

**Team Name:**

Longer Blockchain Iced Tea

**Devs:**

Iris, Dimitriy, Angelica, Ray

**Title:**

Stuy Escalator Monitoring System

**Project Description:**

Our project will allow current and future Stuyvesant students to monitor all of the school's 14 escalators in real time. This was attempted before but only lasted about a week or so. We want to make an improved version of it that will actually be a useful resource for students.

**How to Use:**

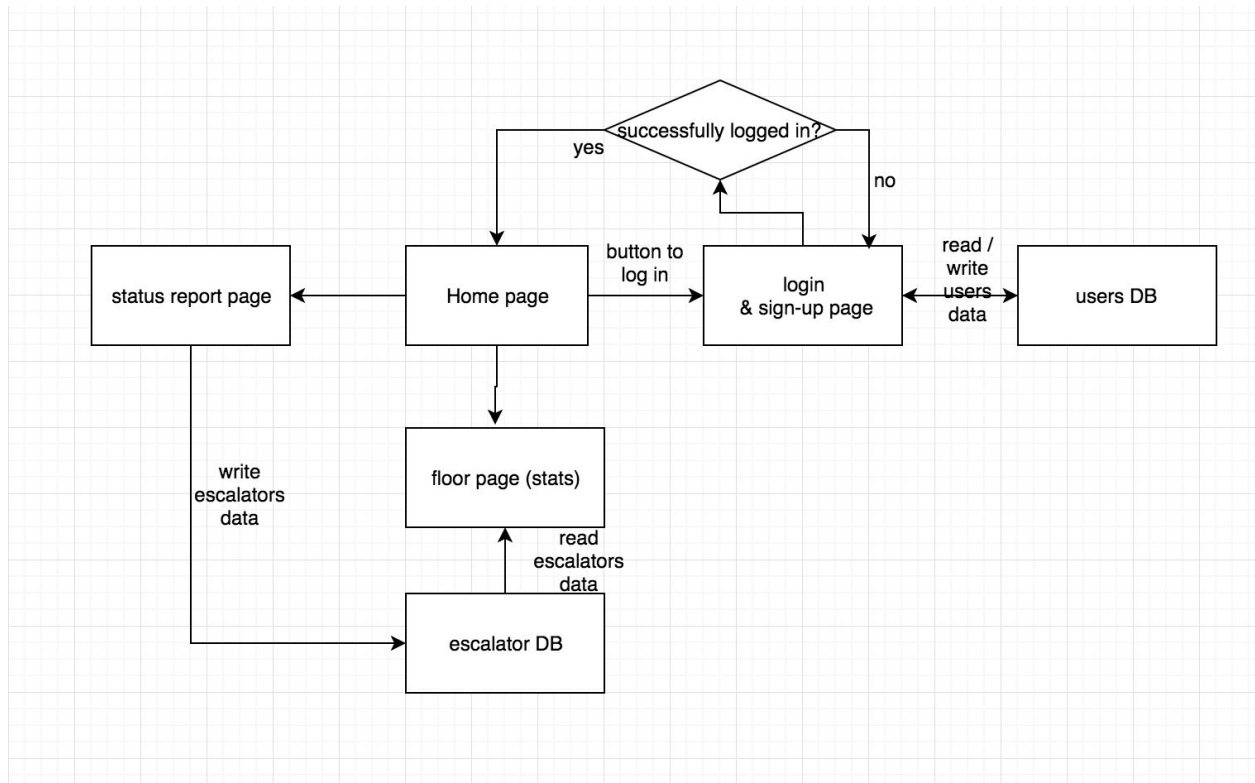
The website will display images representing each of Stuy's 14 escalators. If the escalator is operating, the image will be green and if it is broken, it will be red.

**Component Description:**

- Homepage.html
  - Welcome feature
  - Juxtaposition of all working and non-working escalators
    - Each of which will be labeled with its location (floor and direction, e.g. 7 → 9 | up) and the specific time at which the latest status is updated (e.g. 05/15/18 09:28 AM).
    - If you click on a set of escalators, you'll be directed to the floor.html page that corresponds to that specific floor.
    - Button where users can be directed to the login page
  - Contains a section for escalator-related tweets and buttons to share the current overall status on social media
- Login page
  - Allows students to log in with their student id and report escalator status in real time
  - Returns to homepage once logged in

- Floors page
  - Display statistics and recent escalator history for the set of escalators on that floor.
  - Uses d3 for data visualization
- Status report page
  - Allows logged in users to report real time escalator status
- Escalator history database
  - Contains records for all escalator events (categorized by floors)
  - Each time an escalator breaks, a record will be instantly logged and stored in the escalator history database.
  - This data will then be used for displaying stats on floors.html page.
- Login info database
  - Contains username and password info for student users

### Component Map:



### Site Map for Home Page:

### **Database Schema:**

- Escalators.db
  - Contains records for all escalator events (categorized by floors)
  - Each time an escalator breaks, a record will be instantly logged and stored in the escalator history database.
  - This data will then be used for displaying stats on floors.html page.

Floor	Direction	Event	Time	Reason
7	down	Out of service	05/15/18 09:28 AM	repair
4	up	Out of service	05/16/18 03:28 PM	unknown
...	...	...	...	...

- users.db
  - When the users first sign up for an account, they will have to provide their real student id info (OSIS, name, official class), such that we can prevent them from intentionally reporting the wrong escalator status. (i.e., they'll know that we do have a way to track them down by their identity)

Username	password	Student's (real) name	OSIS	Official class
jzhi123	232314Jz.9	Jenny Zhi	235000000	1MM
...	...	...	...	...

### **Tasks:**

**Iris:** project manager, html templates (aside from the homepage)

**Ray:** Twitter api--search for escalator-related tweets to display;

**Angelica:** backend stuff (sqlite database, flask)

**Dimitriy:** JavaScript: hover over an escalator to display how long it's been broken/operational, html (homepage), bootstrap

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**Tentative Timeline:**

5/18/18 Friday: database and basic frontend framework setup

5/20/18 Sunday: floors page setup

5/23/18 Wednesday: all pages (login, signup, homepage, floors, etc.) set up (and connected with db if necessary)

5/31/18 Thursday: all fundamental features should have been implemented

6/8/18 Friday: all done (?)