

Twitgood

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Our goal:

Twitgood's goal is to provide Twitter users with meaningful, actionable metrics, by which they can adapt their posting behavior in order to enhance their social traction, and in turn, overall satisfaction with the Twitter platform.

Twitter Account Analyzer

- Create a sleek, easy-to-understand GUI that clearly conveys account information and statistics
- Create visual representations of data through charts and graphs
- Provide insight on how a user could improve their social traction

Frontend

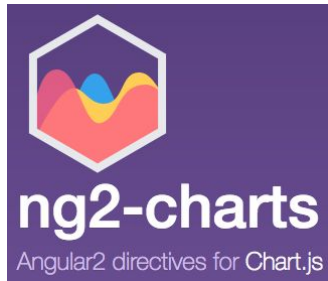
Technologies

Angular2: Merges markup with markup logic, makes building large sites simple

Bootstrap: Great framework for making aesthetically pleasing views

Ng2-loading-animate (by oxycoder): Provides the animation that runs during the create account POST request

Ng2-Charts (by Valor-Software): Used create charts populated with user data



Module Structure

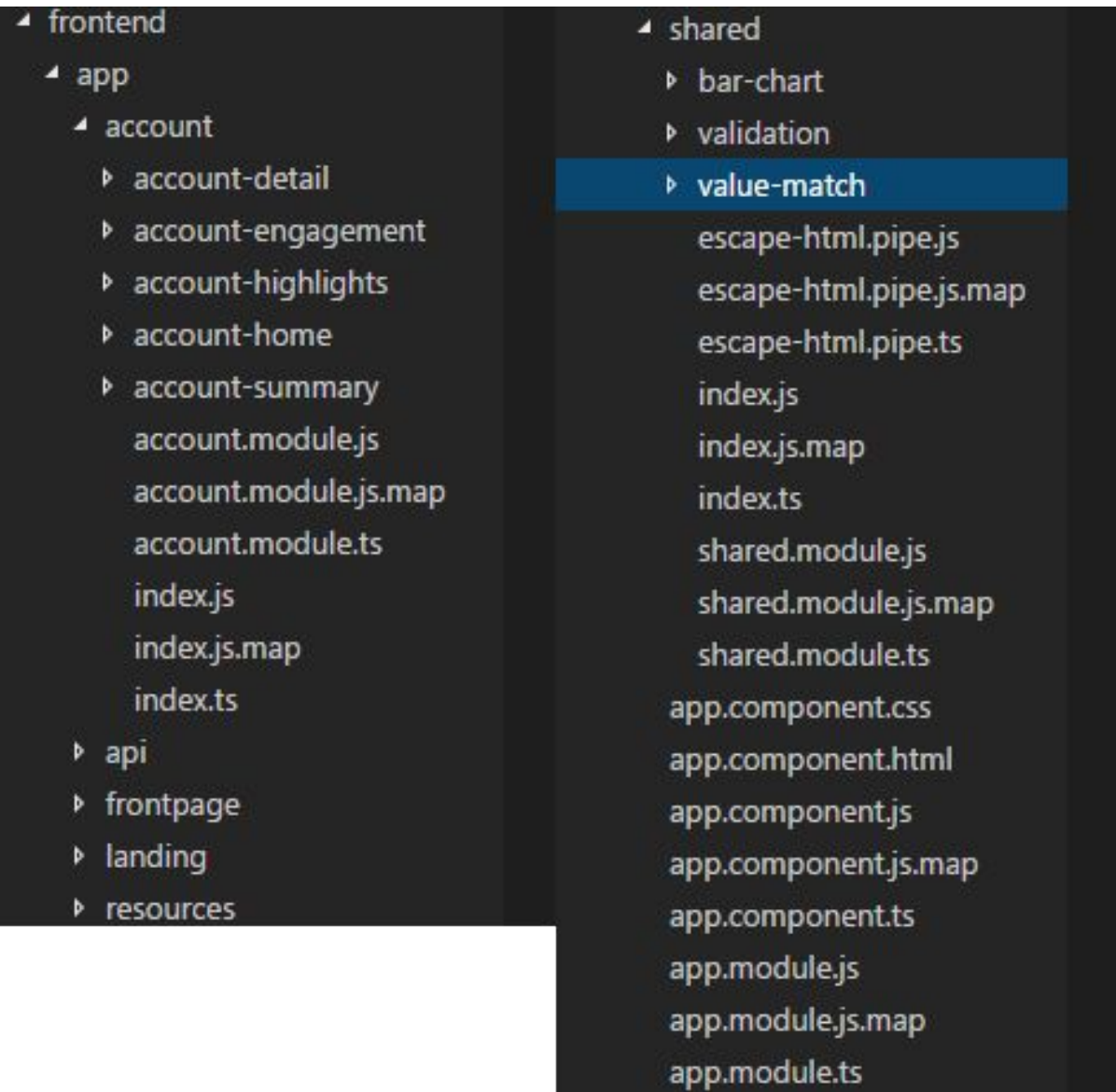
Api contains classes

and services

Two sub-modules:

account module

shared module



Backend

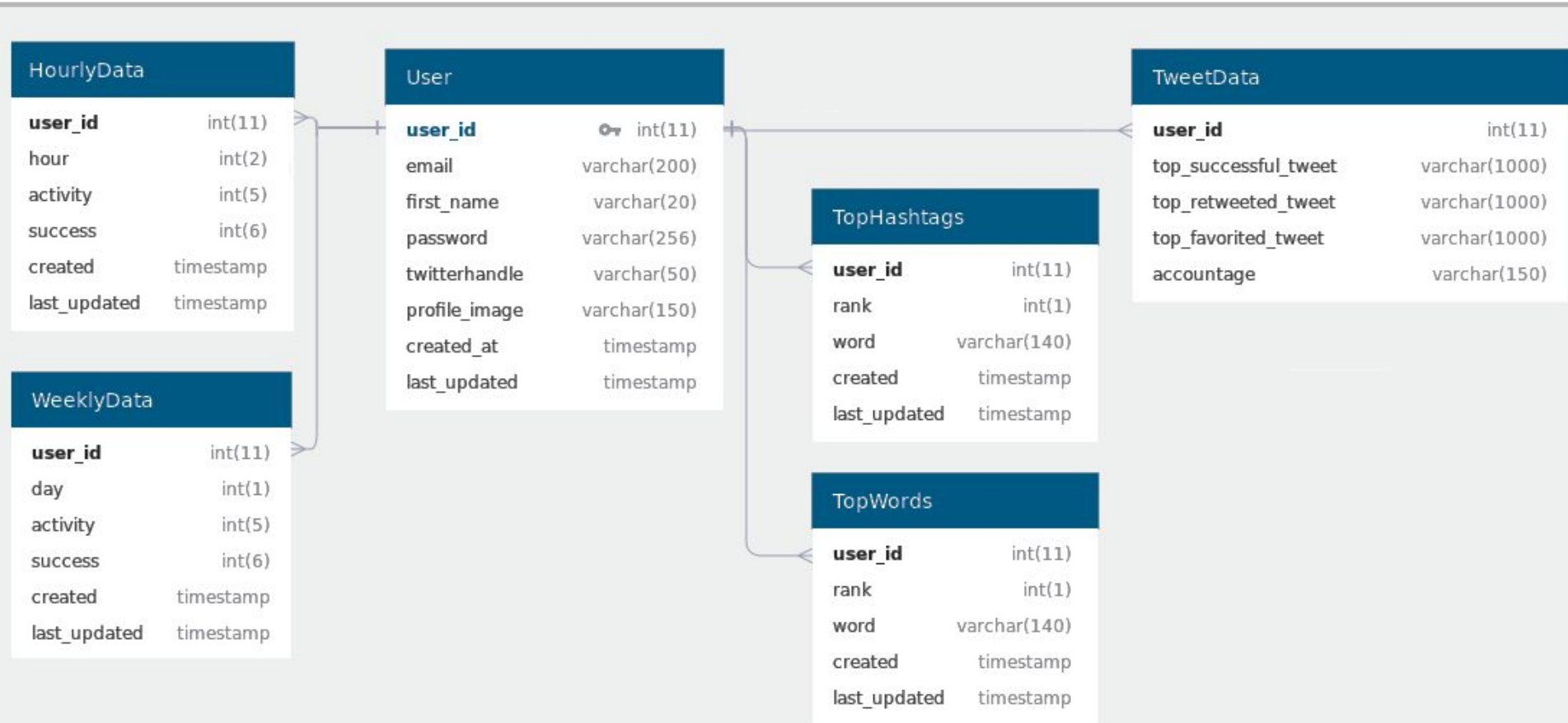
Key Features

- Utilized Twitter API through Python
- Secure password storage in database through hashing
- Machine Learning

A Practical Application of Machine Learning

- Utilized machine learning to analyze the positive/negative sentiments in tweets
- Opted for a Naive Bayes Classifier for a speed increase
- Model is ~78-80% accurate

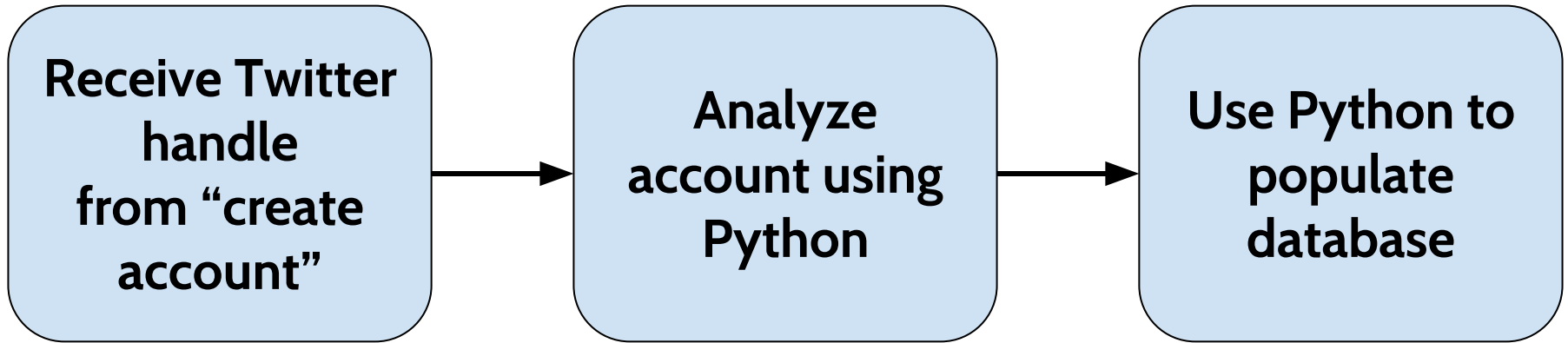
Database ER Diagram



Endpoints

- Authenticate user [POST] [/users/auth/]
- Create a New User [POST] [/user/]
- Get User Data [GET] [/user/{twitter_handle}]
- Get User Account Info [GET] [/user/info/{twitter_handle}]

Account Creation Flowchart



Live Demo

Questions?



Twitter Information Processing



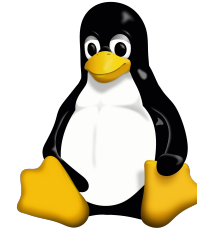
Tweet Sentiment Analysis



Frontend



Twitter API



APACHE
HTTP SERVER



MySQL®

LAMP Stack



SQL ORM for Python