Game Prices Comparison With Flask and Scrapy

Group 6

Hanifi Abrar Setiawan– 112021224
Abiansyah Adzani Gymnastiar– 112021201

Project Overview

A website for **video game prices comparison** from different **platforms**.

Project Goals:

- Scrape deals from Steam, Xbox, PlayStation, and Epic Games
- Extract game title, prices, discount, image, link
- Show results in a clean web app using Flask
- Implement search query system for finding specific game titles easily

Tools/Libraries Used

Web Scraping

- 4 spiders for each game stores (Steam, Xbox, PlayStation, Epic Games)
- Custom selectors for each site
- Pagination and error handling
- Output in XML format

Web Scraping

Parsing methods:

Response Validity Check

If the response is empty, yields null.

→

Game Data Extraction Loop

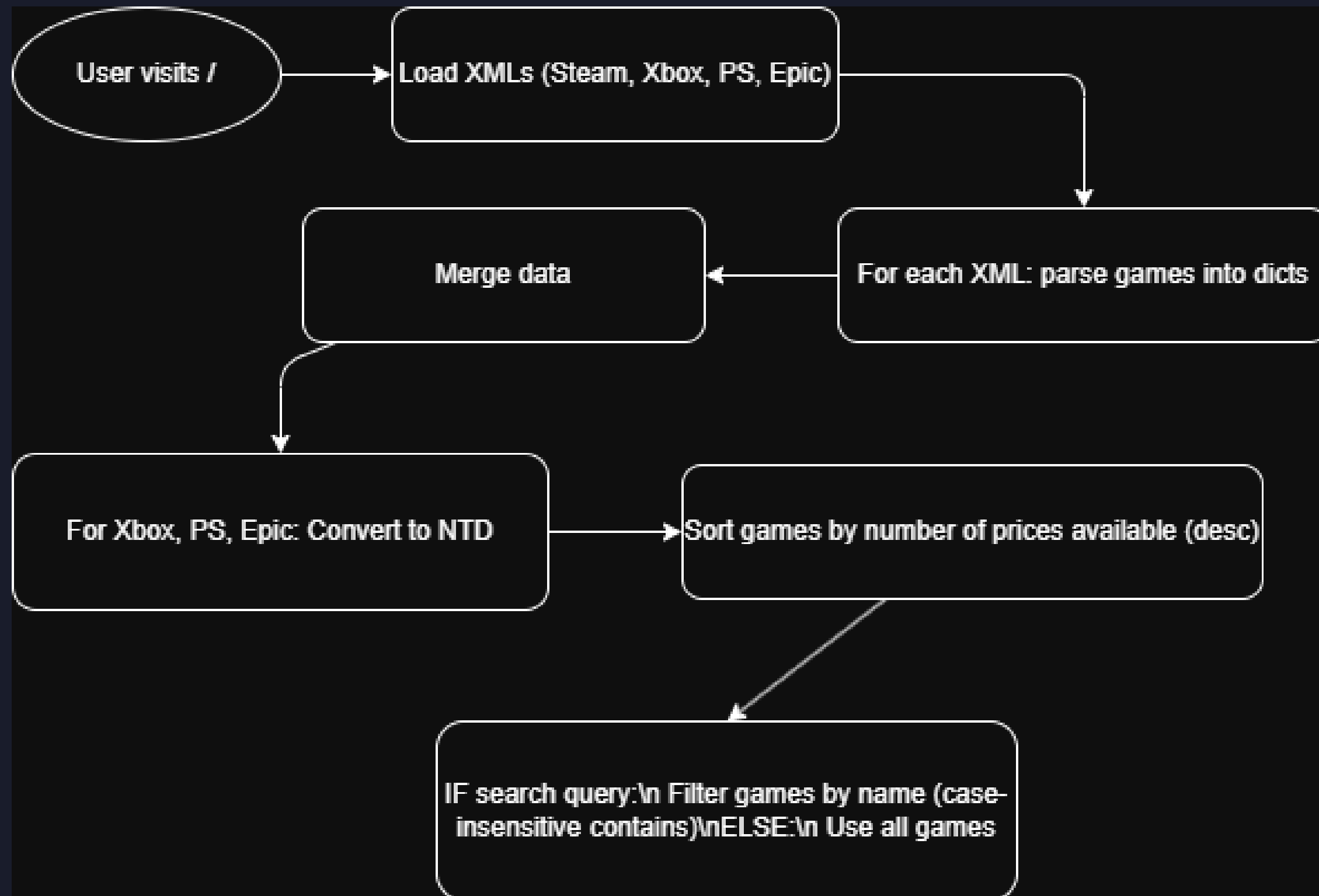Extracts name, image_url, link, prices, and discount.

→

Fallback for Missing Results

If no matching game cards are found, yield an error

Web App

- Flask as the framework
- Home: Browse by platform
- Search: Filter by game name
- Link: Open the game's store website from a click

Web App (Data Retrieval)

Results (Web Home)

Results (Web Search)

Conclusion

In Conclusion, this project has successfully implemented different methods of advanced computer programming, especially using framework to build a web and scraping websites to gather contents. By utilizing Scrapy, spiders were created for four major online game stores.

The final product of this project provides insightful technical skills in web scraping and Flask development exercise. Other than that, it also provides new technical skills in problem-solving abilities when handling inconsistent HTML structures, missing values, and dynamic websites that use JavaScript.

PROJECT DEMO...