folder Features

1. Class `General` is deserialization of `JsonProperties` and request of url (`VkRequest` method).
2. Class `Audio`: Method `LoadAudio` returns the list of user's audio from vk.com site using id. Method `SearchAudio` implements the global search of audio by artist or composition and returns the list of tracks
3. Class `Video`: the same logic as `Audio` (loadind of user's list of videos and global search).

4. Class PhotoAlbums: method LoadPhotoAlbums returns the list of user's photo albums from vk.com site.

5. Class Photos: returns list of photos from the album

III. Class MainWindow

Class MainWindow implements the main logic of the program. Includes methods for:

1. User's authorization
2. Selecting item
3. Loading and search results
4. Playing audio and video
5. Opening albums and photos
6. Saving items
7. Calling Help Window

IV. Class VideoPlayer

Interaction logic for VideoPlayer.xaml (window in which videos are played).

V. Class PhotoWindow

Interaction logic for PhotoWindow.xaml which is a window for opening photos.

VI. Tests

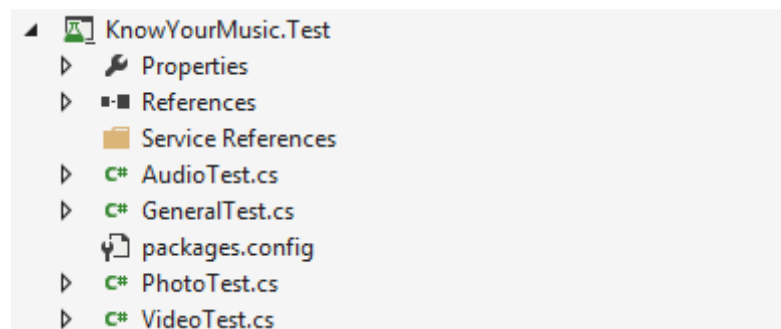
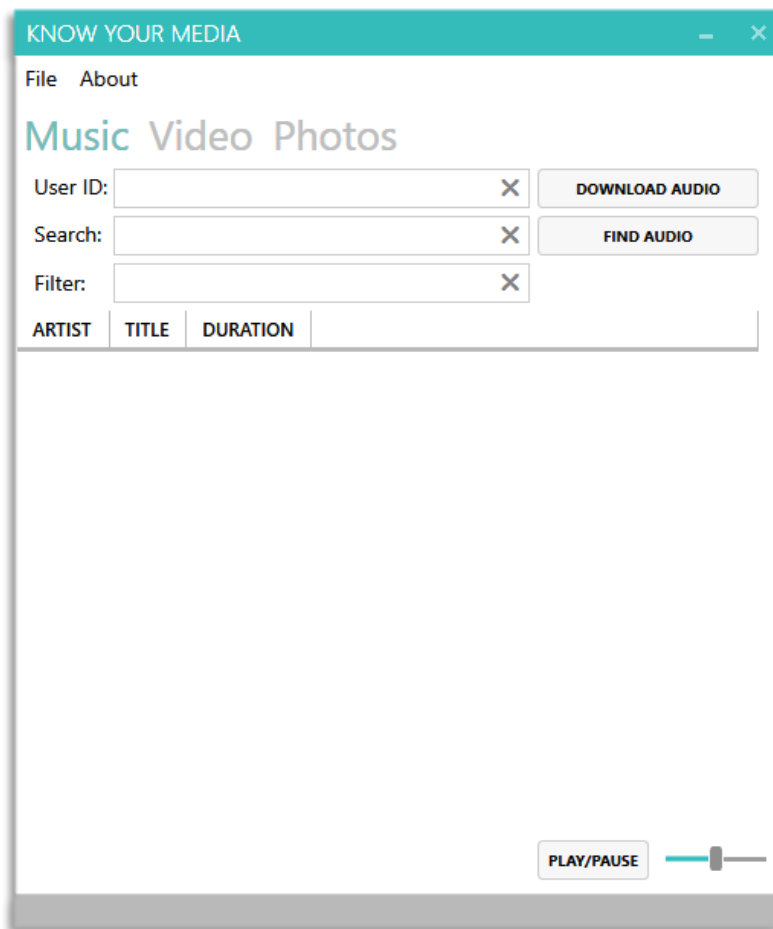


Figure 4. Tests.

1. GeneralTest – 3 unit tests for methods in General.cs
2. AudioTest – 2 unit tests for methods in Audio.cs
3. VideoTest – 2 unit tests for methods in Video.cs
4. PhotoTest – 3 unit tests for methods in Photos.cs and PhotoAlbums.cs

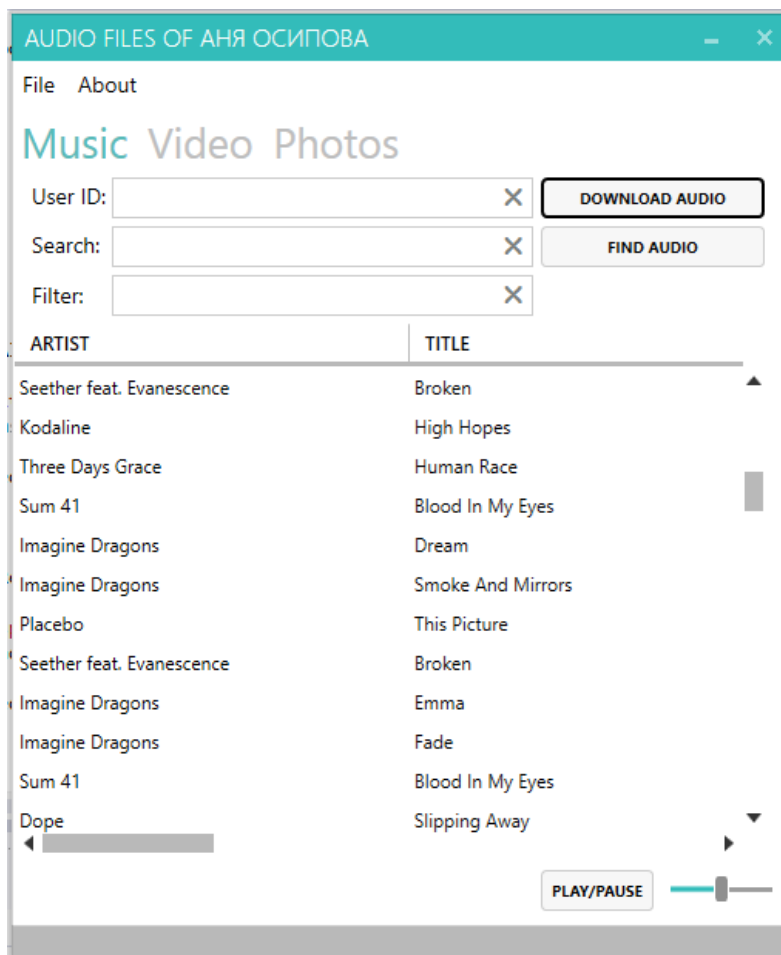
Program interface:

1. Audio functional

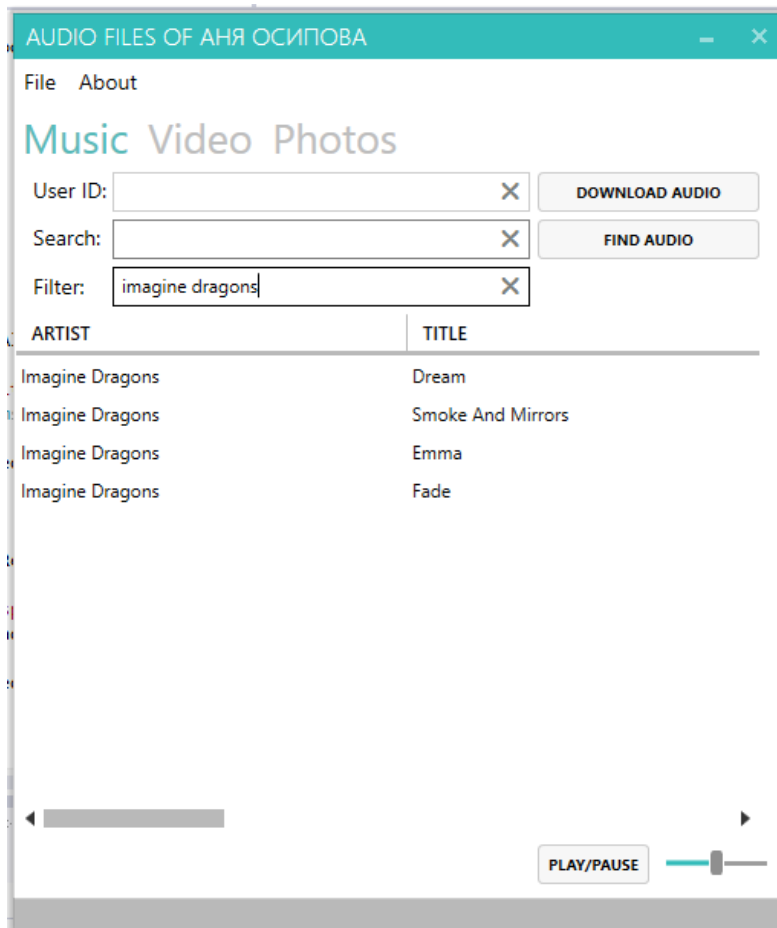


Music tab selected by default.

After signing in user no longer need to enter his ID. So, if user wants to see his own music, the field “User ID” can be leaved empty.

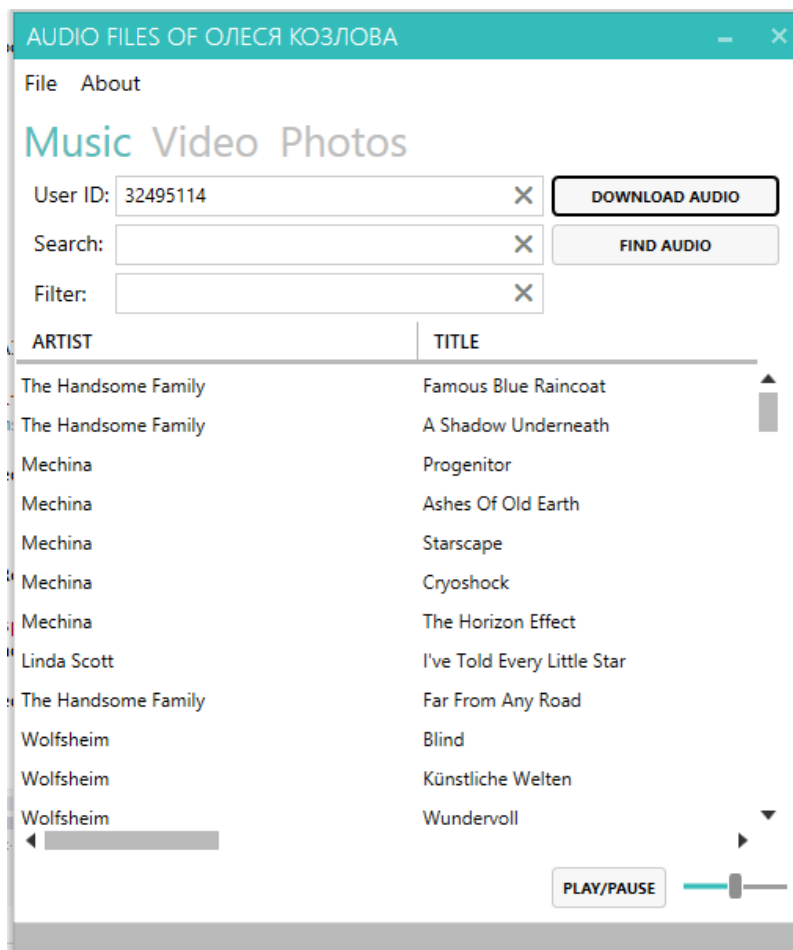


Then he only click the button “DOWNLOAD AUDIO” and see all his music.

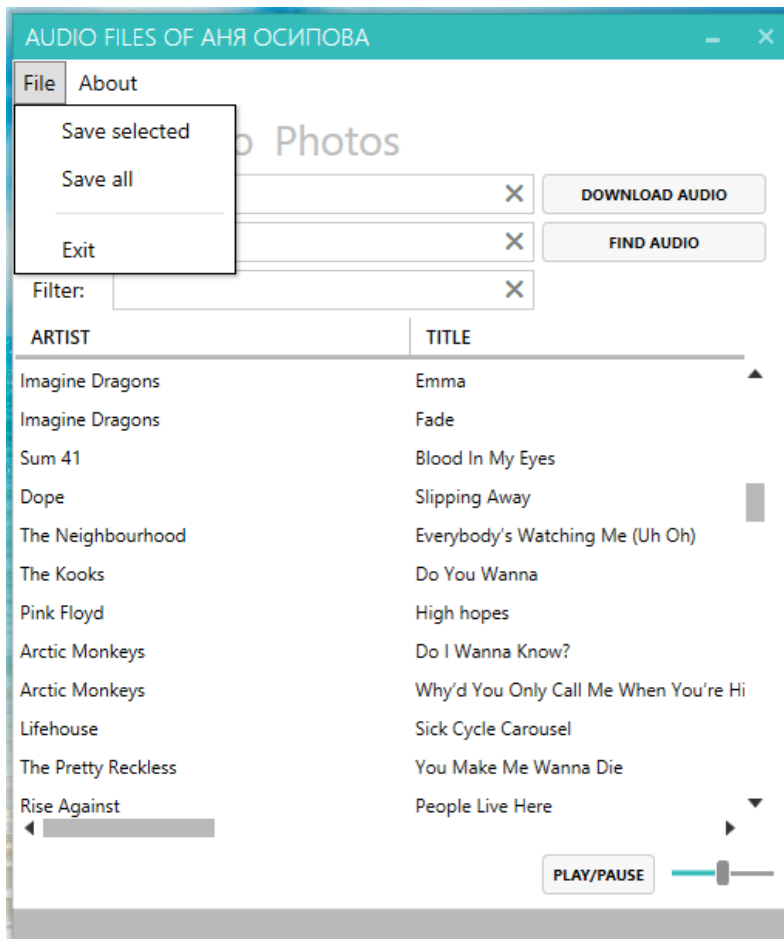


Also user can use field “Filter” to filtrate the resulting audio list by some criteria.

The way to control the audio: double click to listen, Play/Pause button to pause or resume playing and slider for volume adjustment.

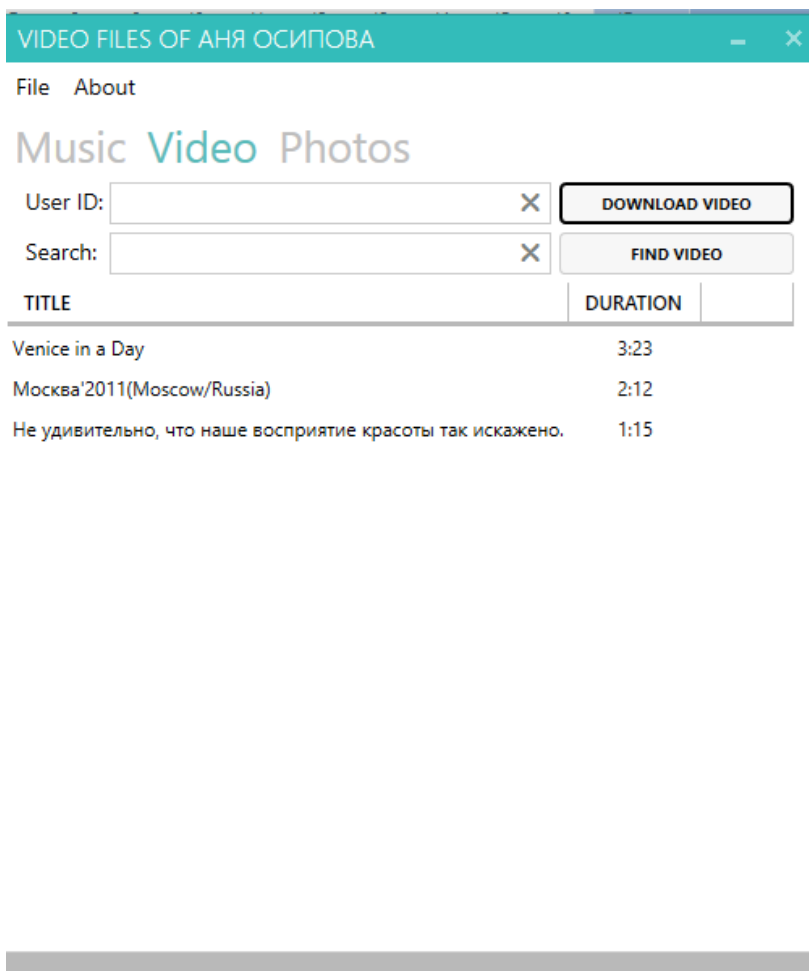


Textbox User ID understands the ID format, as well as personal link to VK.COM the page and helps to find the music of other users.

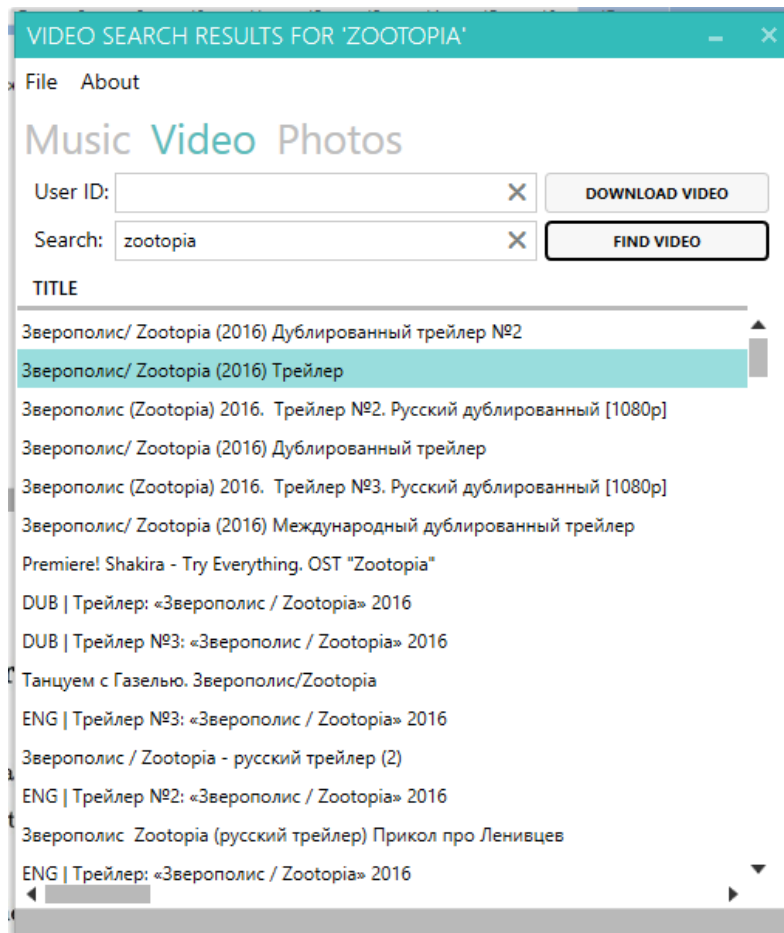


Also user can download selected file or all at once.

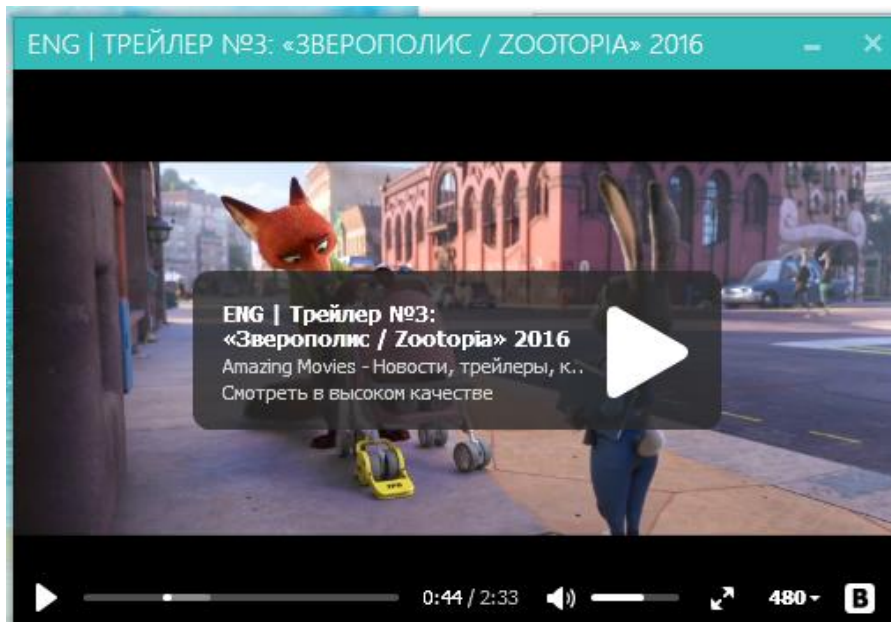
2. Video functional



If user clicks the button "DOWNLOAD VIDEO" he sees all his video.

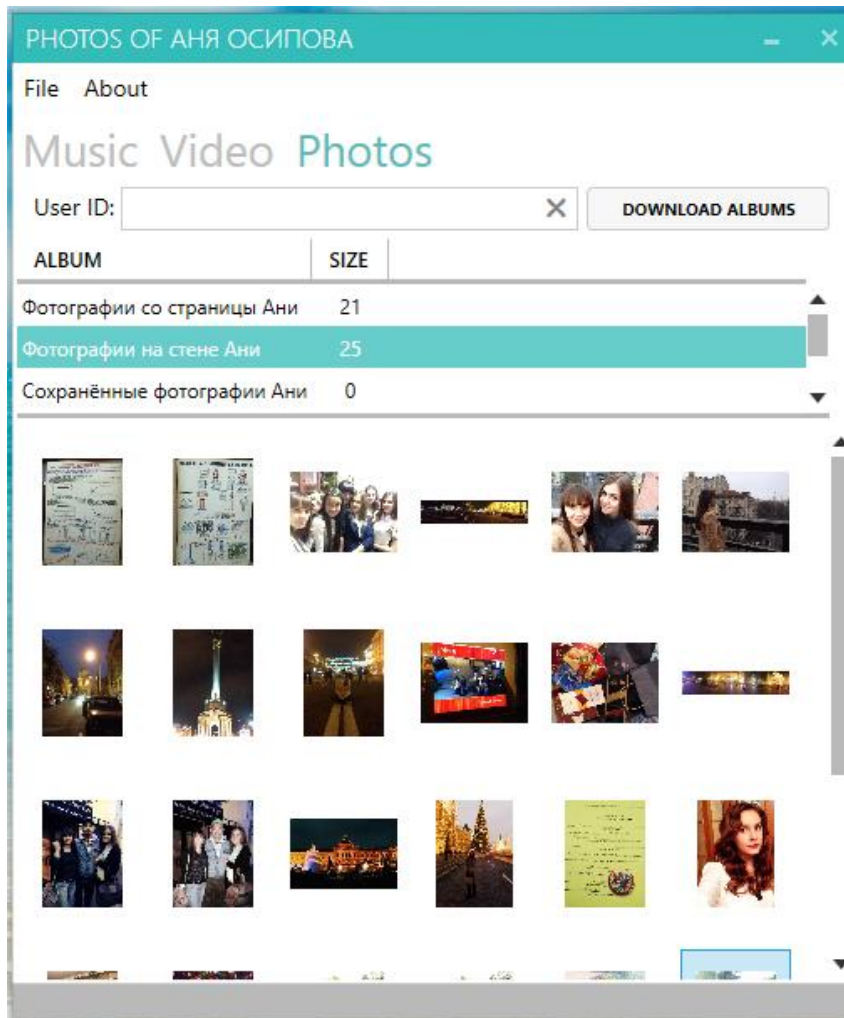


User can search for the video and play it by double click.

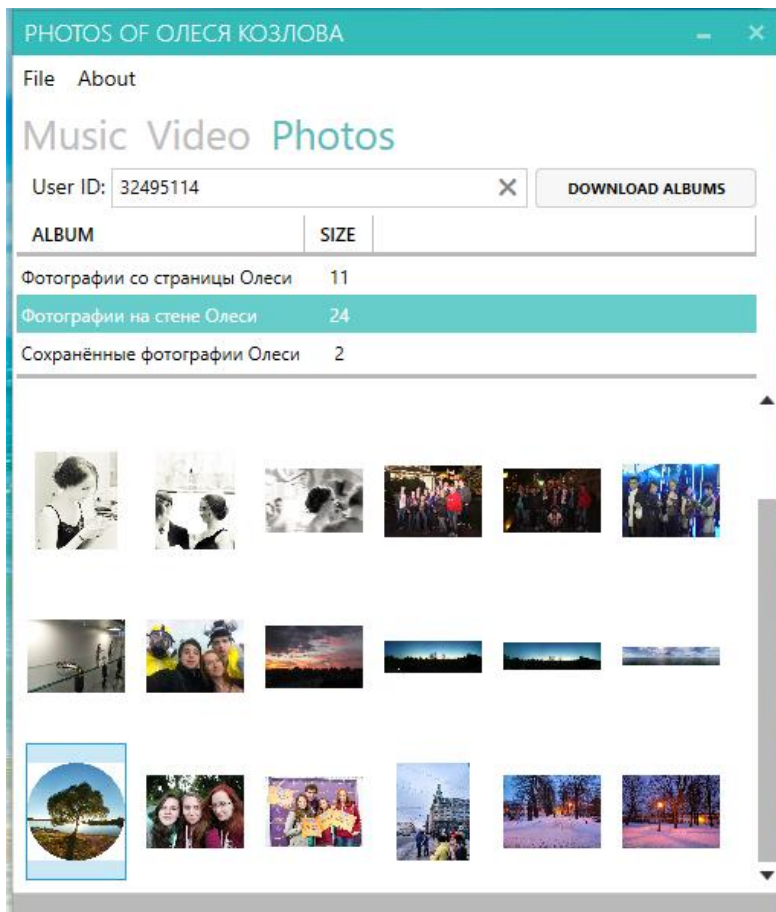
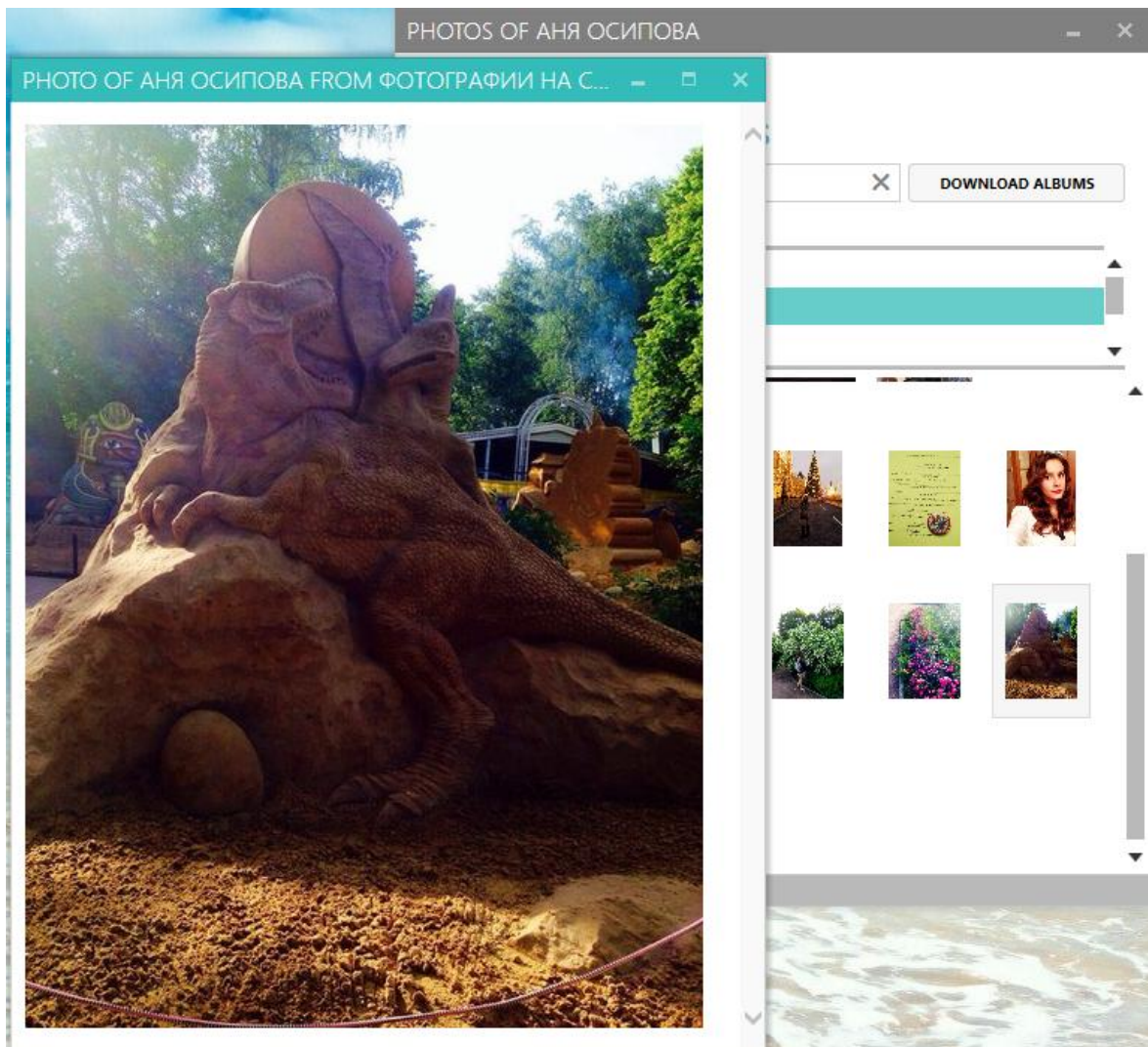


Playing video will open in new window.

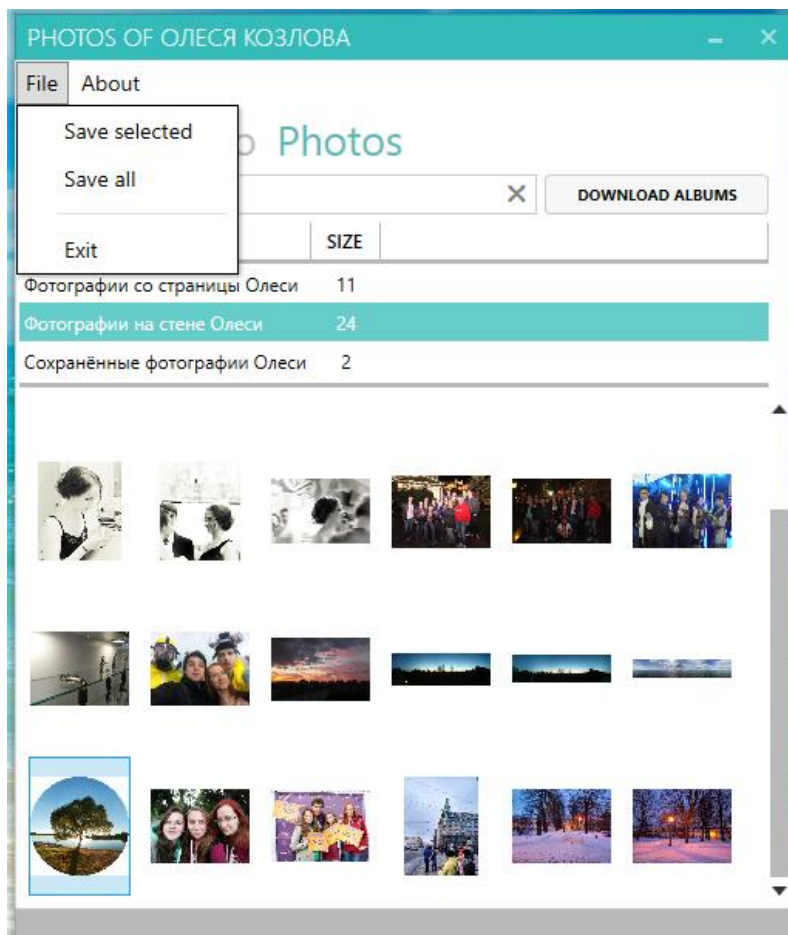
3. Photos functional



If user click the button "DOWNLOAD ALBUMS" he sees all his albums. Then he can select concert album by double click. Then user can open one of the photos also by double click.



Also user can print ID of other persons to see he/she photos and he can make the same actions with it as with his photos.



User can download all photos or selected one.