



/Kelly's Colleagues

Cao Qingtian
Huang Jingfang
Leon Gurtler
Lin Jacky
Kelly Wong





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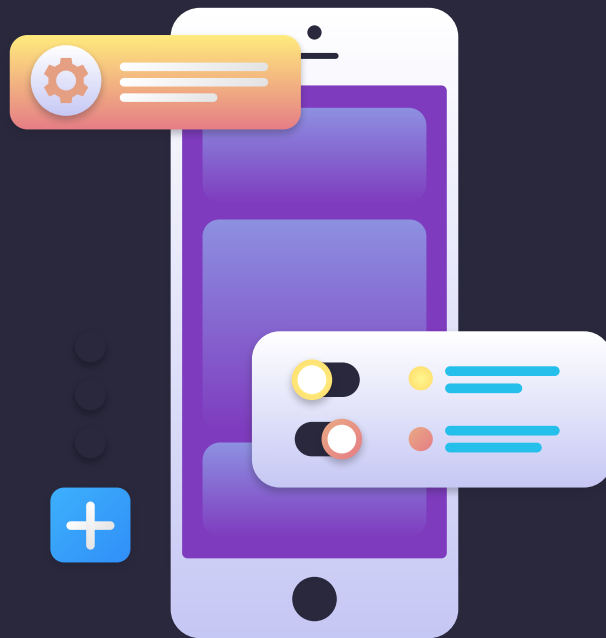
> Practices.

> Use cases, class diagrams, etc.



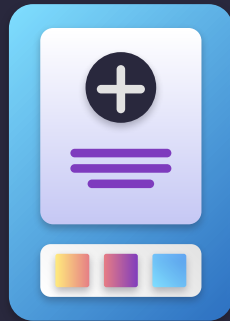
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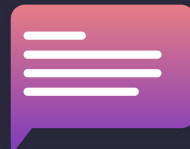
/MOTIVATION





**< How to make
more money? >**





**< Data & Information is the
oil of the 21st century >**





/Problems with collecting the right data & gaining good insights

- > Costly.
- > Time intensive.
- > Too slow.





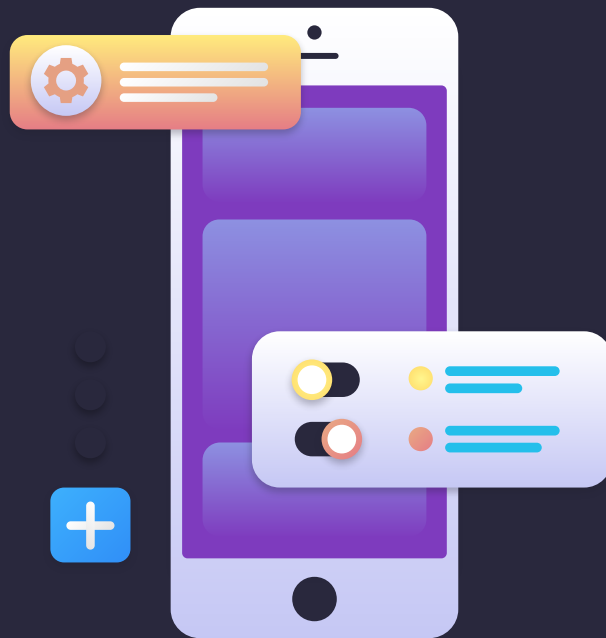
/The Holy Grail(s) of Data Collection & Analysis

- Cheap
- In real time
- Actionable insights



/02

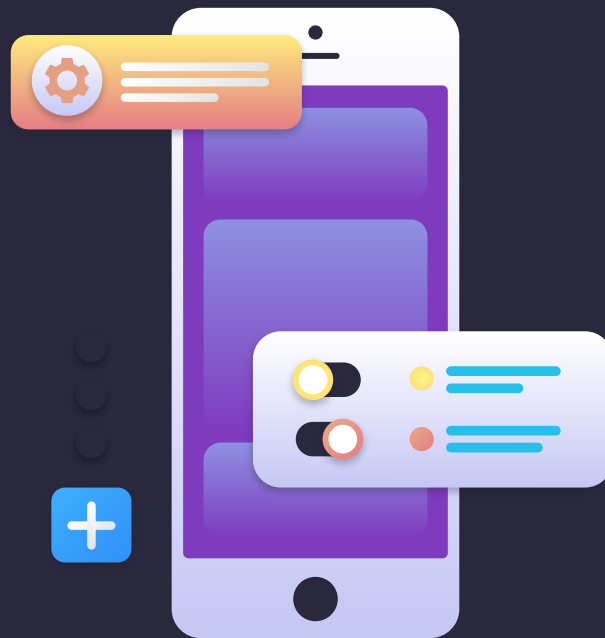
/DEMO



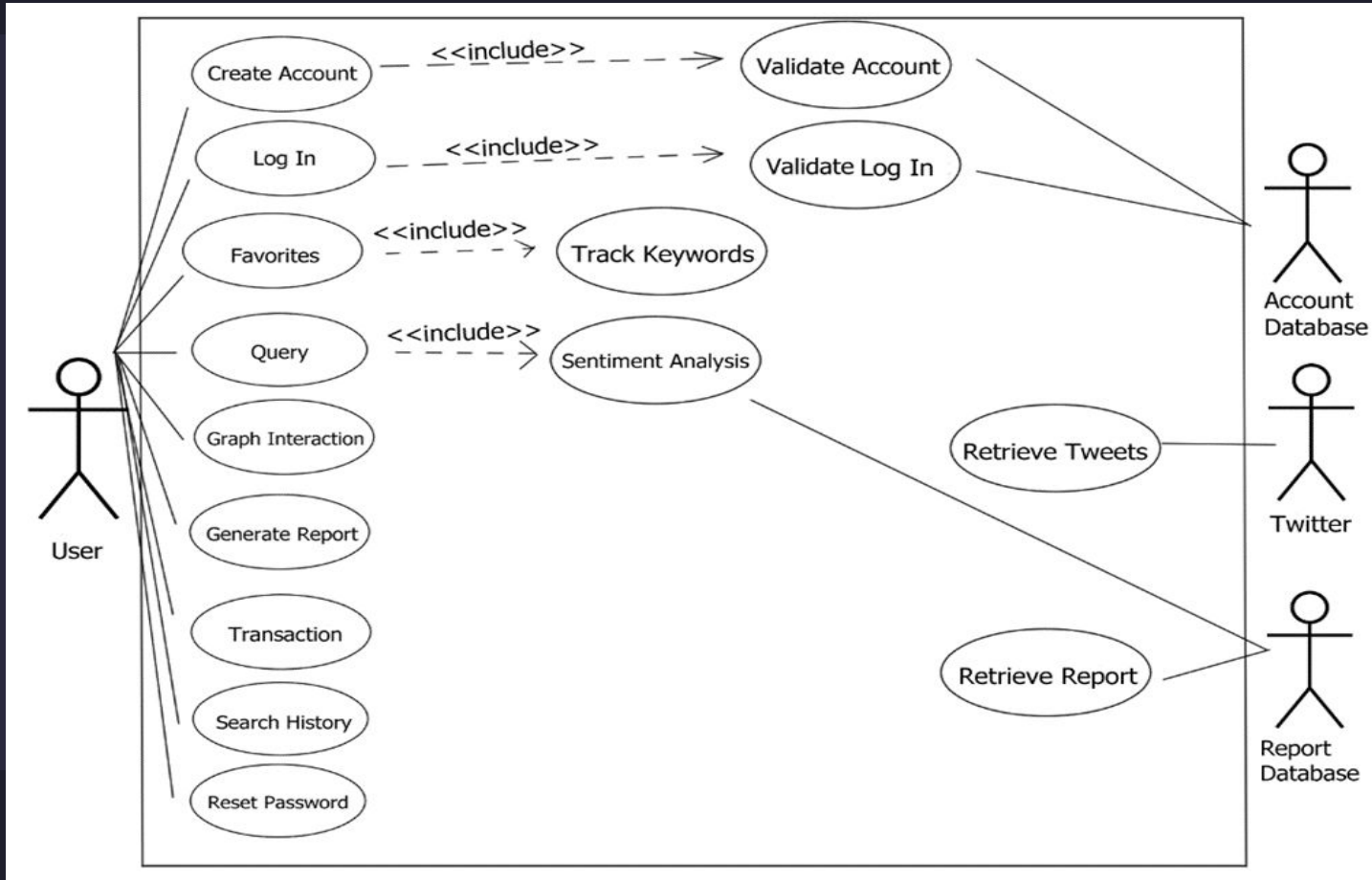


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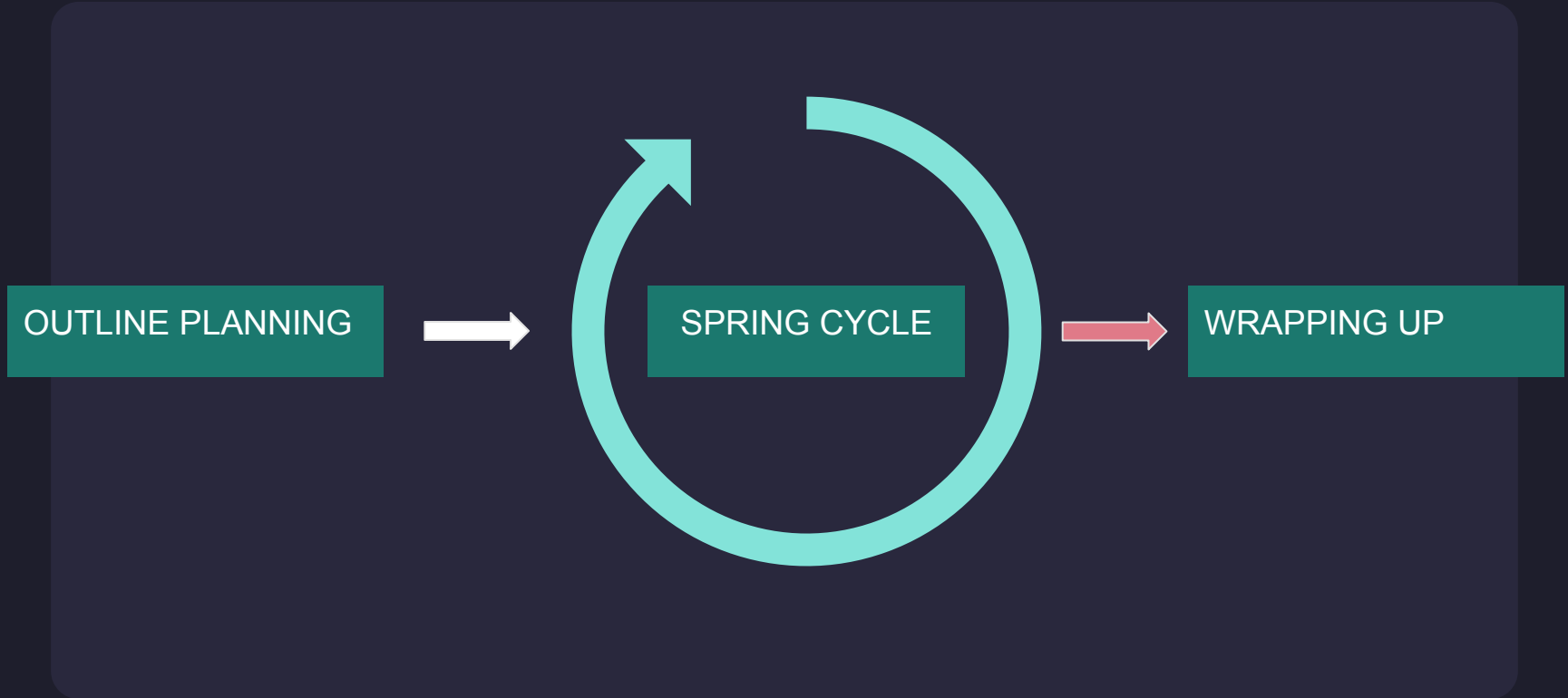
/SOFTWARE ENGINEERING PRACTICES



USE CASE DIAGRAM

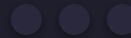


PROCESS MODEL





DESIGN PRINCIPLES



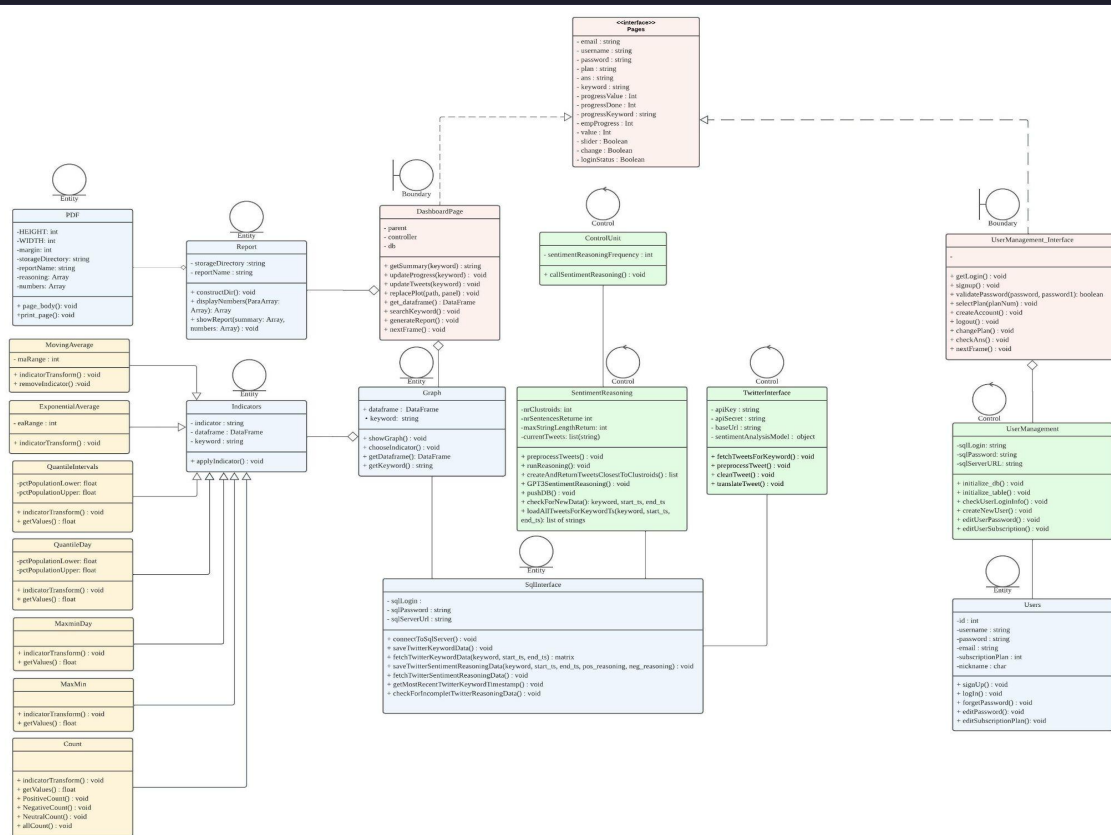
**/Single-Responsibility
Principle**



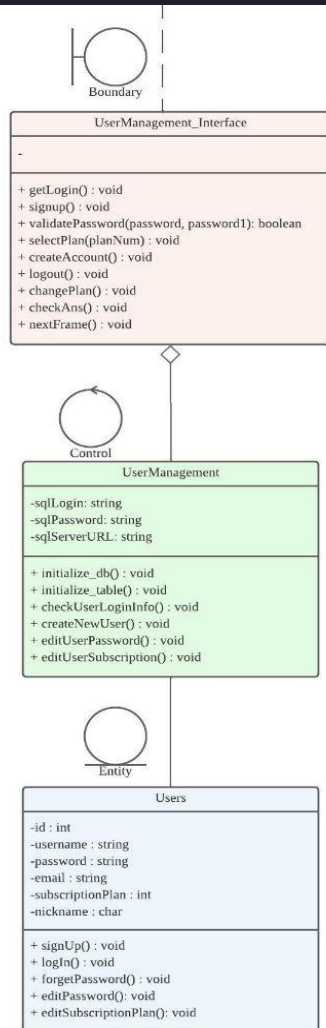
/Open-Closed Principle

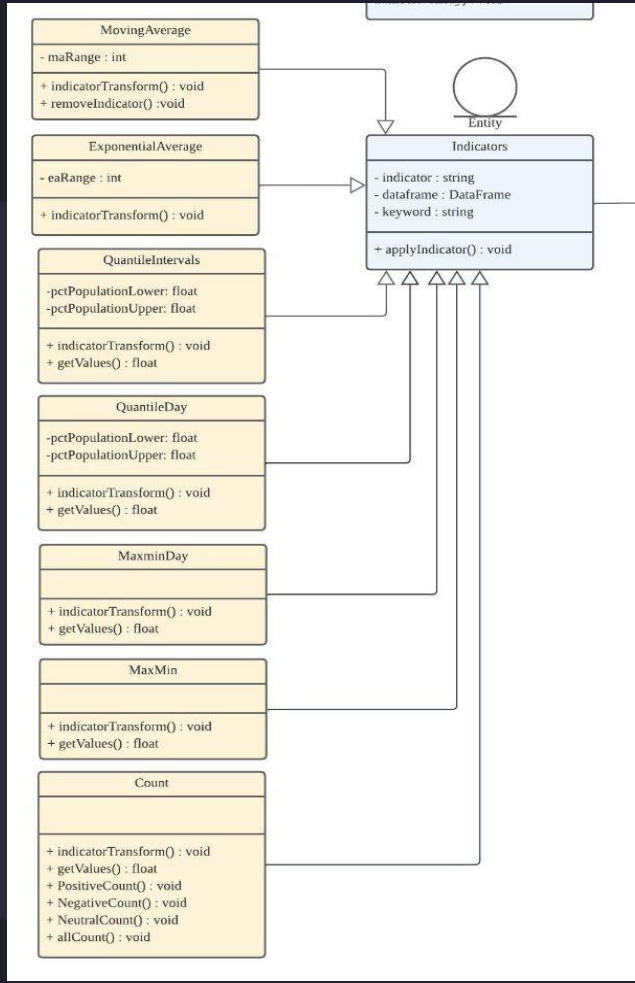


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Single-Responsibility Principle





Open-Closed Principle



FUNCTIONAL VS NON FUNCTIONAL



/Able to fetch tweets
/Able to run sentiment analysis
/Generate summary
/Generate report
/Log In
/Sign In
/Choose plans

/Security
/Maintainability



Design Pattern - Layered architecture

System Architecture

Presentation (Interface layer)



App Logic (Application layer)



Persistent Data (Database and API)





Design Pattern - Data Centered



**/Database
Architecture**



**/Prevent SQL
Injection Attack**



/Centralized server





Design Pattern - Observer Pattern



Observer

Observer

Observer

Observer



Subject

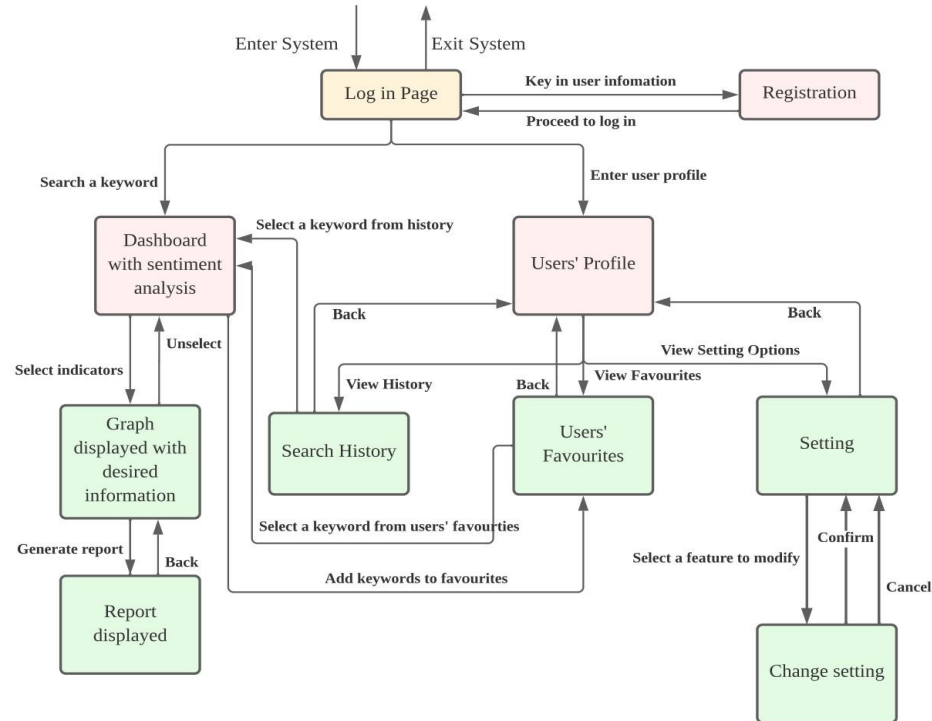


Dialog Map



Dialog Map

DSS3_Kelly's Colleagues



Testing

Choose Indicators

Scenario	Expected Result
The user press on Indicator button to choose the indicator to be shown on plot	The correct indicator is generated and shown on the main plot

Add to Favorite

Scenario	Expected Result
The user choose one keyword to add into their favorite keywords.	The keyword will be added to the users_info database

Generate Report

Scenario	Expected Result	Actual Result
The user chooses to generate a report based on the current selected indicators.	A pdf report will be generated and downloaded	A pdf report is generated and downloaded

Sign Up

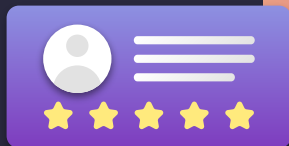
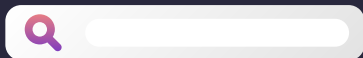
Scenario	Expected Result	Actual Result
User does not have an existing account and sign up with correct information	Sign up successfully User information is stored	Sign up successfully User information is stored
User enters different passwords for password and confirm password field		
User already has an existing account but try to sign up the same username		
User did not fill in all the required field		

Edit Password

Scenario	Expected Result	Actual Result
User edit password with correct information	Edit password successfully.	Edit password successfully.
User key in a wrong password	Please check your password.	Please check your password.
User did not fill in all the required field	Please fill in all the required information!	Please fill in all the required information!

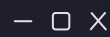
Forget Password

Scenario	Expected Result	Actual Result
User key in correct verification information(nickname)	Password is verified successfully.	Password is verified successfully.
User key in the incorrect verification information(nickname)	Please check your username and verification.	Please check your username and verification.
User did not fill in all the required field	Please fill in all the required information!	Please fill in all the required information!



**/Application in
Social-Ai**





/THANKS!

