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UNIVERSITATEA TEHNICA DIN MOLDOVA
FACULTATEA "CALCULATOARE, INFORMATICA SI MICROELECTRONICA
FILIERA ANGLOFONA

Raport

LUCRARE DE LABORATOR NR. 5
LA
MEDII INTERACTIVE DE DEZVOLTARE A PRODUSELOR SOFT

A efectuat:

st.gr. FAF-131

Tudor Plugaru

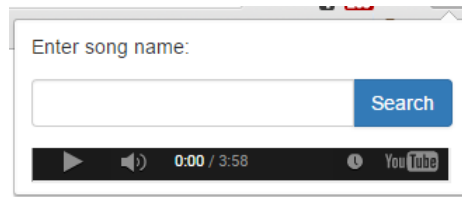
A verificat:

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Sava Virtosu

Browser Extension

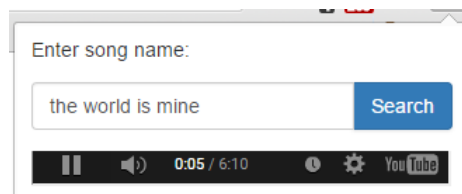
For this I have developed a browser extension for Google Chrome. The extension uses Youtube API to search on Youtube and play songs from there. Here is a screenshot of it:



The extension has the following files:

- manifest.json - the manifest file gives information about the extension, such as the most important files and the capabilities that the extension uses.
- popup.html - the html code for the pop-up window that appears when the icon is clicked.
- popup.css - the css code for the popup.html page.
- search.js - the script file that is responsible for searching the song on YouTube.
- logo.png - the icon of extension.
- jquery.min.js - the jQuery library.
- bootstrap.min.css - the Bootstrap CSS styles.

To play YouTube songs I have used YouTube API. I have created a developer account on Google and requested a API key so that I could connect to YouTube and search the songs on it. I have used Bootstrap for styling my extension. It has a simple design, a search box with a button and the youtube player from which you can play/pause the song. If we type in the search box the song name, then hit search button and then hit play button from the player, the song should start playing. Here is a screenshot:



I have completed the task in proportion of 90% because when the pop-up window disappears, the music stops playing. This is happening because of Google security policy. When the pop-up page disappears, the HTML code behind the page is unloaded and the memory is freed. In this way, the YouTube player is deleted and the music is not playing any more. I think that this is good from the point of view of security, in this way, the developers can't run some code in the background so that the user can't see what is happening.

Conclusion

After executing this laboratory work, I have got familiar with JavaScript, HTML and CSS, also with Google Chrome extensions. I have learned a lot during execution of this laboratory work. In the future I want to continue to develop this extension because it's a good idea to play youtube music without opening youtube. :)