

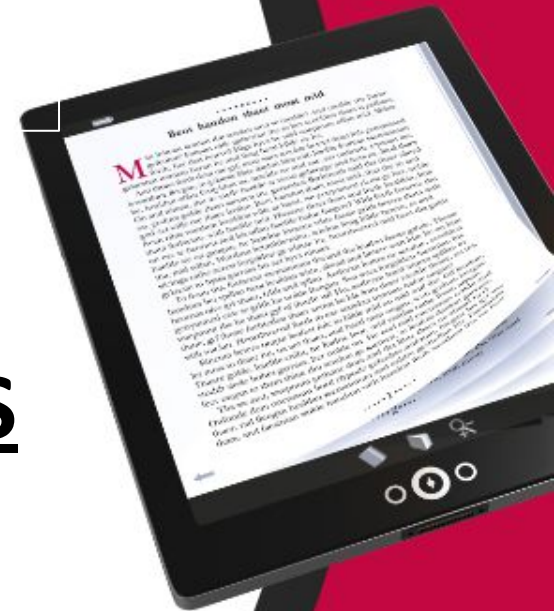
IBM HACK CHALLENGE

FRIEND AFFINITY FINDER

PROBLEM STATEMENT 1

BY

TEAM CODER COMMANDOS



TEAM SIZE : 3



ROHIT R



ASHRYA
AGRAWAL



UNMESH
ROY

ROLES OF MEMBERS

ROHIT : Back-end development in Flask , data collection using python wrappers for the respective REST API's of twitter , reddit , stackexchange and youtube , front-end development in making login and registration Pages.
EXPERTISE AREAS : Flask app development

ASHRYA : Integration of flask with node server, Addition of IBM Watson services, integration of frontend with Nodejs backend, models, routers, database, REST API endpoints, authentication, deployment using docker and docker-compose
EXPERTISE AREAS : Nodejs app development

UNMESH: Involved in the front-end development of the application, integration of the frontend with Node backend, routers and models and in finding a logical approach of calculating affinity and clustering.
EXPERTISE AREAS: Nodejs app development

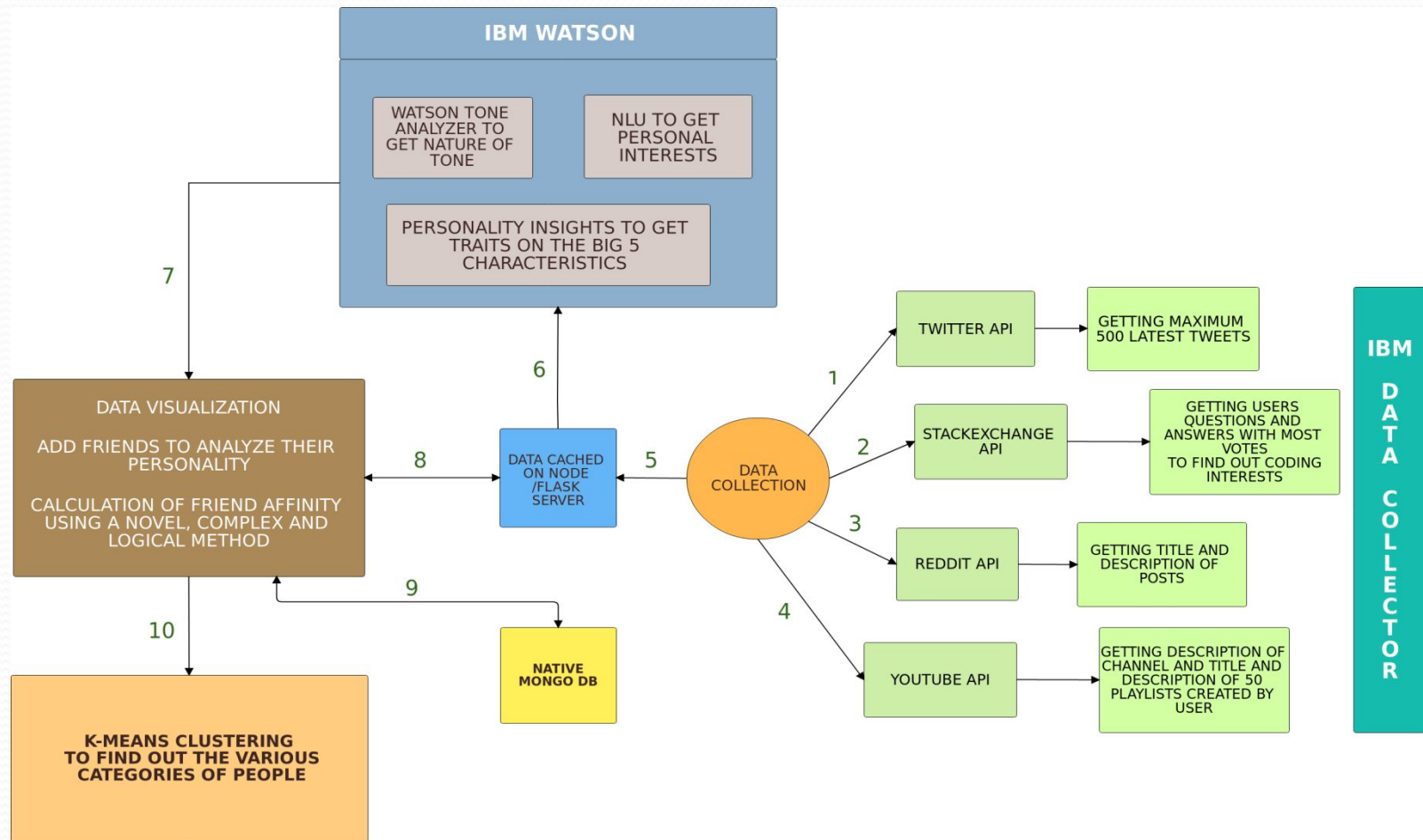
DATA-COLLECTION

- REST API's used :
 - Twitter : tweepy python wrapper to collect tweets
 - Reddit : Python Reddit API Wrapper (PRAW) to get submissions by user
 - Stackexchange : StackAPI python wrapper for stackexchange API to get users top questions and answers rated by votes
 - Youtube : youtube API to get description and content of playlists created by user

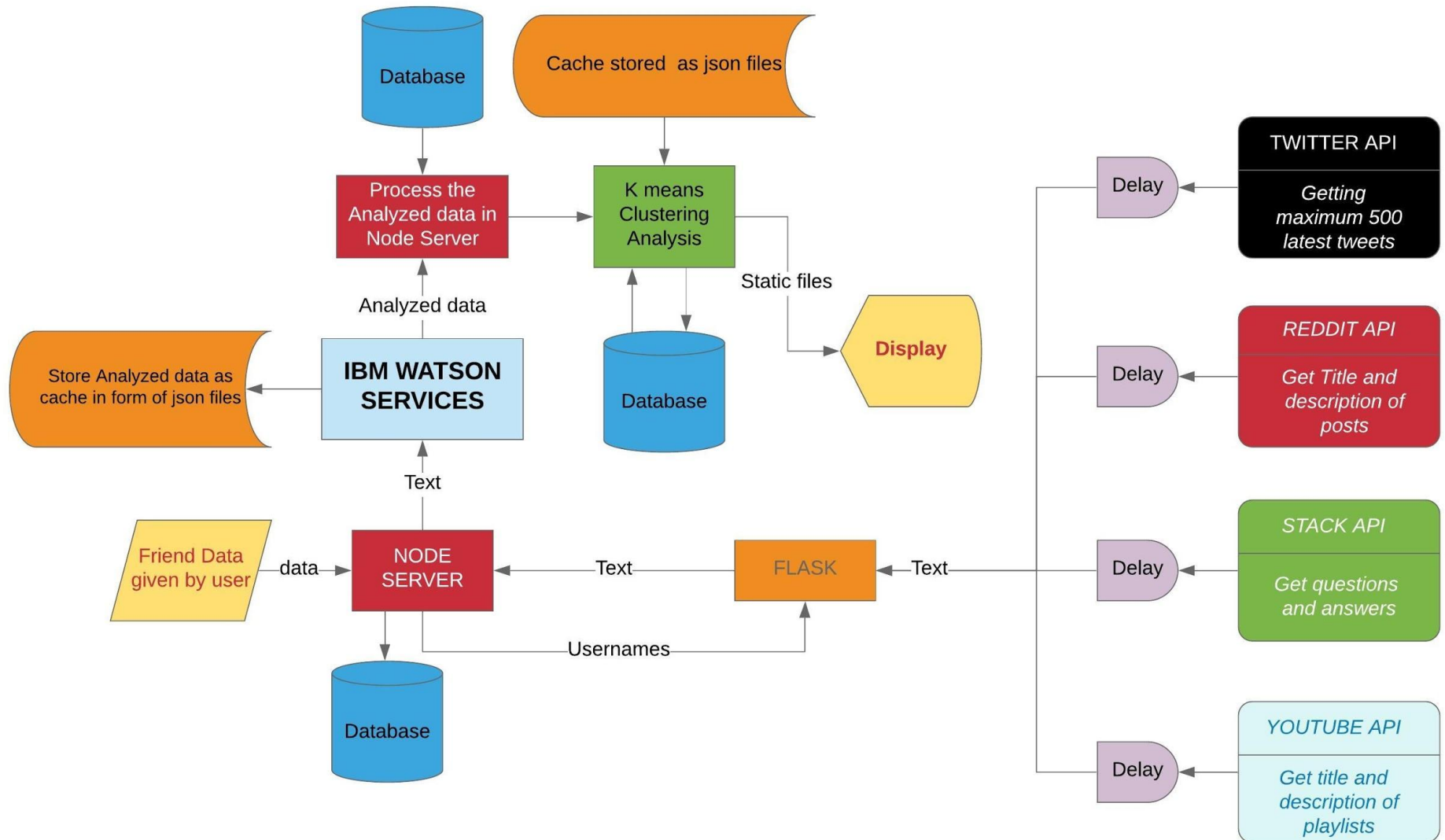
TECHNOLOGIES / PLATFORMS

- IBM TONE ANALYZER
- IBM PERSONALITY INSIGHTS
- IBM NATURAL LANGUAGE UNDERSTANDING
- DOCKER
- NODE JS
- FLASK
- GOOGLE CHARTS
- Node K-Means Clustering analysis
- GITHUB
- WEBSTORM and PYCHARM as IDE
- NATIVE MONGO DB
- TWITTER, YOUTUBE, STACK, REDDIT API

ARCHITECTURE



DATA-FLOW DIAGRAM



FRAMEWORKS FOR UI/UX

- BOOTSTRAP
- JQUERY
- GOOGLE CHARTS
- GOOGLE FONTS
- FONT AWESOME ICONS
- EMBEDDED JAVASCRIPT



Google
Developers
CHARTS

