Netflix Marketing research

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INTRODUCTION





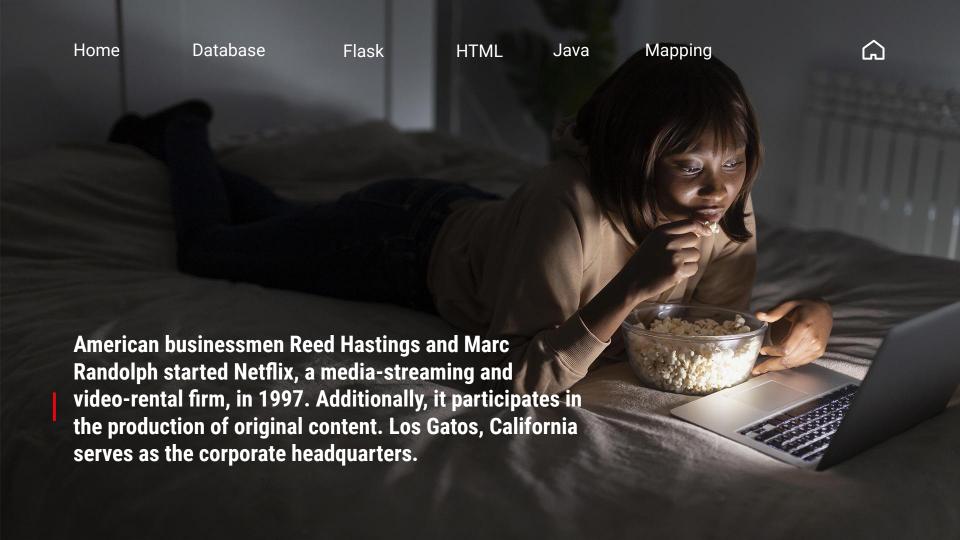
WHAT IS NETFLIX?

With more than 70 million subscribers in more than 190 countries watching more than 125 million hours of TV shows and movies every day, including original series, documentaries, and feature films, Netflix is the most popular Internet television network in the world. On almost any screen that is linked to the Internet, members can watch as much as they want, whenever and wherever. Without interruptions or obligations, members can play, pause, and resume watching at any time.









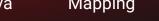
When did they go live?

On January 6, 2016, Netflix debuted its service worldwide in Las Vegas, expanding its Internet TV network to more than 130 new nations. Since launching its streaming service in 2007, Netflix has reached 60 different nations by first entering Canada, then Latin America, Europe, Australia, New Zealand, and Japan.

















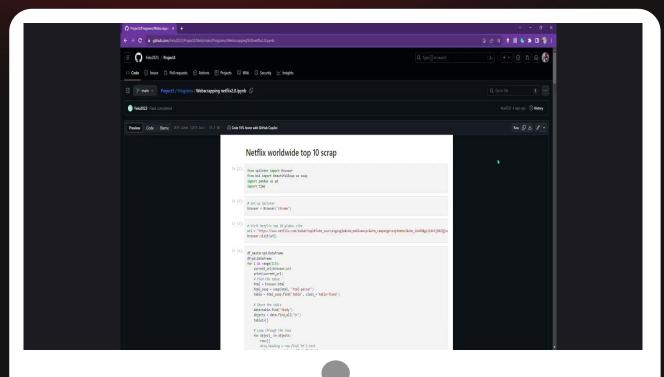
| NETFLIX TUDUM

The official Netflix companion website, Tudum, provides information to viewers about the shows and movies they enjoy. Exclusive interviews, behind-the-scenes material, additional movies, and more are all available on Tudum. Additionally, if you sign in using your Netflix credentials, you will have a more tailored experience based on the Netflix series and films that you have recently rated or viewed.





















| Flask



What is Flask?

A Python web application framework called Flask makes it simple to create web applications. It was created by Armin Ronacher, who served as the team leader of Poocco. Its core is compact and simple to extend; it's a microframework without an object relationship manager or similar capabilities. It does have a lot of great features, including a template engine and url routing. It is a web app framework for WSGI.



What is a Web Framework

Web application developers can design apps without having to be concerned about low-level aspects like protocol, thread management, and other issues thanks to a web framework, also known as a web application framework.











WSGI

For the creation of Python web applications, the Web Server Gateway Interface (WSGI) has been the de facto standard. The WSGI specification describes a standard interface for web servers and online applications.



jinja2

A well-liked Python template engine is inja2. A web template system renders a dynamic web page by fusing a template with a particular data source.



Werkzeug

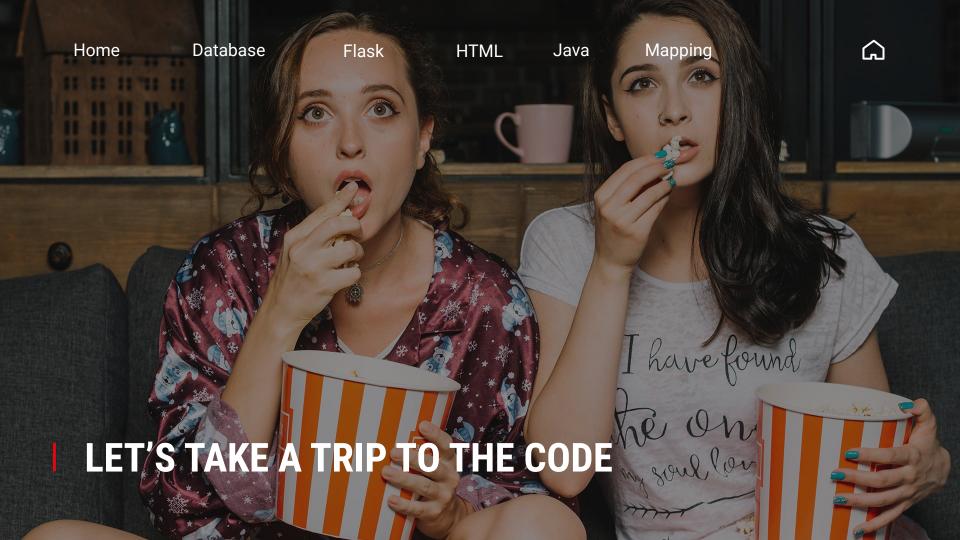
Requests, response objects, and utility functions are all implemented by the WSGI toolkit known as Werkzeug. On top of it can now be created a web frame. Werkzeg serves as one of the foundations of the Flask framework.



Microframework

Many people refer to Flask as a microframework. It is intended to keep the application's core simple and scalable. Instead of using an abstraction layer to enable databases, Flask allows extensions to the application to add these features.







```
import numpy as np
      from sqlalchemy.ext.automap import automap_base
      from sqlalchemy.orm import Session
      from datetime import datetime
      from flask cors import CORS
      import pandas as pd
      engine = create_engine("sqlite:///Netflix_DB.sqlite")
      Base = automap base()
      Base.prepare(autoload_with=engine)
      global1 = Base.classes.global1
      canada - Base.classes.canada
      united kingdom_Base_classes_united kingdom
      australia=Base.classes.australia
      egypt=Base.classes.egypt
      countries-Base.classes.countries
      app = Flask(__name__)
      CORS(app, resources={r"/api/*": {"origins": "http://127.0.0.1:8005"}})
41 V def welcome():
          """List all available api routes."""
              f"Available Routes:!!!!!!cbr/>"
             f"/api/v1.0/global1<br/>
             f"/api/v1.0/global2<br/>
              f"/api/v1.0/canadacbr/>"
              f"/api/v1.0/united_kingdom<br/>"
              f"/api/v1.0/australia<br/>
              f"/api/v1.0/egyptcbr/>"
              f"/api/v1.0/countries"
```

```
gapp.route("/api/v1.0/global1")
  # Create our session (link) from Python to the DB
session = Session(engine)
    ""Return a list of global1 data""
    results = session.query(globali.No, globali.movie, globali.week_at_Top10,globali.hours_seen,globali.duration,globali.views).all()
    for No, movie, week_at_Topi0, hours_seen, duration, views in results
       data dict - ()
       data_dict["No"] - No
        data_dict["movie"] - movie
       data dict["week at Top10"] - week at Top10
       data_dict["hours_seen"] = round(hours_seen,2)
        data_dict["duration"] = str(duration)
        data dict["views"] = round(views.2)
        all_data.append(data_dict)
    return isonify(all data)
@app.route("/api/v1.0/canada")
def canada func():
    ""Return a list of the selected country data""
   results = session.query(canada.No, canada.movie, canada.week_at_Top10).all()
   all_data = []
    for No, movie, week_at_Top10 in results:
       data dict = {}
       data dict["No"] = No
        data_dict["movie"] = movie
       data dict["week at Top16"] - week at Top16
       all data annend(data dict)
     return |sonify(all data)
gapp.route("/api/v1.0/united kingdom")
 # Create our session (link) from Python to the DB
session = Session(engine)
    ""Return a list of the selected country data""
    results = session.query(united_kingdom.No, united_kingdom.movie, united_kingdom.week_at_Top10).all()
```







```
for No, movie, week at Top10 in results:
        data_dict = {}
       data_dict["No"] - No
        data_dict["movie"] = movie
        data dict["week at Top18"] - week at Top18
        all_data.append(data_dict)
    return jsonify(all_data)
gapp.route(*/api/v1.0/egypt")
    """Return a list of the selected country data"""
    results = session.query(egypt.Wo, egypt.movie, egypt.week_at_Topi0).all()
    all data = []
    for No, movie, week_at_Top10 in results:
       data_dict = {}
        data_dict["No"] = No
        data dict["movie"] = movie
        data_dict["week_at_Top10"] = week_at_Top10
        all_data.append(data_dict)
    return jsonify(all_data)
Bapp.route("/api/v1.0/australia")
    """Return a list of the selected country data"""
    results = session.query(australia.No, australia.movie, australia.week at Topi0).all()
    all_data = []
    for No, movie, week at Topie in results:
        data_dict = {}
        data_dict["No"] = No
        data dict["movie"] = movie
        data_dict["week_at_Top10"] = week_at_Top10
        all_data.append(data_dict)
```

```
@app.route("/api/v1.0/australia")
146 V def australia func():
           """Return a list of the selected country data"""
           results = session.query(australia.No, australia.movie, australia.week_at_Top10).all()
           all_data = []
           for No, movie, week_at_Top10 in results:
              data_dict = {}
              data dict["No"] = No
               data_dict["movie"] = movie
               data_dict["week_at_Top10"] = week_at_Top10
               all data.append(data dict)
           return jsonify(all_data)
       @app.route("/api/v1.0/global2")
      def global2_func():
           results = session.query(global1.No, global1.movie, global1.week_at_Top10,global1.hours_seen,global1.duration,global1.views).all()
           all data = []
           max_week_scores = df.groupby('movie')['week_at_Top10'].max().reset_index()
           max week scores-max week scores.sort values('week at Top10',ascending-False)
           for index, row in max week scores.iterrows():
                   result_dict={}
                   result dict = row.to dict()
                   result_dict['No']=i
                   all_data.append(result_dict)
           return jsonify(all_data)
           app.run(debug=True)
```









| What is Java?

Web developers frequently employ the lightweight programming language JavaScript to include dynamic interactions in web pages, applications, servers, and even video games.

- It functions in perfect harmony with HTML and CSS, completing CSS's role of formatting HTML components while also enabling user interaction, which CSS by itself is unable to do.
- JavaScript is a useful language to master because of how frequently it is used in game, mobile app, and online development.







```
document.addEventListener("DOMContentLoaded", function () {
   const globalTab = document.getElementSyId("global-tab");
  const canadaTab = document.getElementById("canada-tab");
  const egyptTab = document.getElementById("egypt-tab");
   const ukTab = document.getElementById("uk-tab"); // New tab
   const australiaTab = document.getElementById("australia-tab"); // New tab
   const movieTable = document.getElementById("movie-data");
   const nextButton = document.getFlementRvId("next-button"):
   const previousButton = document.getElementById("previous-button"):
   const barChartDiv = document.getElementById("bar-chart");
   const movieTable2 = document.getElementById("movie-data2");
    const nextButton2 = document.getElementSyId("next-button2");
   const previousButton2 = document.setflementById("previous-button2"):
   let currentPage = 0; // Current page for pagination
   const pageSize = 18: // Number of rows per page
   let currentTabId = "global1"; // Initialize with the default tab
   let currentTabId2 = "global2"; // Initialize with the default tab
   globalTab.addEventListener("click", () => loadMovieData("global1"));
   canadaTab.addEventListener("click", () => loadMovieData("canada")):
   egyptTab.addEventListener("click", () => loadMovieData("egypt"));
    ukTab.addfventListemer("click", () => loadMovieData("united_kingdom")); // New tab
    australiaTab.addEventListener("click", () -> loadMovieData("australia")); // New tab
   nextButton.addEventListener(*click*, () => nextPage());
   previousButton.addEventListener("click", () => previousPage());
   nextButton2.addEventListener("click", () => nextPage2());
   previousButton2.addEventListener("click", () => previousPage2());
   function loadMovieData(apiEndpoint) (
       currentTabId = apiEndpoint; // Update the current tab
       fetch('http://127.0.0.1:5000/api/v1.0/${apiEndpoint}')
          .then((response) -> response.jsom())
           .then((data) => {
              movieTable.innerHTML = "";
              const startIndex = currentPage * pageSize;
               const endIndex = startIndex = pageSize;
               const currentPageData = data.slice(startIndex, endIndex);
              for (let i = 0; i < currentPageData.length; i++) {
                  const movie = currentPageData[i];
                   const row = document.createElement("tr");
                     ${movie.week at Top10}
```

```
ctd>${movie.views}c/td>
           undateRarChart(currentPageData):
         .catch((error) => {
           console.error("Error fetching data:", error);
function previousPage() (
   if (currentPage > 0) {
         loadMovieData(currentTabId);
 function updateBarChart(data) {
    const movieNames = data.map((movie) => movie.movie);
    const chartData = [{
       y: weeksAtTop10,
       type: 'ban',
    const layout = {
       title: 'Weeks at Top 10',
    Plotly.react(barChartDiv, chartData, layout);
loadMovieData("global1");
currentTabId2 = apiEndpoint2; // Update the current tab
```

```
fetch('http://127.0.0.1:5000/api/v1.0/${apiEndpoint2}')
              .then((response) => response.json())
              .then((data) => {
                 movieTable2.innerHTML = "";
                 const startIndex2 = currentPage * pageSize;
                 const endIndex2 = startIndex2 + pageSize;
                  const currentPageData = data.slice(startIndex2, endIndex2);
                 for (let i = 0; i < currentPageData.length; i++) {
                    const movie = currentPageData[i];
                     row.innerHTML =
                        ${movie.No}
                        ${movie.week_at_Top10}
                     movieTable2.appendChild(row);
                 console.error("Error fetching data:", error);
146 V function nextPage2() {
           loadtop10top10("globa12");
         if (currentPage > 0) {
             currentPage--;
              loadtop10top10("global2");
       loadtop10top10("global2");
```











| What is HTML



HyperText Markup Language

It is a common markup language used to create web pages. Using HTML components, such as tags and attributes, it enables the development and structuring of sections, paragraphs, and links.



| HTML has a lot of use cases, namely:



Web development

To control how text, hyperlinks, and media files are displayed by browsers, developers employ HTML code.



Internet navigation

Since HTML is widely used to embed hyperlinks, users may navigate and insert links between relevant pages and websites with ease.



Web documentation

Similar to Microsoft Word, HTML allows for document organization and formatting.





6

| What is CSS?

CSS, or Cascading Style Sheets, is a markup language that is used to style elements in markup languages like HTML. It divides the website's visual design from its content. Since HTML serves as a site's very foundation and CSS handles all of the aesthetics for a whole website, the two are closely related.









```
«IDOCTYPE html»
<html lang="en">
<head>
   <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Top 10 Movie Dashboard NETFLIX</title>
    k rel="stylesheet" href="styles2.css">
 </head>
    <div class="scroll-container">
    <div class="header">
    <h1>Top 10 Movies NETFLIX</h1>
   <div class="tabs">
    <button id="global-tab">Global</button>
    <button id="canada-tab">Canada</putton>
    <button id="egypt-tab">Egypt</button>
    <button id="uk-tab">United Kingdom</button> <!-- New tab -->
    <button id="australia-tab">Australia</putton> <!-- New tab -->
 <div class="main-container">
    <thead>
              cth>Noc/th>
              Moviec/th>
              offiniteeks at Top 18c/ths
              Hours Seen
              Duration
              Views
       </thead>
       <button id="previous-button">Next week</button>
    <button id="next-button">Previous week</button>
    <div id="bar-chart">
       <div id="plotly-chart"></div>
```

```
No
        Movie
        Weeks at Top 10
         Hours Seen
         Duration
         Views
  <button id="previous-button">Next week</button>
<button id="next-button">Previous week</button>
<div id="bar-chart">
  <div id="plotly-chart"></div>
<thead>
        No
        Movie
        Weeks at Top 10
  <button id="previous-button2">Next week2</button>
<button id="next-button2">Previous week2</button>
<script src="https://d3js.org/d3.v5.min.js"></script>
<script src="https://cdnjs.cloudflare.com/ajax/libs/leaflet/1.7.1/leaflet.js"></script>
<script src="https://cdn.plot.lv/plotly-latest.min.is"></script>
<script src="./Javascript/Readflaskdata6.0.js"></script> <!-- Tu archivo de JavaScript personalizado -->
```

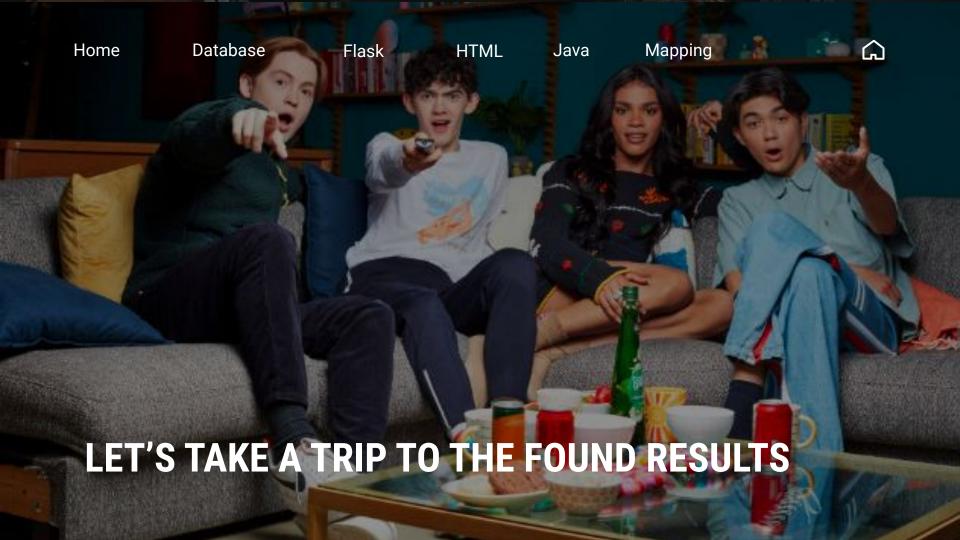












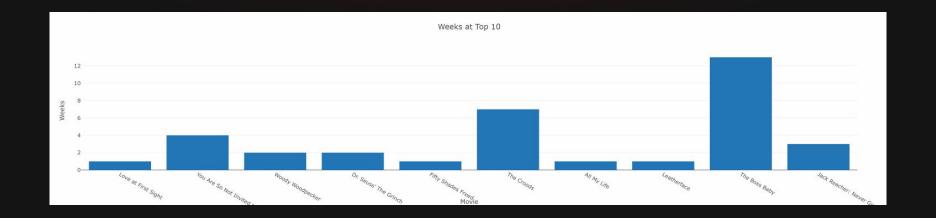


No	Movie	Weeks at Top 10	Hours Seen	Duration	Views
1	Love at First Sight	1	21400000.00	01:31:00	14100000.00
2		4	7400000.00	01:44:00	4300000.00
- 4	You Are So Not Invited to My Bat Mitzvah				
3	Woody Woodpecker	2	5300000.00	01:31:00	3500000.00
4	Dr. Seuss' The Grinch	2	4900000.00	01:26:00	3400000.00
5	Fifty Shades Freed		5900000.00	01:45:00	3400000.00
6	The Croods		5200000.00	01:38:00	3200000.00
	All My Life		4600000.00	01:32:00	3000000.00
8	Leatherface		4300000.00	01:28:00	2900000.00
9	The Boss Baby	13	4600000.00	01:38:00	2800000.00
10	Jack Reacher: Never Go Back	3	5200000.00	01:58:00	2600000.00











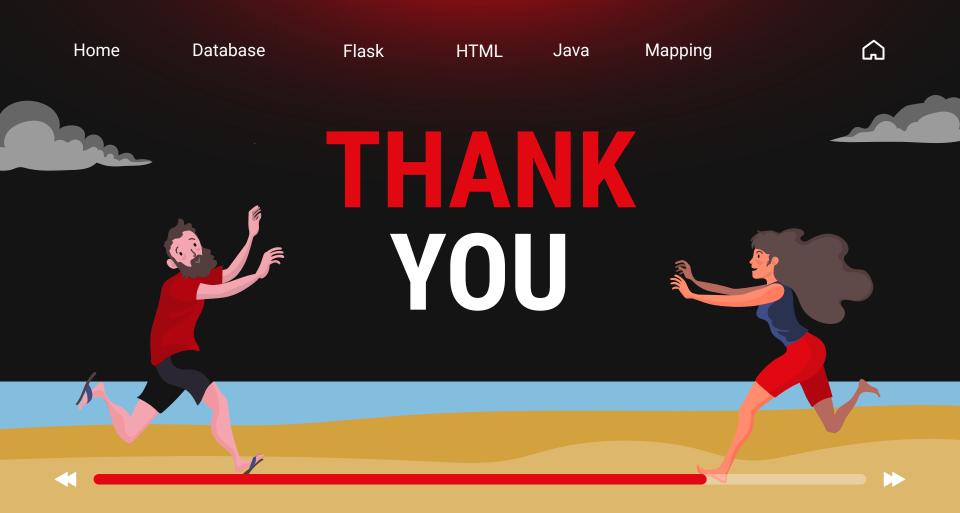




No	Movie	Weeks at Top 10
1	Red Notice	14
2	The Boss Baby	13
3	Despicable Me 2	11
4	Sing	9
5	Sing 2	9
6	The Adam Project	8
7	Don't Look Up	8
8	Sonic the Hedgehog	8
9	Glass Onion: A Knives Out Mystery	7
10	Back to the Outback	7









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