# **Console Sale Report Web App**

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# I) Introduction

The main goal of this web app is to demonstrate the ability of querying data from regional database, modifying by employing Python and its library as well as displaying the data in the web browser. Web app interface is built around HTML, CSS and JavaScript, however, they are not the main focus and therefore user interface is somewhat limited. Still, I have done the best with all available time and resources in order to deliver good user experience for the Web App.

The main purpose for the this Web App is to generate sale data report of three giant console manufacturers, namely: Nintendo, Microsoft and Sony from Wikipedia in December 2018 and stored in "data.db". Beside this function, the Web App also allow user to modify the database by insert new entry, update the data and delete the data.

# II) How to use the Web App

# a) Prerequisites:

A computer with latest web browser version, Firefox or Chrome.

Python 3 with bottle library installed.

# b) Run the Web App

Navigating to the folder of web App through Command Prompt (CMD) and run webApp.py

Open web browser and access URL: localhost:9999 or 127.0.0.1:9999

# c)Using the Web App

#### 1)Homepage

The homepage has a carousel of 3 pictures, each presents the idea of the web App. User can click on the title of Web App or **Home** in the navigator any time to return homepage.





<u>Disclaimer:</u> This Website is created for demonstration/ educational purpose only.

Source of dataset: Wikipedia (last update: Dec 2018)



#### 2) Making a report

Accessing report generator by simply click on **Make Report** in the navigator

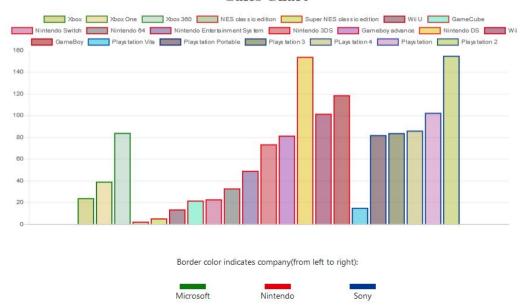
ect Platform(s) below to make a report
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(-)
endo
sic edition Super NES classic edition Wii U GameCube Nintendo Switch Nintendo 6
Entertainment System Nintendo 3DS Gameboy advance Nintendo DS Wii GameB
osoft
Xbox One Xbox 360
ion Vita Playstation Portable Playstation 3 Playstation 4 Playstation Playstation

Here user can choose which platform(s), he/she want to make a report. Click on check boxes and hit **Submit.** 

\*Cheat code: there is a button (reference of Starcraft game) to get all data from a single click.

After that, the web App will create a bar chart of the selected data. The color of the bar is randomized in other to distinguish platform name; however, the border color indicates the company is not randomized. Then a basic summary of total sales name of best selling platform and its sale number in the selected data in each respective company is queried.





#### **Basic summary from selected data:**

Firm	Total Sales (rounded)	Best-selling Platfrom	Units sold
Microsoft	147.0	Xbox 360	84.0
Nintendo	677.0	Nintendo DS	154.02
Sony	524.0	Playstation 2	155.0

#### There is a toggle to show the selected (current) data:

Sony	524.0	Playstation 2	155.0	

\*Sales number in million

Show/hide the current data:

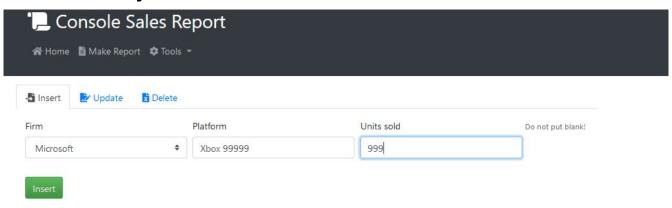
Firm	Platfrom	Units sold
Microsoft	Xbox	24.0
Microsoft	Xbox One	39.1
Microsoft	Xbox 360	84.0
Nintendo	NES classic edition	2.3
	a was it is less	5.00

Choosing none will generate web page with graph, table of no data though.

#### 3) Modifying database

Accessing modifying tools by clicking on Tools in the navigator

#### **Insert new entry:**



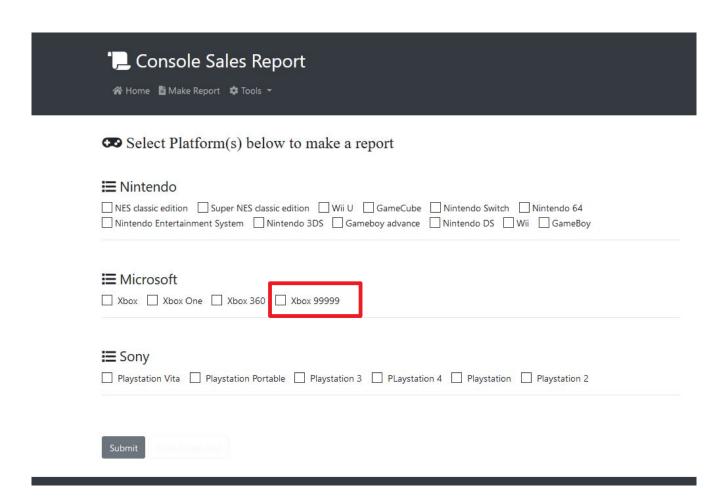
In the **Insert** tab, user can add new entry by choosing firm (one out of three), entering name of new platform and units sold.

#### **Update entry:**

Likewise, user can update entry in the Update tab

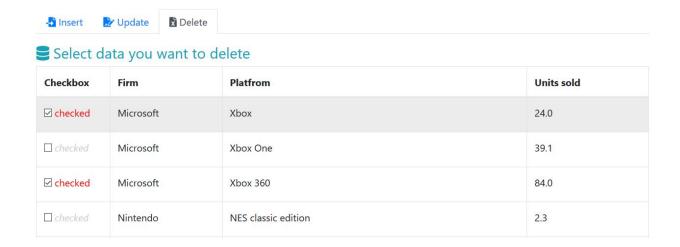


The Web App will also update the **Make Report** page with new insertion or update:



#### **Delete entry:**

Deleting entry is simple, select the checkbox, red word will remind your current selection, then click on **delete** button.



# d) Error Handling

It is highly advised for user not to navigate the website through URL, since it could have led to error 404 or error 500 when user try to access **createTable** page manually. In this case, the website will direct user to error page, click on the image to get back the **hompage**.





# **Appendix**

Database from <a href="https://en.wikipedia.org/wiki/List\_of\_best-selling\_game\_consoles">https://en.wikipedia.org/wiki/List\_of\_best-selling\_game\_consoles</a> (in December 2018)

Images from freepik.com with free license.

Python framwork and library: bottle, sqlite3

JavaScript library: ChartJS, fontawesome, bootstrap 4 and its related library