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SoftDev1 pd8
P #02: The End
2019-01-05

Git Güd

Project Description:

        This website allows someone to take advantage of the new year to git güd — that is, to expand one's vocabulary and improve their (touch) typing speed. If they've mastered all that, they can git güder by checking out random activities we have on our site.
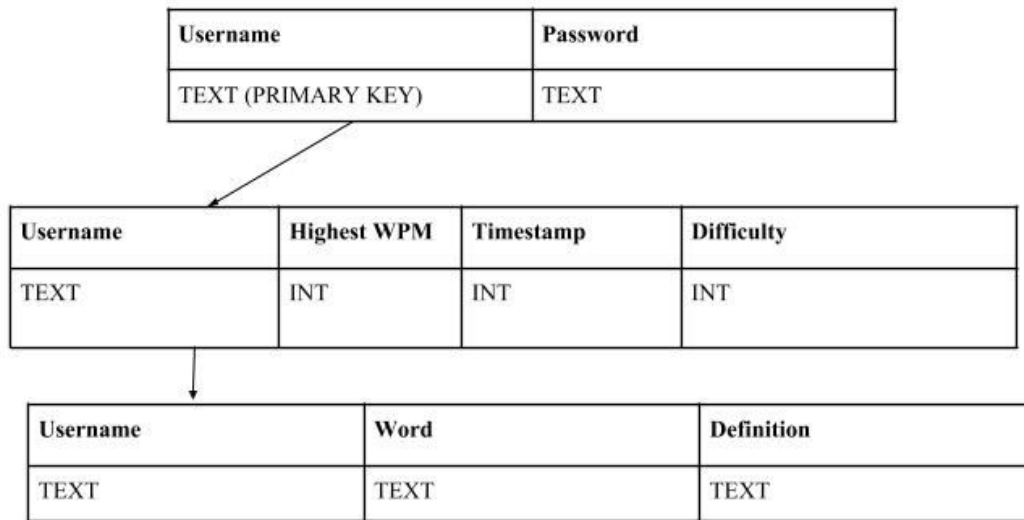
APIs Used:
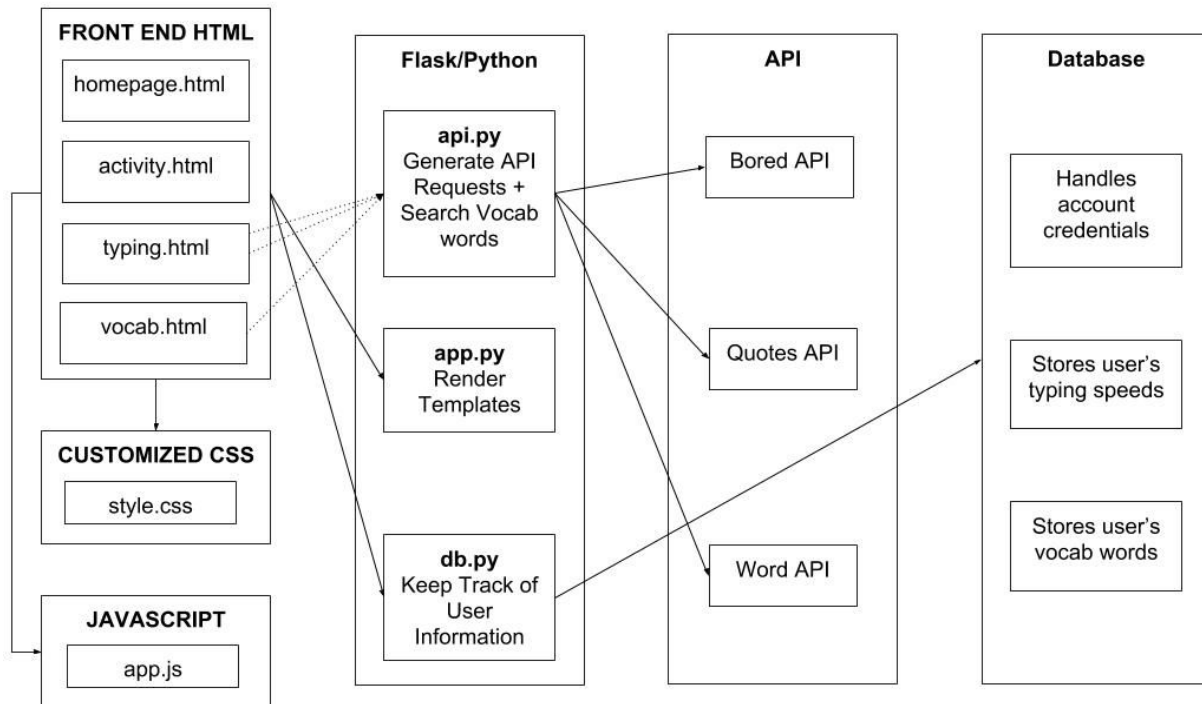- Bored API
- Quotes API
- Word API

Features:
- Random activities
    - Using the **Bored API**, random activities will be generated for the user to do.
    - Possibly a To Do list.
- Words
    - Initial UI: The list of words the user selected already and a search bar
    - A user searches for a word. Different words will be returned using the **Word API**. Each word will have an accompanying definition.
    - Users can select words that will then be displayed on their Dashboard. He/she can return to those words by going to their Dashboard at any time.
- Typing
    - Initial UI: The fastest WPM for each difficulty and a "Select Level of Difficulty"
    - The user will be given a paragraph/quote to type as fast as they can.
    - At the end of the stage, the user will be shown their WPM for that level.
    - All WPMs generated by doing levels will be entered into the database.
    - There will be different levels of progression (such as adding @#%*, etc.)
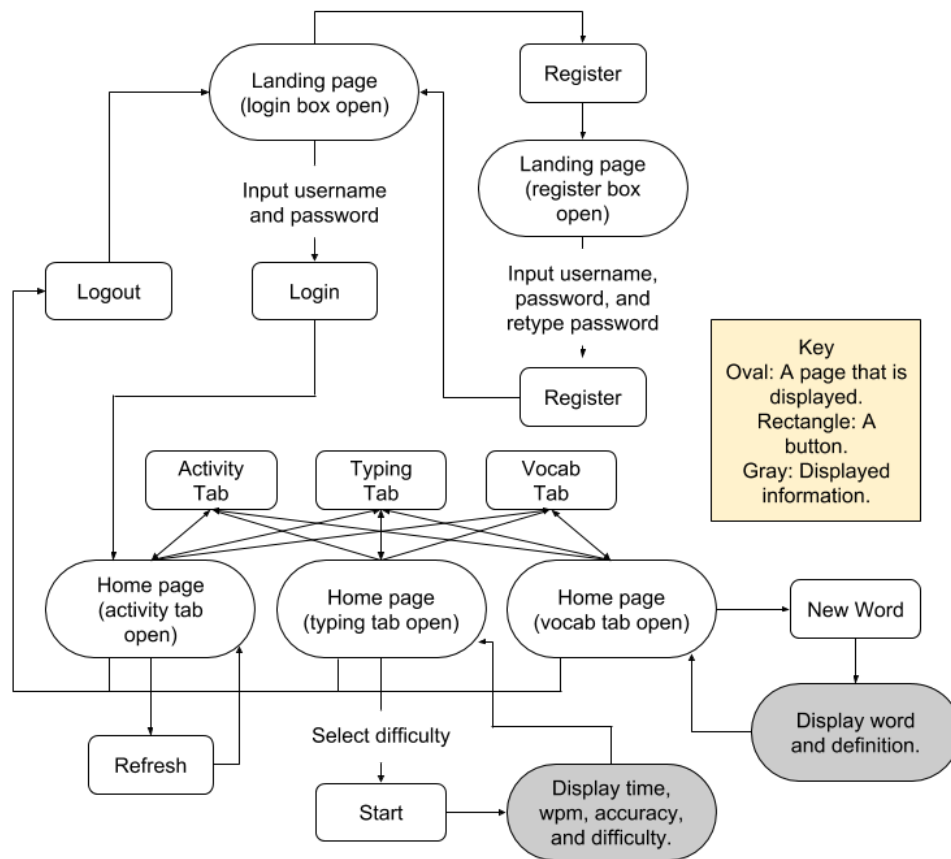   - The **Quotes API** will be used for some of the levels.

Database Schema:

Username	Password
TEXT (PRIMARY KEY)	TEXT

Username	Highest WPM	Timestamp	Difficulty
TEXT	INT	INT	INT

Username	Word	Definition
TEXT	TEXT	TEXT

Component Map:

Sitemap:

Note: Begin on Landing Page (login box open)

Task Delegations:
- RAUNAK:
  - Words
  - Flask work
  - Frontend Design (% TBD)
- HUI MIN:
  - Random activities
  - Database work
  - Frontend Design (% TBD)
- ANTON:
  - Typing
  - Frontend Design (% TBD)

Roadmap:

2019-01-07

- Database skeleton set up (H)
  - DB creation (and checking for the existence of the DB)
  - All current DB calls should be functional
- Login system set up (H)
  - Fully functional, can use login system from last project
- API skeleton set up (R)
  - Using generalized API call function from the last project
- Flask skeleton set up (R)
- Foundation skeleton set up (A)
  - base.html, etc.
- All necessary Python files created (H+A+R)

2019-01-08
- Begin implementing DB calls according to schema (H)
- Begin working on Words (R)
- Implement necessary routes up to this point (R)
- Begin working on Typing (A)

2019-01-10
- Finish Words (R)
- Implement necessary routes up to this point (R)
- Continue working on Typing (A)
- Implement all necessary DB calls up to this point (H)
- Depending on who finishes, work on frontend HTML/CSS (H+A+R)

2019-01-11
- Hard deadline for Typing (A)
- Implement necessary routes up to this point (R)
- Implement all necessary DB calls up to this point (H)
- Depending on who finishes, work on frontend HTML/CSS (H+A+R)

2019-01-13
- Stress testing complete (H+A+R)
- Acquire >8 hours of sleep

2019-01-15
- Final deadline + demos

Note: All deadlines are tentative