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SoftDev

2023-05-01

Target Ship Date: 2023-05-22

Final Delivery Date: 2023-05-24

1. Program Components

i) Main Page

- Will contain icons of the each of the three regions in which the data is available, (North America, Europe, Japan) which serve as links to a pages dedicated to those regions
- Users can select multiple genres (ie: sports), or a platform (ie: Xbox 360), and see global trends, namely how specific genres and platforms have performed over time

ii) North America Page

- A bar graph with a slider for the length of the time period and a genre selector to see game sale statistics for that genre
- Also contains a line graph that shows the performance of all genres of games from 1980-2015 in a single graph

iii) Europe Page

- Same as North America Page w/ Europe data

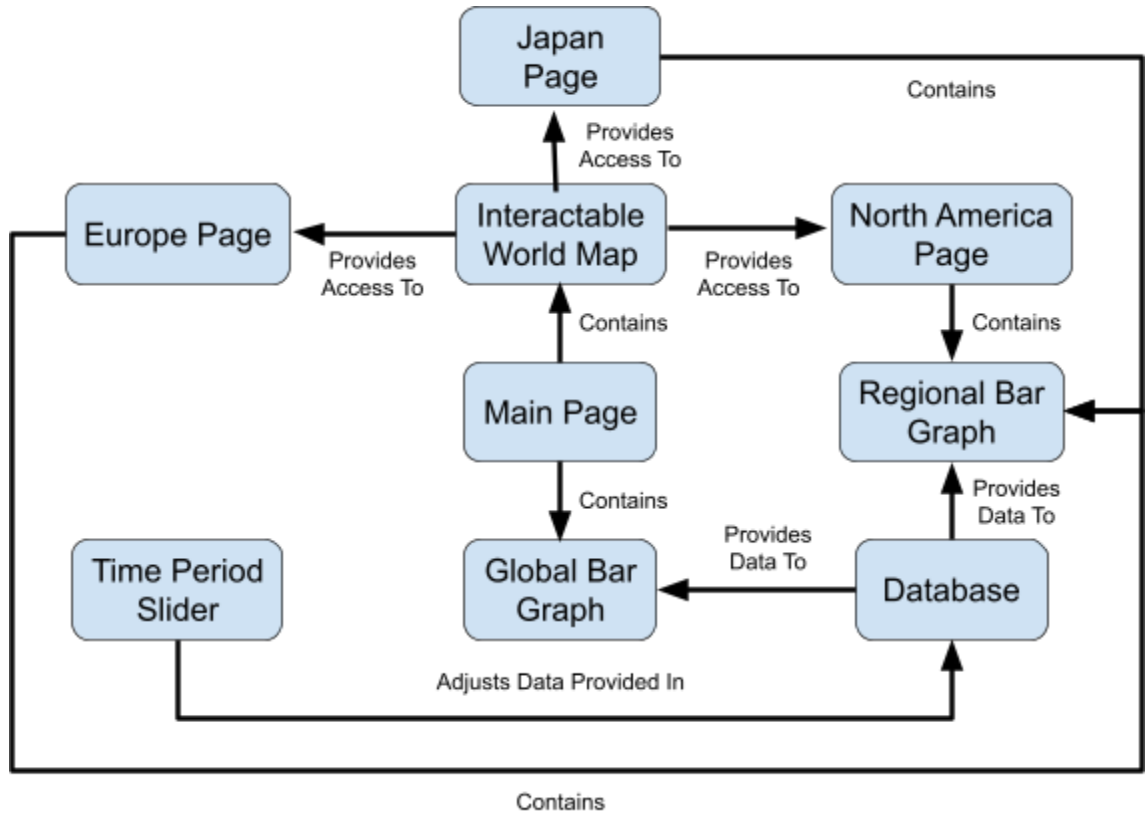
iv) Japan Page

- Same as North America Page w/ Japan data

v) Flask API

- We will make Python functions to return the data from the db housed in SQLite3
- It will convert the query results to python dictionaries, which are then sent to the frontend via render_template

2. Component Map



3. Database Organization

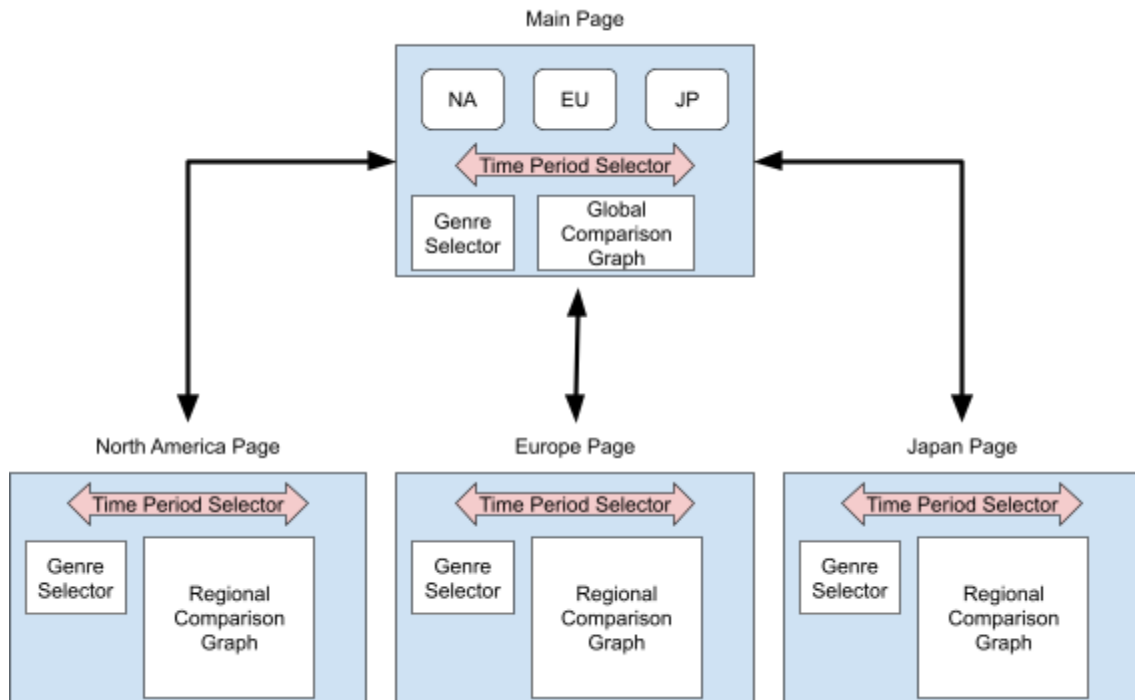
ID	Name	Platform	Year	Genre	Publisher	NA_Sales	EU_Sales	JP_Sales	Other_Sales	Global_Sales
Explanation	Name of the game	Which platform it was released on (eg: Xbox 360)	Year of release	Genre of the game (eg: sports)	Publisher of the game	# of sales in North America	# of sales in Europe	# of sales in Japan	# of sales everywhere else	# of sales globally
2	Wii Sports	Wii	2006	Sports	Nintendo	41.49	29.02	3.77	8.46	82.74

All sales are measured in millions of copies sold.

Link(s) to dataset(s) used:

<https://www.kaggle.com/datasets/gregorut/videogamesales>

4. Site Map



Slider for bar graph to adjust width (time interval of 1-5 years)

index.html:

- Landing page where the user will be able to interact with a regional icons and click on the different regions to go to those pages
- There will also be graphs that relate to all 3 regions on this page

northAmerica.html

- Will contain graphs that relate to the region of North America specifically
- Bar graphs to show game sales for a specific genre in the Americas
- Line graphs show game sales for all genres throughout time in the Americas

europe.html

- Same as northAmerica.html but for Europe

japan.html

- Same as northAmerica.html but for Japan

style.css

- Will contain all of the styling for our landing page

script.js

- Interactive map and graphs will be coded here

northAmerica.js

- Graphs and sliders will be coded here

europe.js

- Graphs and sliders will be coded here

japan.js

- Graphs and sliders will be coded here

5. Front-End Framework

We will use Bootstrap because our group has more experience with it, we think it looks prettier than Foundation, and the documentation is clear.

6. Task Breakdown

Matthew Yee - Interactive Map, Global Graphs

Vivian Graeber - Flask, Serving droplet

Samantha Hua - SQL, html, css

Vansh Saboo - Graph design, data formatting

- ☒ ~~Determine the graphs that we want to make~~
 - ☒ ~~Bar graphs~~
 - ☐ ~~Scatterplots (scrapped)~~
 - ☒ ~~Line graphs~~
- ☒ ~~Format the data so that it will graph nicely (Samantha)~~
 - ☒ ~~CSV files to sqlite files~~
- ☒ ~~Basic html to get the project rolling (Samantha)~~
- ☒ ~~Create SQL queries that the graphs need (Samantha)~~
- ☒ ~~Make the graphs one by one (Matthew and Vansh)~~
 - ☐ ~~Interactive map (scrapped)~~
 - ☒ ~~Line graphs~~
 - ☒ ~~Bar graphs~~
- ☒ ~~Touch up HTML if needed (Samantha)~~
- ☒ ~~Type up the CSS using Bootstrap (Samantha)~~
- ☒ ~~Figure out how to host website (Vivian)~~
 - ☒ ~~Create droplet~~
 - ☒ ~~Get new domain from Willy V~~
 - ☒ ~~Serve droplet~~