IES Project - Trendit

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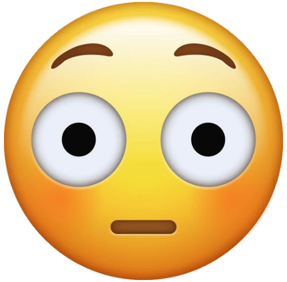
The team



Vicente Samuel - Architect

Filipe Gonçalves - Team Manager

Pedro Lopes -DevOps Manager

João Borges - Product Owner

The concept - A filtered twitter

- A bot which acquires information from twitter according to the interests of the user
- Possibility of creating an account where the user can set interests, so that the main page only presents the respective points of interest
- It can filter tweets around a topic or a location
- Shows statistics about certain topic, such as popularity, amount of tweets done in a period of time, etc

User Stories - Anabela

An outgoing person, extremely interested in fashion, but with little time to spend

1. Creates an account to cope up with the latest trends
2. While creating the project, puts the topic “fashion” as topics of interests
3. She can search for different topics out of the ones in her main page
4. She can search what is trending on fashion in another location, like australia

User Stories - Joshua Jo

A leader, free spirit person; leads a company to help children

1. Creates an account for enterprise use, so that he can cope up with what is now popular and what would be the best choice of product to choose
2. Chooses the topics that his company has interest in
3. Can check the statistics of a trending topic, like the amount of tweets throughout time

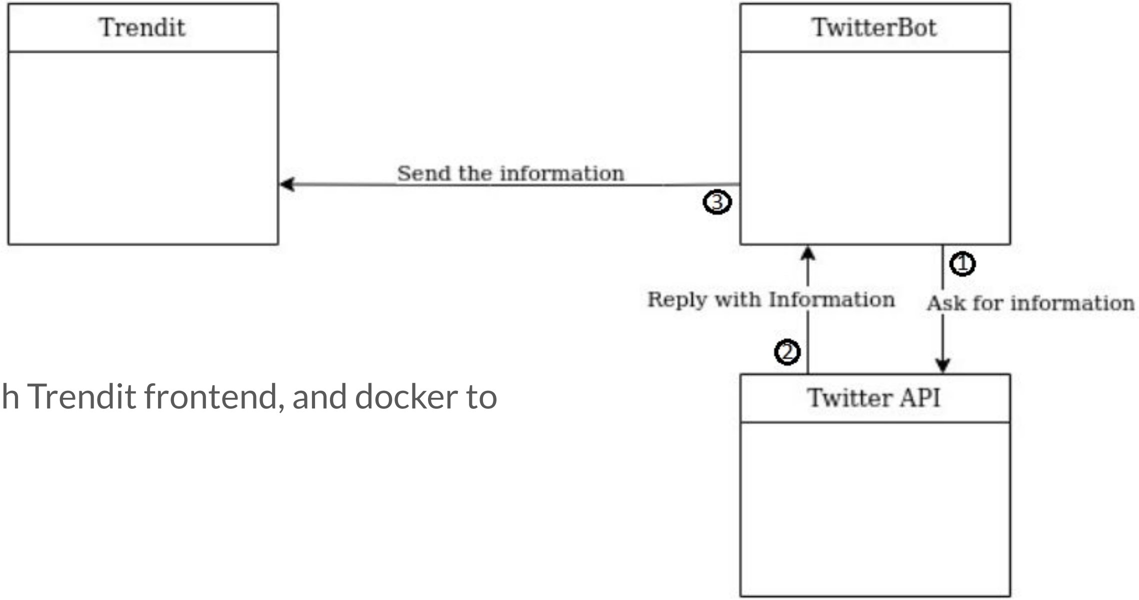
User Stories - Alonso Boda

A shy person, but interested in everything

1. To always have an interesting topic to talk with new people, alonso creates an account on TrendIt.
2. Alonso selects all the topics in the register page, so that he is updated with everything that is trending on the world.
3. He can also search what is trending on another countries other than his home country

Architecture

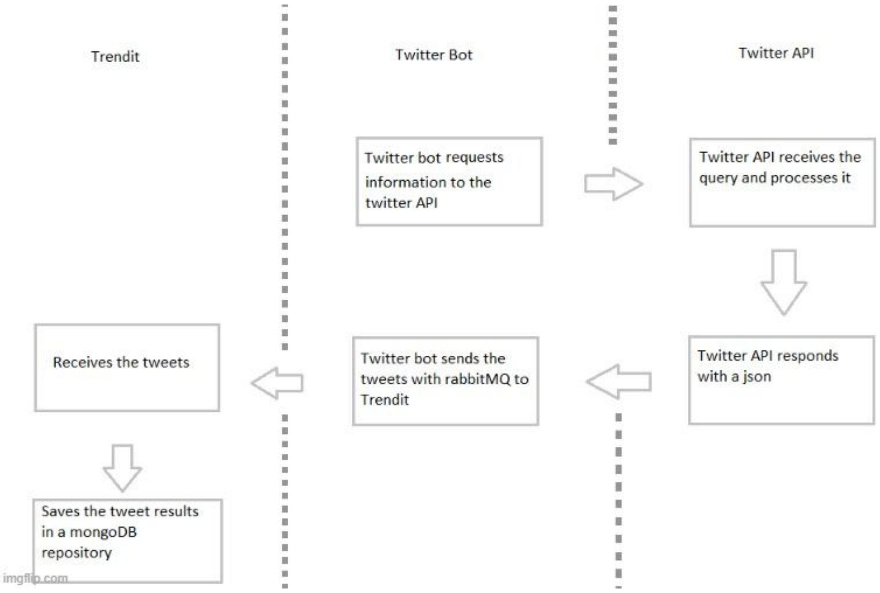
Our project uses Maven so it is easy to initialize our application, and also used MongoDB to store our data.



We also use RabbitMQ to communicate with Trendit frontend, and docker to containerize every service.

Backend - Twitter Bot & Twitter API

- Twitter Bot - Sends curl requests to the Twitter API
- TwitterAPI - responds with tweets in json format, which will later be converted to java objects with the help of retrofit
- RabbitMQ- Sends the tweets to the Trendit frontend



Trendit
Twitter Bot
Twitter API
Twitter bot requests information to the twitter API
Twitter API receives the query and processes it
Twitter API responds with a json
Twitter bot sends the tweets with rabbitMQ to Trendit
Receives the tweets
Saves the tweet results in a mongoDB repository
imgflip.com

Database

Made in mongoDB, saves the tweets searched with a certain query to show in the interface

It also saves trends and a tweet counter for each trend, as well as all the data from each user

We can manipulate the database by using the CRUD methods in the REST Controller on the main application: /TrendIt/all_users will post all the users, /TrendIt/all_tweets will post all the tweets, etc.

Containers

We used docker to containerize mongodb and rabbitmq services, and also to containerize the front end and the back end.

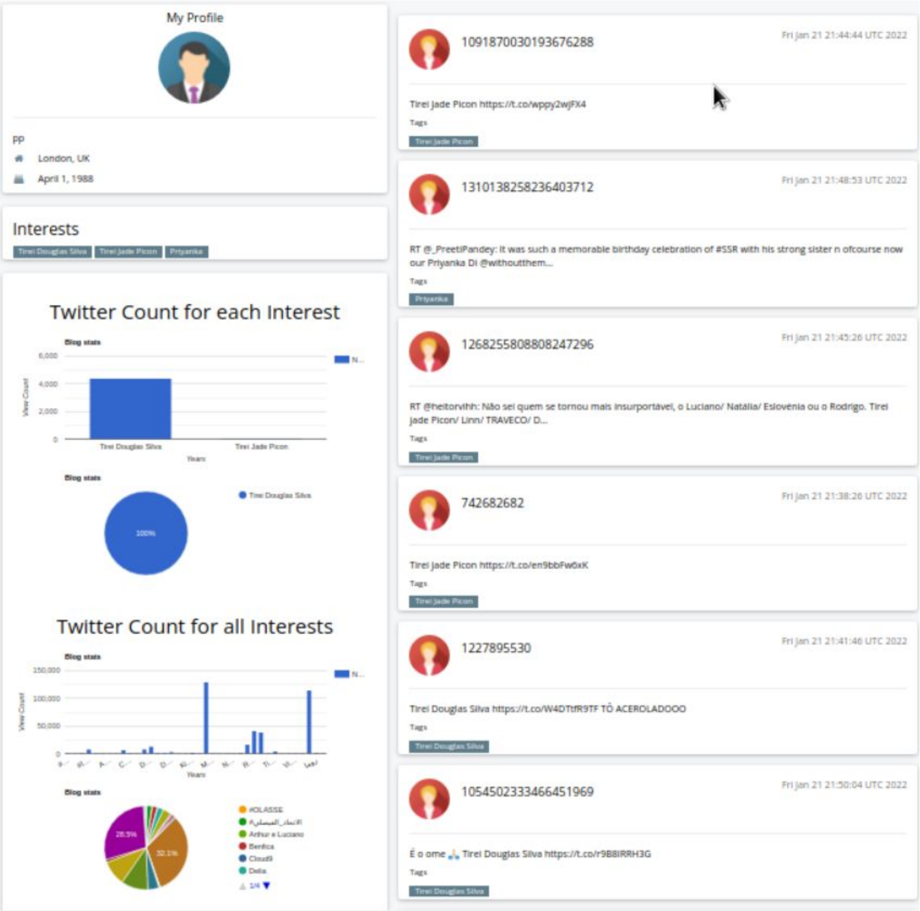
It is crucial to have the docker services so that our product works everytime and everywhere, without it there would be a huge amount of time and effort spent in vain.

RabbitMQ

The RabbitMQ is a message broker who serves the purpose of establishing communication between the Trendit and the twitter bot. The twitter API will send the response data in json format; the twitter bot will receive it and proceed to send it with the rabbitMQ service.

Frontend - Trendit

- Database - Contains all users and tweets, done in mongoDB
- REST and View Controllers - Allow access to the database to obtain the tweet
- Statistical data on the left, and filtered tweets on the right



My Profile

PP

London, UK

April 1, 1988

Interests

Tirei Douglas Silva | Tirei Jade Picon | Priyanka

Twitter Count for each Interest

Twitter Count for all Interests

1091870030193676288 — Fri Jan 21 21:44:44 UTC 2022

Tirei Jade Picon https://t.co/wppy2wjFX4

Tags

Tirei Jade Picon

1310138258236403712 — Fri Jan 21 21:48:53 UTC 2022

RT @_PreetiPandey: It was such a memorable birthday celebration of #SSR with his strong sister n ofcourse now our Priyanka Di @withoutthem...

Tags

Priyanka

1268255808808247296 — Fri Jan 21 21:45:26 UTC 2022

RT @heitorvihh: Não sei quem se tornou mais insurportável, o Luciano/ Natália/ Eslovênia ou o Rodrigo. Tirei Jade Picon/ Linn/ TRAVECO/ D...

Tags

Tirei Jade Picon

742682682 — Fri Jan 21 21:38:26 UTC 2022

Tirei Jade Picon https://t.co/en9bbFw6xK

Tags

Tirei Jade Picon

1227895530 — Fri Jan 21 21:41:46 UTC 2022

Tirei Douglas Silva https://t.co/W4DTtfR9TF TÔ ACEROLADOOO

Tags

Tirei Douglas Silva

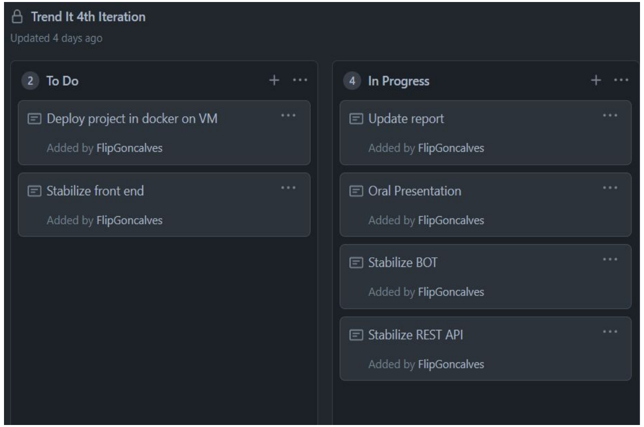
1054502333466451969 — Fri Jan 21 21:50:04 UTC 2022

É o ome 🙏 Tirei Douglas Silva https://t.co/r9B8IRRH3G

Tags

Tirei Douglas Silva

Github Organization



Trend It 4th Iteration
Updated 4 days ago

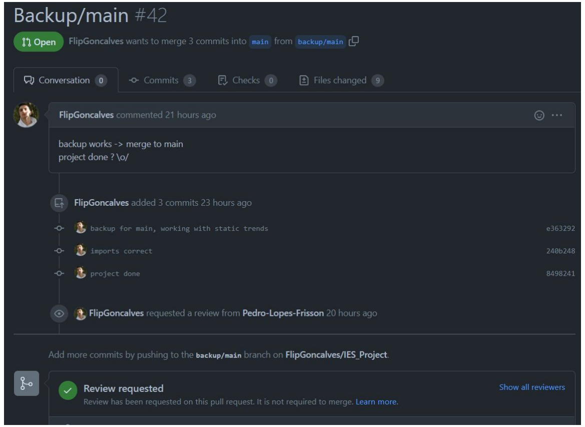
2 To Do

- Deploy project in docker on VM
  Added by FlipGoncalves
- Stabilize front end
  Added by FlipGoncalves

4 In Progress

- Update report
  Added by FlipGoncalves
- Oral Presentation
  Added by FlipGoncalves
- Stabilize BOT
  Added by FlipGoncalves
- Stabilize REST API
  Added by FlipGoncalves

Scrum Board



Backup/main #42

Open FlipGoncalves wants to merge 3 commits into `main` from `backup/main`

FlipGoncalves commented 21 hours ago

backup works -> merge to main
project done ? \o/

FlipGoncalves added 3 commits 23 hours ago

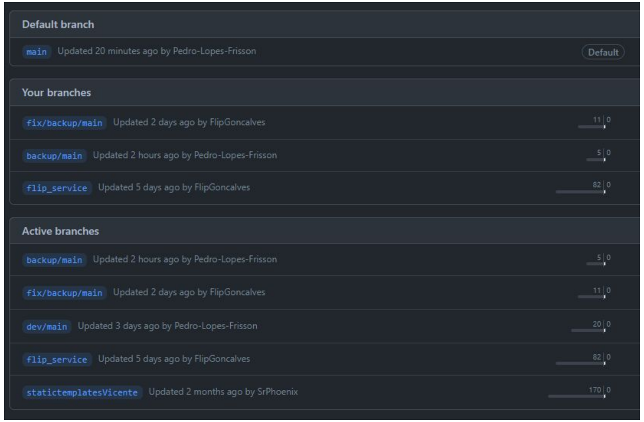
```
backup for main, working with static trends    e363292
imports correct                                240b248
project done                                   8498241
```

FlipGoncalves requested a review from Pedro-Lopes-Frisson 20 hours ago

Add more commits by pushing to the `backup/main` branch on FlipGoncalves/IES_Project.

Review requested
Review has been requested on this pull request. It is not required to merge. Learn more.

Pull Requests, approved by all team



Default branch

`main`	Updated 20 minutes ago by Pedro-Lopes-Frisson		Default

Your branches

`fix/backup/main`	Updated 2 days ago by FlipGoncalves	11	0
`backup/main`	Updated 2 hours ago by Pedro-Lopes-Frisson	5	0
`flip_service`	Updated 5 days ago by FlipGoncalves	82	0

Active branches

`backup/main`	Updated 2 hours ago by Pedro-Lopes-Frisson	5	0
`fix/backup/main`	Updated 2 days ago by FlipGoncalves	11	0
`dev/main`	Updated 3 days ago by Pedro-Lopes-Frisson	20	0
`flip_service`	Updated 5 days ago by FlipGoncalves	82	0
`statictemplatesVicente`	Updated 2 months ago by SrPhoenix	170	0

And of course, branches!!

Future Implementations

- Possibility of searching topics
- Better graphs and charts for statistical purposes
- Interest selection inside the home page
- Account settings, so the user can update his stats
- A way to update user trends
- Favourite section for tweets and trends, so the user can save important data

Demo