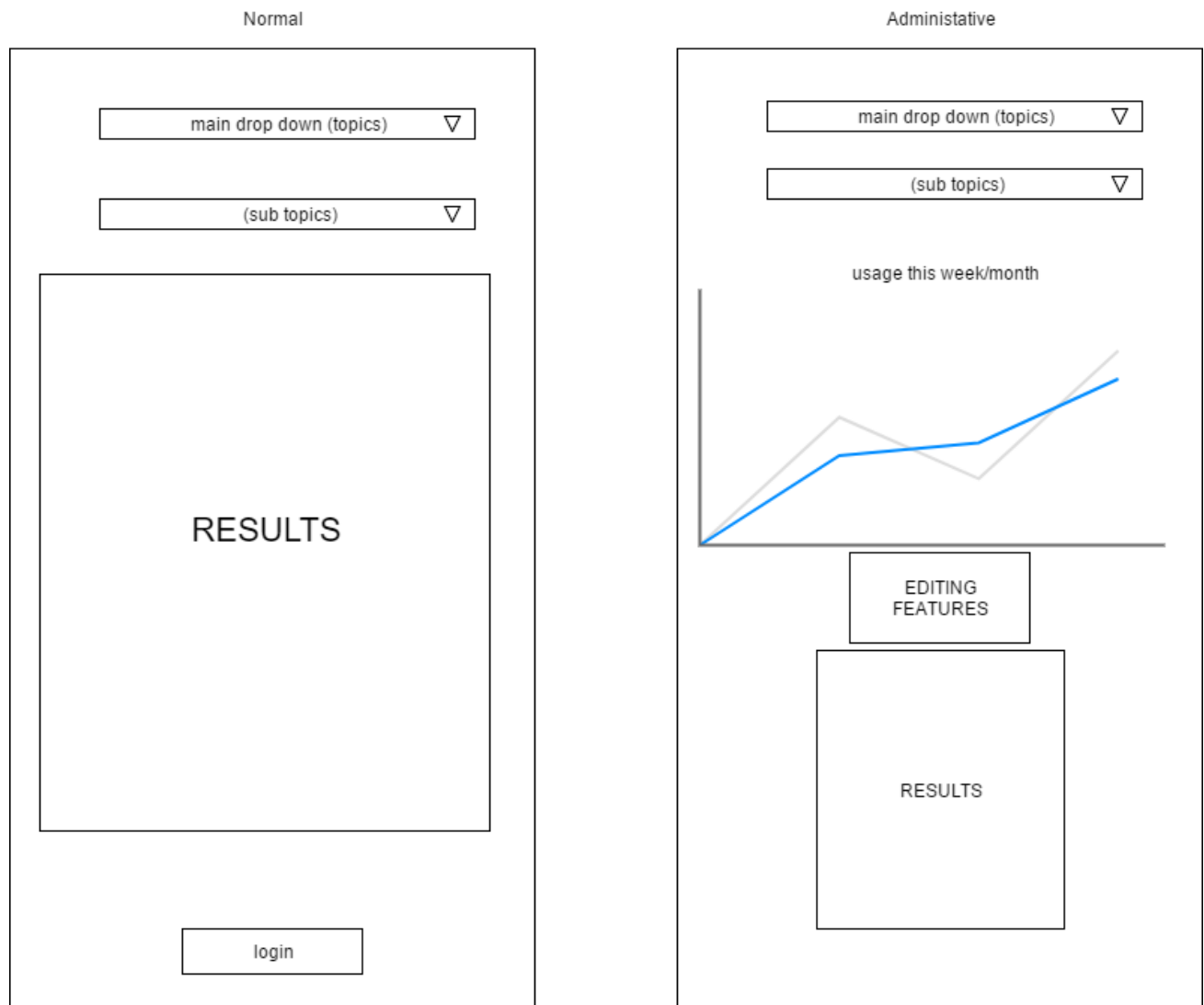**Design Document**
Team: Michael Caloz
Members: Karol, Yvonne, Bayle, Emma, Felix
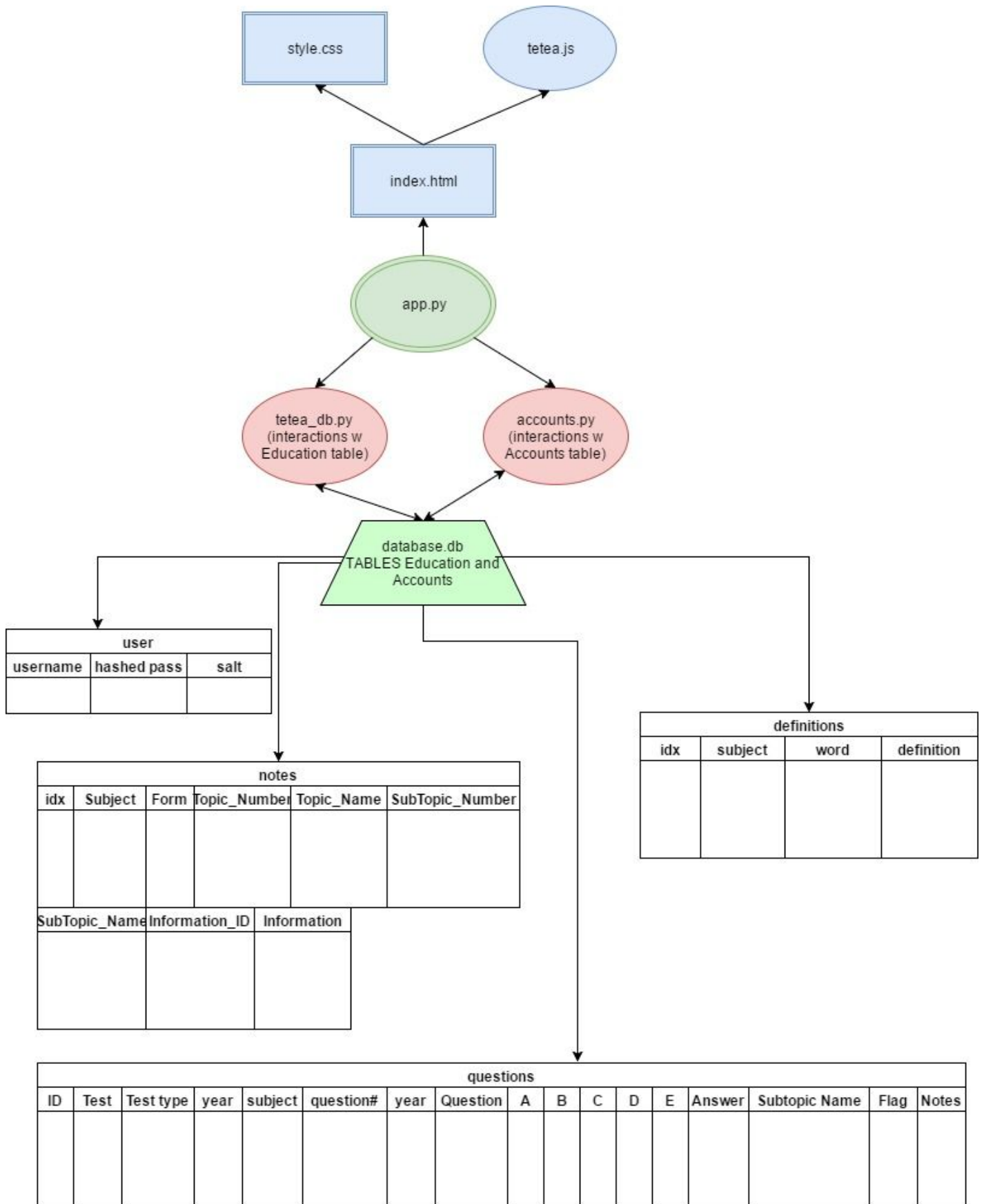
<u>Description</u>
    Our project is a Tetea Online access interface to an SQL
database that serves over 40,000 children in Tanzania. This
information is currently accessible through text messages, but the
process to receive information through text is tedious. Over 3/4ths
of the users use mobile devices to access the database so mobile
usability and low data usage are primary design concerns. The new
site also allows administrative accounts to access and edit the
information being displayed.

<u>Site map</u>

Normal

| main drop down (topics) ▽ |

| (sub topics) ▽ |

RESULTS

| login |

Administative

| main drop down (topics) ▽ |

| (sub topics) ▽ |

usage this week/month

EDITING
FEATURES

RESULTS

Component map

style.css

tetea.js

index.html

app.py

tetea_db.py
(interactions w
Education table)

accounts.py
(interactions w
Accounts table)

database.db
TABLES Education and
Accounts

user		
username	hashed pass	salt

definitions			
idx	subject	word	definition

notes					
idx	Subject	Form	Topic_Number	Topic_Name	SubTopic_Number

SubTopic_Name	Information_ID	Information

questions															
ID	Test	Test type	year	subject	question#	year	Question	A	B	C	D	E	Answer	Subtopic Name	Flag	Notes

*database structure is subject to change :)

(Extended) features
- Usage metadata for admins (potential second database) and graph portraying this data
- Decrease size of bootstrap source files (ex. remove unneeded button styling) to decrease data usage when site loads
- Restructure database?

Database schema (tetea.sql)
- SQL database has been provided

TABLE Notes* - Generalized categories, will be used in drop-down menus, broken down by subjects and then respective topics

TABLE Definitions* - Contains notes, ~3000 entries, Separated by topic name and subtopic

Table Questions* - Contains multiple choice questions and answers

*table column details have been included in the component map

TABLE User

username	hashed pass	salt
Username of this admin	Encrypted password of this admin	Salt of this admin's password

Style guidelines
- Comment before function to describe function
- CamelCase for variable names
- Comment out print statements
- Useful and clear Github commit messages (recycle for devlog)
- Bootstrap will be used as the frontend framework

Tentative Timeline
05/12/17: Initial design document
05/17/17:
    Basic database interactions working
    Basic admin account functionality
05/24/17:
    Mostly completed database interaction
    Full admin account functionality
06/02/17:
    Integrate database and accounts
    Integrate back-end and front-end
06/09/17: Figure out data usage, try to minimize

<u>Division of labor</u>

Karol: Project manager, database functions, anything that needs help

Bayle: Database handling/displaying

Emma: Admin accounts that can add/edit information

Yvonne: Database handling/displaying

Felix: Frontend