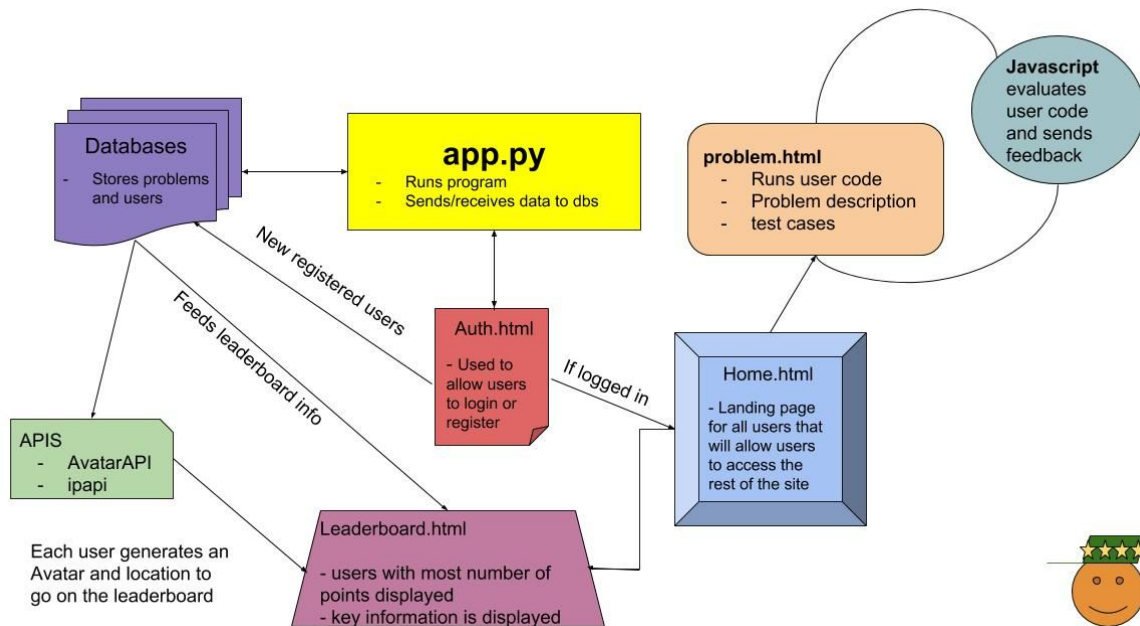


## CodingGeneral

### Program Components

- Login/Sign Up Page
  - Users are greeted a login page and non-registered users may login
- About Page
  - Simple page that displays our mission statement and a general overview of the site/how it works.
- Problems Page
  - Provides a list of Easy/Medium/Difficult problems. The progress within the problems is sequential meaning users must complete a problem before being able to do the one after.
- Leaderboard Page
  - A list of all registered users sorted by their points (points are earned by completing problems) and their country/username
- Creating Problems Page
  - Admins are the only users with access to this page which allows them to upload problems (problem description, test cases, solution) and categorize their difficulty (Easy/Medium/Hard). If the solution code provided doesn't pass the test cases, problem is not posted.
  - Admins must be added manually into the database to prevent normal users from gaining entry.
- Problem Page
  - After a user selects a specific problem from the Problems Page, they are brought to this page where a description of the problem and JavaScript text editor is available. There is a button where users can check their code with the visible and hidden test cases (the hidden test cases are to discourage users from submitting hard coded solutions).
- EXTRAS:
  - Shop Page
    - With the points that the user gets from completing problems, they are able to buy different confettis (confetti is displayed when a user successfully completes a problem)
  - Save Functionality
    - Add a 'Save' button to the Problem Page which allows users to save their code to work on later.
  - Give Up Button
    - Add a button on the Problem Page that allows users to get access to the solution

## Relation of Components

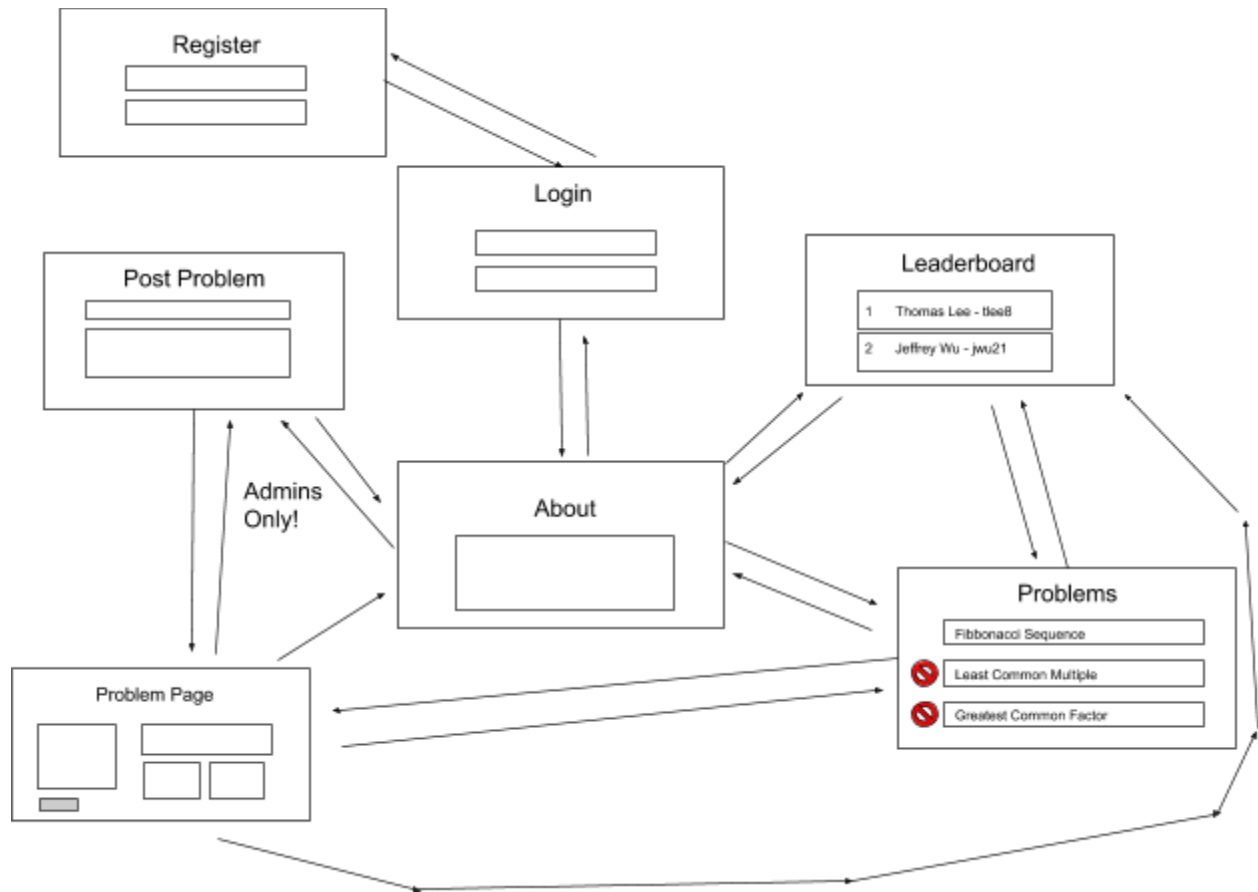


## Database Schema

Questions	
ID	NUM
Name	TEXT
Description	TEXT
Test Cases	JSON DICTIONARY
Solution	TEXT
Point Value	NUM

Users	
ID	NUM
Username	TEXT
Password	TEXT
Points/Score	NUM
Questions Solved	TEXT dictionary
Country	TEXT

## Site Map



## Task Breakdown

Jeffrey -- Project b0ss; assist with backend ; use js to add to frontend

Dame -- Database management + API integration

Tom -- Front-end, HTML + Jinja2

Sanjay -- Backend + JavaScript (the parts associated with backend)