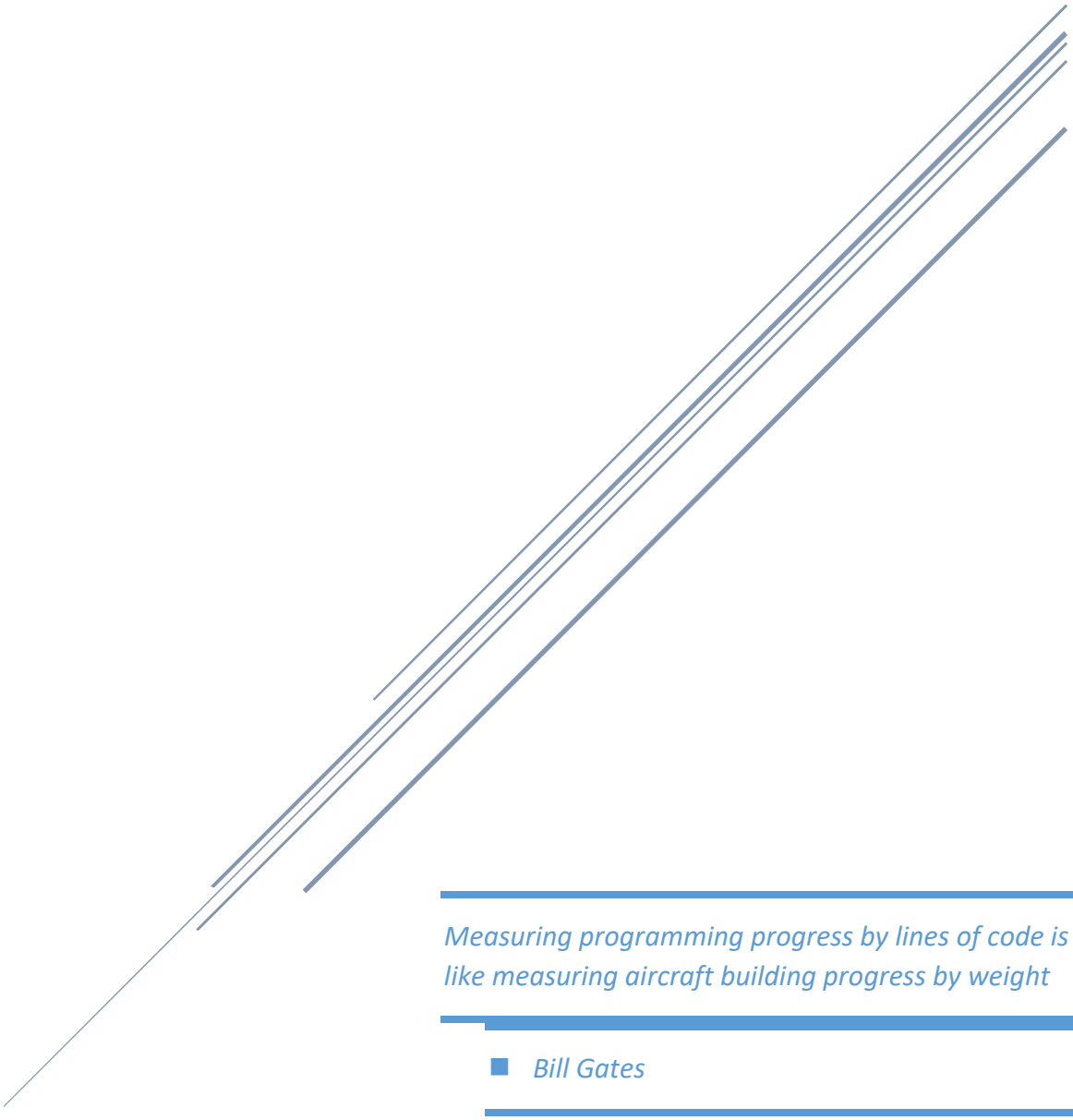
TECHNICAL TASK

Zappy – The Pain Killer



Measuring programming progress by lines of code is like measuring aircraft building progress by weight

- *Bill Gates*

Task Overview

FictionFone is a multinational telecommunication company, with head quarters in Egypt. It predominates the middle east region with a customer base of 250 million subscribers.

Recently, FictionFone corporation purchased a social media analytics tool that performs sentiment analysis on the posts and tweets of subscribers from Twitter and Facebook account. The analytics tool is great, but requires the tweets/posts to be fed manually, which is frustrating to the marketing team.

The technical team has taken the ownership to develop a tool to solve this problem. Keeping in mind, the marketing team are non-technical users, and they use Slack heavily for internal communication, they came up with the following plan.

Zappy

Zappy is the name of the tool that you're required to develop. Zappy integrates with a Slack channel and listens on specific messages. For simplicity, we the tool will listen on all messages containing the word "go". As soon as any member of the marketing team, places a messages on a channel containing the message "go", the tool fetches twitter feeds from the FictionFone account and saves in a mongo collection. Lastly, for our demo purpose, you will create a view that fetches tweets from mongoDB and shows in a table. *Diagram below visualizes the process.*

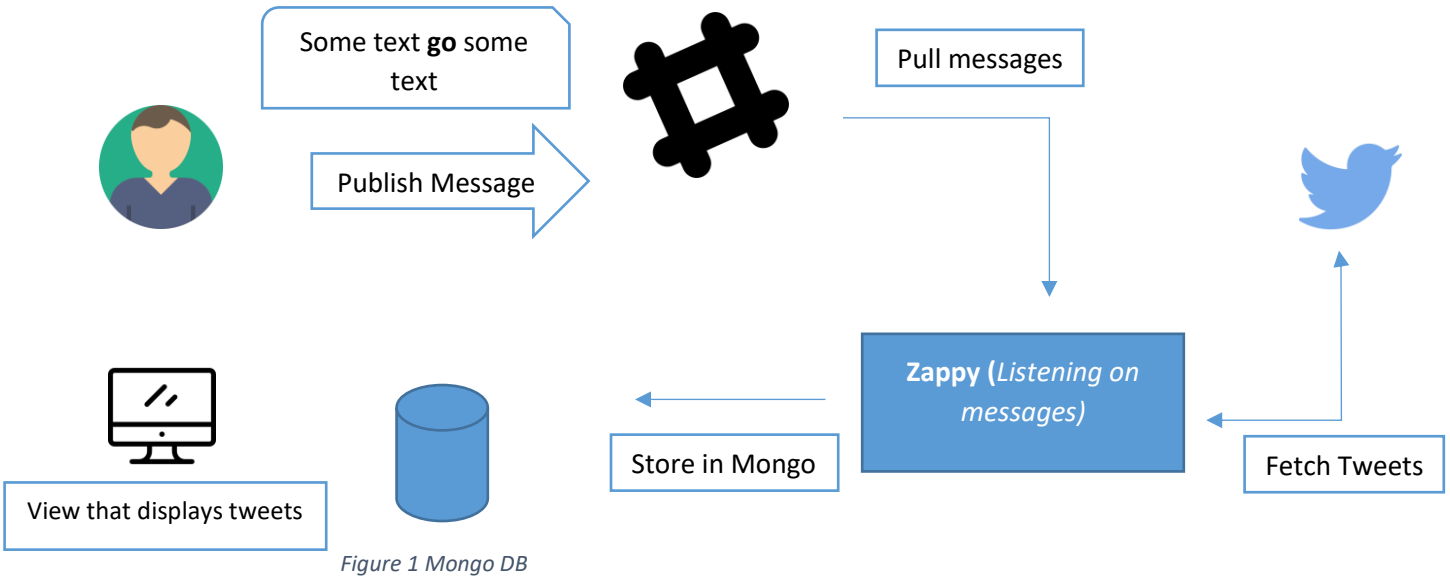


Figure 1 Mongo DB

> *They did not know it was impossible, so they did it!*
>
> — *Mark Twain*

Task Guidelines

1) You will be creating a Slack and Twitter account for demo purpose.
2) NodeJS will be used for the server side logic.
3) The code must have well written unit tests. *See Chai and Mocha for writing uniting tests for Node.*
4) Use NodeJS express framework for developing the API
5) The frontend application that will be displaying tweets should be developed using Angular 4.
6) Upload your code on a public git repository with a clear Readme.md, which explains clearly how to run the project.
7) Create a DockerFile to containerize your application.

Bonus

1) Listening on slack channel for message to fetch tweets from twitte.
2) Dockerizing the code.

Conclusion

Best of luck! Impress us with your choice of design for the UI, and shows us your passion for Software development.

> *Talk is cheap, show me the code!*
>
> — *Linus Torvalds*

References

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[3] "Angular 4 Tutorial," Angular, [Online]. Available: https://angular.io/tutorial.

[4] "Chai and Mocha Examples," [Online]. Available: http://mherman.org/blog/2015/09/10/testing-node-js-with-mocha-and-chai/#.WhKe80qWZPY.

[5] "Node Express Documentation," [Online]. Available: https://www.expressjs.com/.

[6] "Mongoose Tutorial," [Online]. Available: https://www.youtube.com/watch?v=5e1NEdfs4is.

You are bound to be unhappy if you optimize everything

- *Donald E Knuth*