

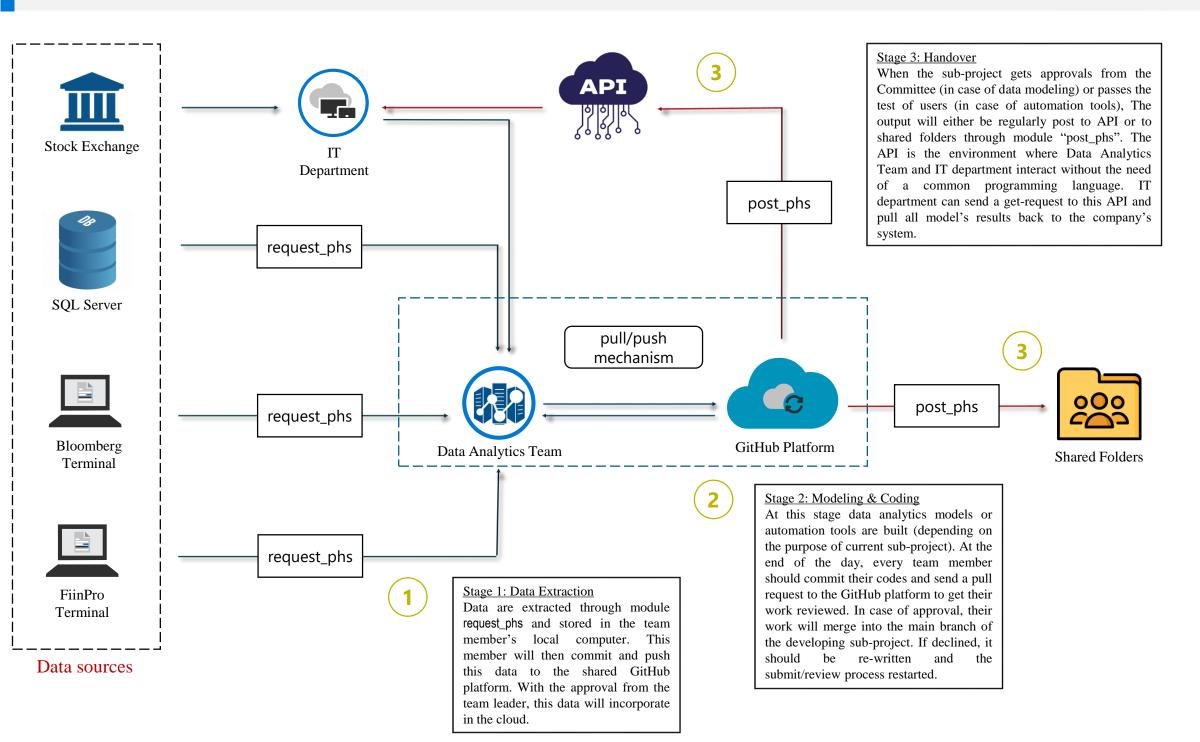
Data Analytics Team

Operational Framework

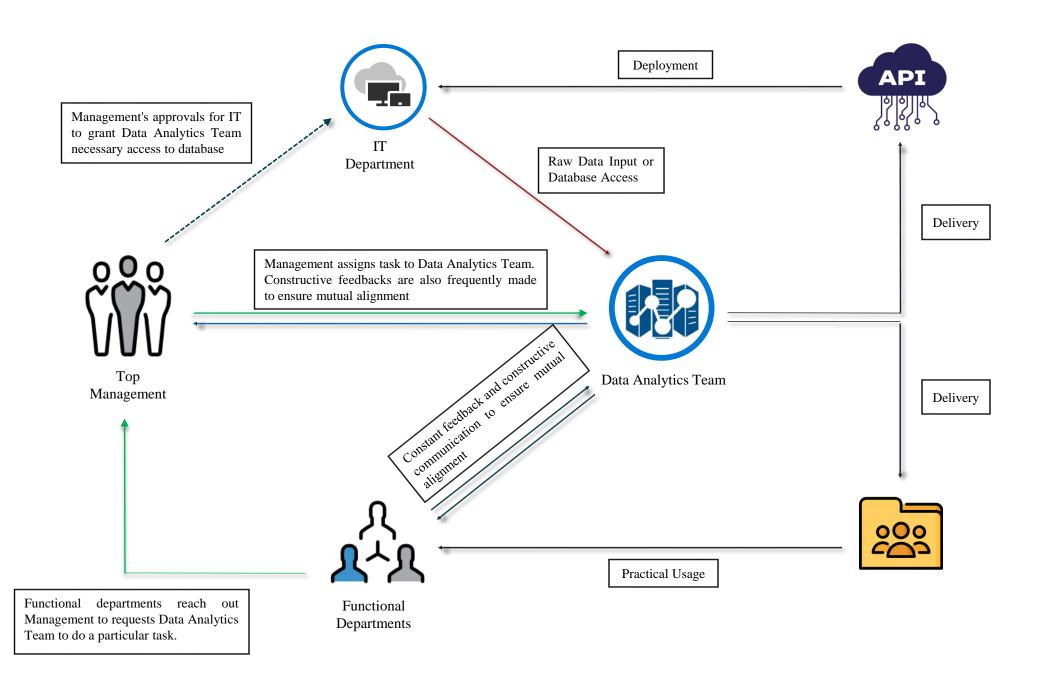
We design a operational framework that describes:

- The team's workflow
- How the team cooperates with other departments
- The way we manage internally
- How we protect ourselves from data leak

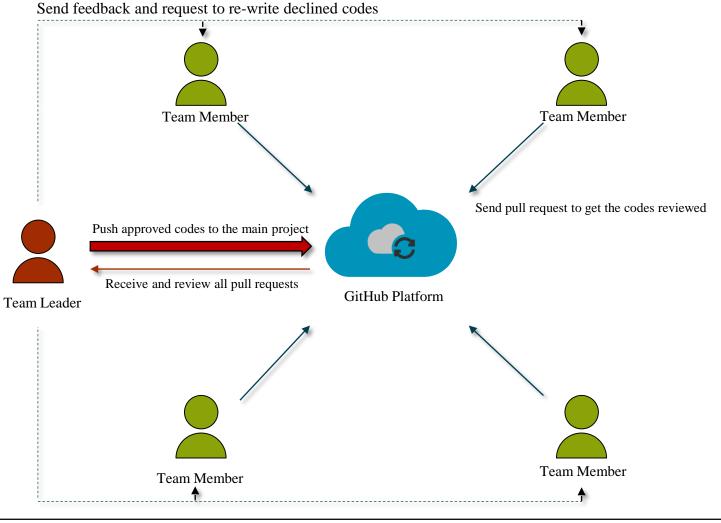
Workflow



The way our team cooperates with other departments



The way our team managed internally



'master' branch

Create 'feature' branch from 'master'

Merge 'feature' branch into 'master'

Commit changes Submit Pull Request Discuss proposed changes

There is always <u>a single version</u> of project maintained in platform.

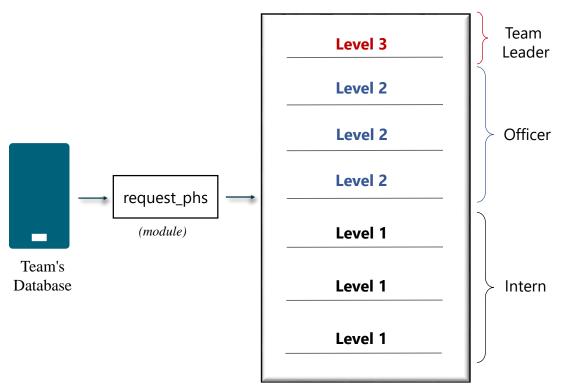
At the beginning of the day, each team member should send a request directly to the platform to clone the latest version of project to their local computers.

During the day, they write their code locally as usual.

At the end of the day, they are required to submit their codes by sending a pull request to the platform. The platform will notify the team leader about this submission and display a comparison between the latest version and the newly-written codes.

If the code is approved by the team leader, it will be incorporate to platform and becomes the latest version. If it's declined, it will be sent back the submitter to re-write, and the submit/review process restarts.

How we protect ourselves from data leak but ensure efficiency



Authorization Table

| Authorization lable | | | | | |
|---------------------|------------|--|---|---|------------------------------------|
| | USB Portal | Web Browsing | Email | Server Username | Base |
| | (1) | (2) | (3) | (4) | (5) |
| Level 1 | Prohibited | Allowspecified websites only | Prohibited | Dynamic (expire at 5:00PM everyday) | Prohibited |
| Level 2 | Prohibited | Allowspecified websites only | All internal emails with attachment will cc to TeamLeader & Head of RMD automatically. Sending emails to external address is completely blocked | Dynamic (expire at 9:00PM everyday) | Permit access via intranet only |
| Level 3 | Prohibited | All websites excepts drives, messenger apps, personal emails | Fully permitted | Full-time Access (permanent account) | Fully permitted |

- (1) Staff of all levels are prohibited from using USB and external hard-drives.
- (2) Interns and officers are only permitted to certain approved websites that directly support their work (Team Leader shall prepare a list of these websites). Team Leader is permitted to access to most websites for necessary reference. However, all kinds of social media, data drives, messaging platforms, personal emails are prohibited from staff of all levels.
- (3) Interns are not registered for a company email, they are not able to send/receive emails during their entire internship. Officers have Outlook email but anytime they send out attachment to internal email addresses, that email will cc to Team Leader & Head of RMD immediately. They are blocked from sending emails to external addresses. Team Leader has full use of email to ensure the team's communication with other departments.
- (4) Every team members are provided an SQL Server username to extract the data. However
 the password of intern's accounts and officer's accounts expire at 5:00PM and 9:00PM
 everyday, respectively. This mechanism is to ensure that they will not be able to access to the
 database out of work without supervision of the Team Leader. Team Leader has full-time
 access to the database to conduct heavy analysis that might be left running over-night.
- (5) Interns have no Base accounts. Officers do have Base account but only permitted to login via company's intranet, which means they cannot use Base out of the office. This mechanism is to ensure that they cannot upload files to Base apps and download those files later from personal devices. Team Leader is fully permitted to use Base.



THANK YOU

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