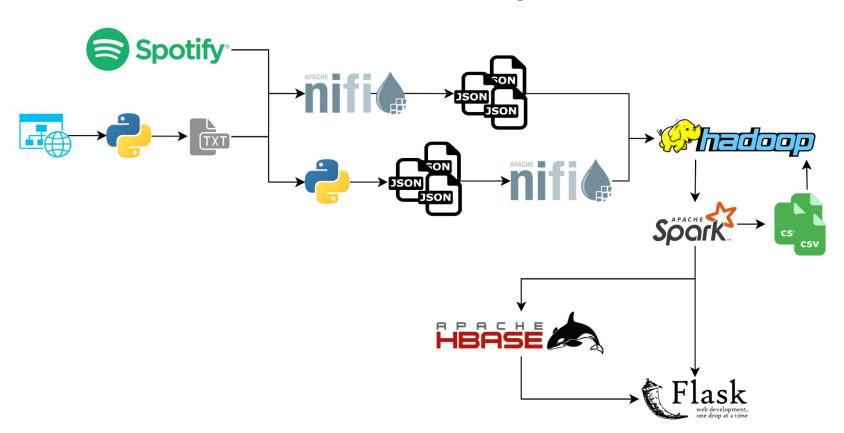
Aplikacja do porównywania artystów zarejestrowanych w serwisie Spotify

Agata Makarewicz & Jacek Wiśniewski

Cel projektu

- udostępnienie artystom ze Spotify raportu z różnymi statystykami
- stworzenie aplikacji klienckiej
- stworzenie architektury do przetwarzania danych Big Data

Schemat rozwiązania



Dane

Artyści

- identyfikator
- imię i nazwisko / pseudonim
- liczba obserwujących
- gatunki, w których tworzą
- popularność

genres	followers	name	id
[dance pop, dance	1855947	WALK THE MOON	6DIS6PRrLS3wbnZsf
[hip hop, pop, po]	1704990	Aminé	3Gm5F95VdRxW3mqCn
[dirty south rap,	3552613	Yo Gotti	6Ha4aES39QiVjR0L2
[german dance, ge	315432	ATB	7jZM5w05mGhw6wTB1
[italian adult po	575501	Boomdabash	4mAsWDGLUIEdo6imU
[polish hip hop]	1136285	Quebonafide	1fxbULcd6ryMNc1us
[melodic rap]	155335	StaySolidRocky	1XLWox9w1Yvbodui0
[alt z, canadian	313373	Lennon Stella	1cZQSpDsxgKIX2yW5
[dance pop, pop,	6676677	Ne-Yo	21E3waRsmPlU7jZsS
[album rock, art	4600255	The Police	5NGO30tJxFlKixkPS
[dominican pop, l	220019	Mariah Angeliq	0KKUc4amZyvswV2YL
[alt z, dance pop	4129350	Madison Beer	2kRfqPViCqYdSGhYS
[afrofuturism, da	1879269	WILLOW	3rWZHrfrsPBxVy692
[manchester hip hop]	757903	Aitch	2PJEagPIxaBugeMjI
[electropop, pop]	1854702	Jeremy Zucker	3gIRvgZssIb9aiirI
[reggaeton, trap	10060	Flow La Movie	2oT7xd9iT02ejLsNG
[turkish trap]	751004	UZI	51DevdOxIJin6DB1F
[polish hip hop,	642922	White 2115	4nPxrGG7k7aEKmNLs
[pop soul]	54961	Parson James	48sLioddyaXkuhyHX
[german hip hop]	1383052	Kollegah	6gto7HVNhu4ARE3P3
	[dance pop, dance [hip hop, pop, po [dirty south rap, [german dance, ge [italian adult po [polish hip hop] [melodic rap] [alt z, canadian [dance pop, pop, [album rock, art [dominican pop, l [alt z, dance pop [afrofuturism, da [manchester hip hop] [electropop, pop] [reggaeton, trap [turkish trap] [polish hip hop, [pop soul]	1855947 [dance pop, dance 1704990 [hip hop, pop, po 3552613 [dirty south rap, 315432 [german dance, ge 575501 [italian adult po 1136285 [polish hip hop] 155335 [melodic rap] 313373 [alt z, canadian 6676677 [dance pop, pop, 4600255 [album rock, art 220019 [dominican pop, l 4129350 [alt z, dance pop 1879269 [afrofuturism, da 757903 [manchester hip hop] 1854702 [electropop, pop] 10060 [reggaeton, trap 751004 [turkish trap] 642922 [polish hip hop, 54961 [pop soul]	WALK THE MOON 1855947 [dance pop, dance Aminé 1704990 [hip hop, pop, po Yo Gotti 3552613 [dirty south rap, ATB 315432 [german dance, ge Boomdabash 575501 [italian adult po Quebonafide 1136285 [polish hip hop] StaySolidRocky 155335 [melodic rap] Lennon Stella 313373 [alt z, canadian Ne-Yo 6676677 [dance pop, pop, The Police 4600255 [album rock, art Mariah Angeliq 220019 [dominican pop, l Madison Beer 4129350 [alt z, dance pop WILLOW 1879269 [afrofuturism, da 757903 [manchester hip hop] Jeremy Zucker 1854702 [electropop, pop] Flow La Movie 10060 [reggaeton, trap 751004 [turkish trap] White 2115 642922 [polish hip hop, pop soul]

Dane

Albumy

- identyfikator artysty
- typ albumu
- identyfikator albumu
- tytuł
- data wydania
- liczba utworów

total_tracks	release_date	name	pe id	album_type	artist_id
2	2021-05-14	A New World	um 1qYgVhLQzmkpDvGuV	album	17ggmeNujCFMkr3zg
12	2021-04-23	Inca Trail Connec	um 1s4Q1KgUS0CmAx5NC	album	17ggmeNujCFMkr3zg
9	2021-02-26	Journeys: Orchest	um 5AhfRz0R24vwYKeaC	album	17ggmeNujCFMkr3zg
8	2020-09-11	Otto Winter-Hjelm	um 4JOWxk9HERWqCWEmC	album	17ggmeNujCFMkr3zg
4			um 5CYHG4Iq2VvjfoyTZ		17ggmeNujCFMkr3zg
38	2020-03-06	Berio: Coro & Cri	um 4AByWTHCLK61mVk0M	album	17ggmeNujCFMkr3zg
-	2020-02-26	Ole Bull - Stages	um 7dfhXqmjA7I6bJhgr	album	17ggmeNujCFMkr3zg
6	2019-12-03	The Best Version	um 012Wbyc0PBPlG4NYX	album	17ggmeNujCFMkr3zg
11	2019-11-15	Singing Oboe	um 2FNyk2ZOrX5szMd5F	album	17ggmeNujCFMkr3zg
15	2019-11-01	Live i Marka	um 10NsBFxBohEs0MIGO	album	17ggmeNujCFMkr3zg
12	2019-09-20	Silently Loud	um 3cMh9BZ7nA1LaTx4g	album	17ggmeNujCFMkr3zg
15	2019-09-13	Ginastera: Harp C	um 5mzYNo9a48F6sDjN6	album	17ggmeNujCFMkr3zg
7	2019-06-07	Poulenc Concertos	um 7M7oEGsBwyQxEqebh	album	17ggmeNujCFMkr3zg
8	2019-04-05	Brahms & Ligeti:	um 6SHGJedSNsYRjJ6vG	album	17ggmeNujCFMkr3zg
9	2019-04-05	Helge Iberg: Song	um 2qp8rrdS9UoivGzlg	album	17ggmeNujCFMkr3zg
13	2019-01-18	My Old Book (30 Y	um 5khHCHHTmmrIqYdBg	album	17ggmeNujCFMkr3zg
4	2018-04-13	Chopin / Schumann	um 08wKh6SuwXWyYOWty	album	17ggmeNujCFMkr3zg
13	2017-09-27	Con Cierto Toque	um 5L9WUGla5CFAB8Dmv	album	17ggmeNujCFMkr3zg
15	2017-06-12	La Flûte Norvégienne	um 73A8VcxUn2xBkKlYn	album	17ggmeNujCFMkr3zg
6	2017-03-10	Variations over V	um 1KPvnm7cHpndLASe3	album	17ggmeNujCFMkr3zg

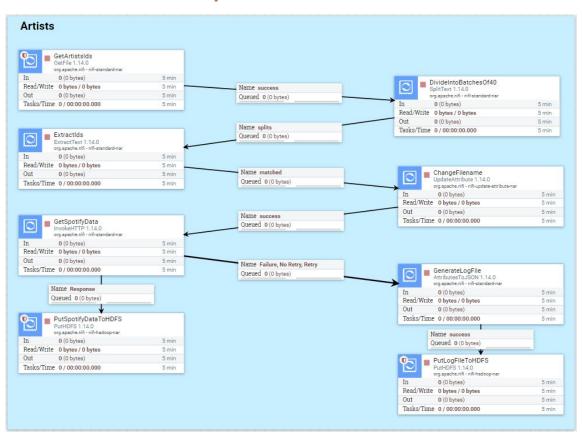
Dane

Utwory

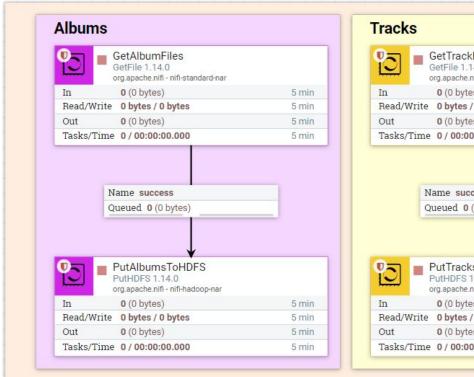
- identyfikator albumu
- długość utworu
- czy zawiera wulgaryzmy
- identyfikator utworu
- tytuł
- popularność
- identyfikator artysty

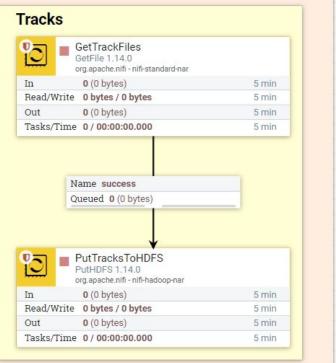
artist_io	popularity	name	id	explicit	duration_ms	album_id
00S0NZnK7TGIAWx8M	75	Excuses	29m79w9xPMH4YCD6r	false	176232	3GkXRRRkV3rfgwG1w
00S0NZnK7TGIAWx8M	72	Toxic	4faDlXyZMSxEuxBdd	false	184102	12UWGJjni8Mz24bGQ
00S0NZnK7TGIAWx8M	69	Illegal Weapon 2	5fXslGZPI5Cco6PKH	false	188606	7LwW8qe6sND4ySnKm
00S0NZnK7TGIAWx8M	67	Punjabi Mashup	79blzUG11a6vtTL3N	false	306572	2UEWjApikRpHOdFlz
00S0NZnK7TGIAWx8M	66	High Rated Gabru	2HyMuSCZJIxgnZBku	false	4676057	3yd4VQeZysHsK5TBx
00S0NZnK7TGIAWx8M	64	Umbrella	7fBeejW1BoZFTd4hT	false	193398	3S3ekcemSjVZ6Pi3o
00S0NZnK7TGIAWx8M	59	Punjabi Party Mashup	2uClyP3ljxxp7CLbG	false	224209	04h2mUgHLBRDSSdim
00S0NZnK7TGIAWx8M	53	Holi Party Mix	1dNdTTyT5hVBah1VA	false	213320	3y6rsAj2sdhKgrL8M
00S0NZnK7TGIAWx8M	48	Naina De Thekay	4eHbe3yR5unRMZ8EC	false	240512	5u3EgVr8smBWV9NQw
00S0NZnK7TGIAWx8M	46	Chrome Hearts	65RJHVcaIYpDDRbOP	false	169932	5eDASWI7PB20BVjXh
5rQoBDKFnd1n6Bkdb	71	Valentine's Mashu	1MhHomaXgrPMBroXk	false	212521	3tfC6dfNO9vi0LL1M
5rQoBDKFnd1n6Bkdb	68	Naach Meri Rani	1orM67pmkNc4alrZk	false	212692	5bimKHx8YBRQBsoph
5rQoBDKFnd1n6Bkdb	67	52 Non Stop Dilba	1FSYDJAlyHAabWhiG	false	4581482	71Z0GMHUBwc1dWAHk
5rQoBDKFnd1n6Bkdb	67	Punjabi Mashup	79blzUG11a6vtTL3N	false	306572	2UEWjApikRpHOdFlZ
5rQoBDKFnd1n6Bkdb	67	Lagdi Lahore Di (5ZQnQnbUVtBO0pl3S	false	215368	0FVTEsLSHEXGTyaQ4
5rQoBDKFnd1n6Bkdb	66	High Rated Gabru	2HyMuSCZJIxgnZBku	false	4676057	3yd4VQeZysHsK5TBx
5rQoBDKFnd1n6Bkdb	66	Suit Suit	2mwBS058y92EYmEFp	false	190131	1zgKTUwG47DuycE93
5rQoBDKFnd1n6Bkdb	64	Valentine's Mashu	1jkNF7kVO0tzNiGXz	false	198380	4CoXAyGgEt2TjGLGe
5rQoBDKFnd1n6Bkdb	63	Baby Girl	OFoAlOXHI6KJ4RHP9	false	207493	4dob5W0fcOiKEe3ii
5rQoBDKFnd1n6Bkdb	58	Morni Banke (From	5x3K3Ld54TtkYKdQv	false	198025	6EDbwGsQNQRLf73c7

Apache NiFi



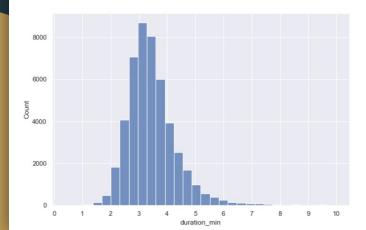
Apache NiFi





Analiza

track_name	artist_name	track_popularity
abcdefu	GAYLE	 99
All I Want for Christmas Is You	Mariah Carey	99
Enemy (with JID) - from the series Arcane League of Legends	JID	98
Enemy (with JID) - from the series Arcane League of Legends	Imagine Dragons	98
Woman	Doja Cat	97
good 4 u	Olivia Rodrigo	96
Shivers	Ed Sheeran	96
Do It To It	ACRAZE	96
Bad Habits	Ed Sheeran	96
All Too Well (10 Minute Version) (Taylor's Version) (From The Va	ult) Taylor Swift	96



genres	avg_pop
barbadian pop	90.0
british invasion	89.0
merseybeat	89.0
deep underground hip hop	88.0
new orleans rap	88.0
speedrun	87.0
pittsburgh rap	86.5
ohio hip hop	85.5
funk rock	84.0
old school thrash	84.0

genres	ount
pop	363
dance pop	291
latin	186
trap latino	186
pop rap	180
rap	177
funk carioca	161
tropical house	157
pop dance	144
trap	136

Search

Artists belonging to the same genres

place	artist_name	followers	artist_popularity	common_genres	
1	Bedoes	1172199	71	polish hip hop	
2	Taco Hemingway	1171636	70	polish hip hop	
3	Quebonafide	1136285	69	polish hip hop	
4	Mata	1019281	78	polish hip hop	
5	Paluch	819827	65	polish hip hop	
6	Żabson	773988	68	polish hip hop	
7	Tymek	763677	67	polish hip hop, polish alternative ra	
8	Reto	701653	67	polish hip hop	
9	Malik Montana	682939	71	polish hip hop	
10	TACONAFIDE	667748	57	polish hip hop	
18	Białas	407228	69	polish hip hop	
19	PRO8L3M	374675	65	polish hip hop, polish alternative rap	
20	Guzior	336644	64	polish hip hop	

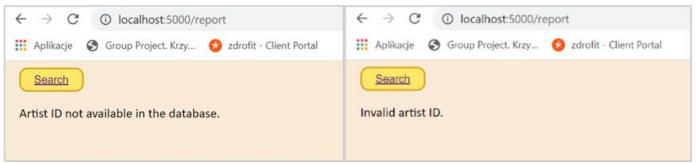
Top 10 tracks

	track_name	track_popularity	duration	explicit	album_name
0	Ground Zero	64	02:58	False	Ground Zero
1	Skrable	61	04:03	False	Art Brut 2
2	Freon	58	03:51	True	Fight Club
3	GeForce	57	03:32	True	Fight Club
4	Interpol	57	03:17	False	WIDMO
5	Napad na bankiet	57	04:47	True	Wojtek Sokół
6	Ritz Carlton - Remix	55	02:51	True	Fight Club LTD
7	Flary	55	03:31	False	Ground Zero Mixtape
8	Przebój nocy	55	03:59	False	Art Brut 2
9	Molly	55	04:11	False	PRO8L3M

Albums

	album_name	release_date	total_tracks	album_type
0	Cock.0z Mixtape	2021-08-26	24	album
1	Szafa	2021-05-09	1	single
2	Fight Club LTD	2021-04-30	18	album
3	Fight Club	2021-03-30	14	album
4	A2	2021-03-29	1	single
5	V	2021-02-22	1	single
6	Żar	2021-01-13	1	single
7	Backstage	2020-11-23	1	single
8	Strange Days	2020-10-14	1	single
9	Art Brut 2	2020-03-07	16	album
10	Przebój nocy	2020-03-05	1	single
11	W domach z betonu	2020-03-02	1	single
12	Koło fortuny	2020-02-19	1	single
13	Skrable	2020-01-28	1	single
14	Widmo (Instrumentals)	2019-12-24	13	album
15	Re: Małomiasteczkowy	2019-11-29	18	album





Dziękujemy za uwagę

Agata Makarewicz & Jacek Wiśniewski