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SoftDev1 pd9
P#02 — The End
2020-01-05

StuyBook (STUYVESANT SOCIAL MEDIA)

Project Objective

Our project is aimed towards providing a fully functional networking site for Stuyvesant students, mostly geared towards self-management, entertainment, and community. By incorporating REST APIs, JavaScript, Flask, and databases managed by SQLite, our site will allow users to meet other Stuy students and develop their personal profiles for multiple uses.

Users MUST register and log in with their Stuyvesant email, so as to protect the authenticity of the platform. From there on, our site focuses on three basic corners: networking, games, and self-management.

In networking, users will have the simple functionality of viewing others' profiles, posting and blogging, viewing others' posts, joining groups and pages, etc. The extra aspect aimed towards Stuy students will be the ability to log your schedule into your profile and view who else is in your classes. This will create a "class group" for students to communicate.

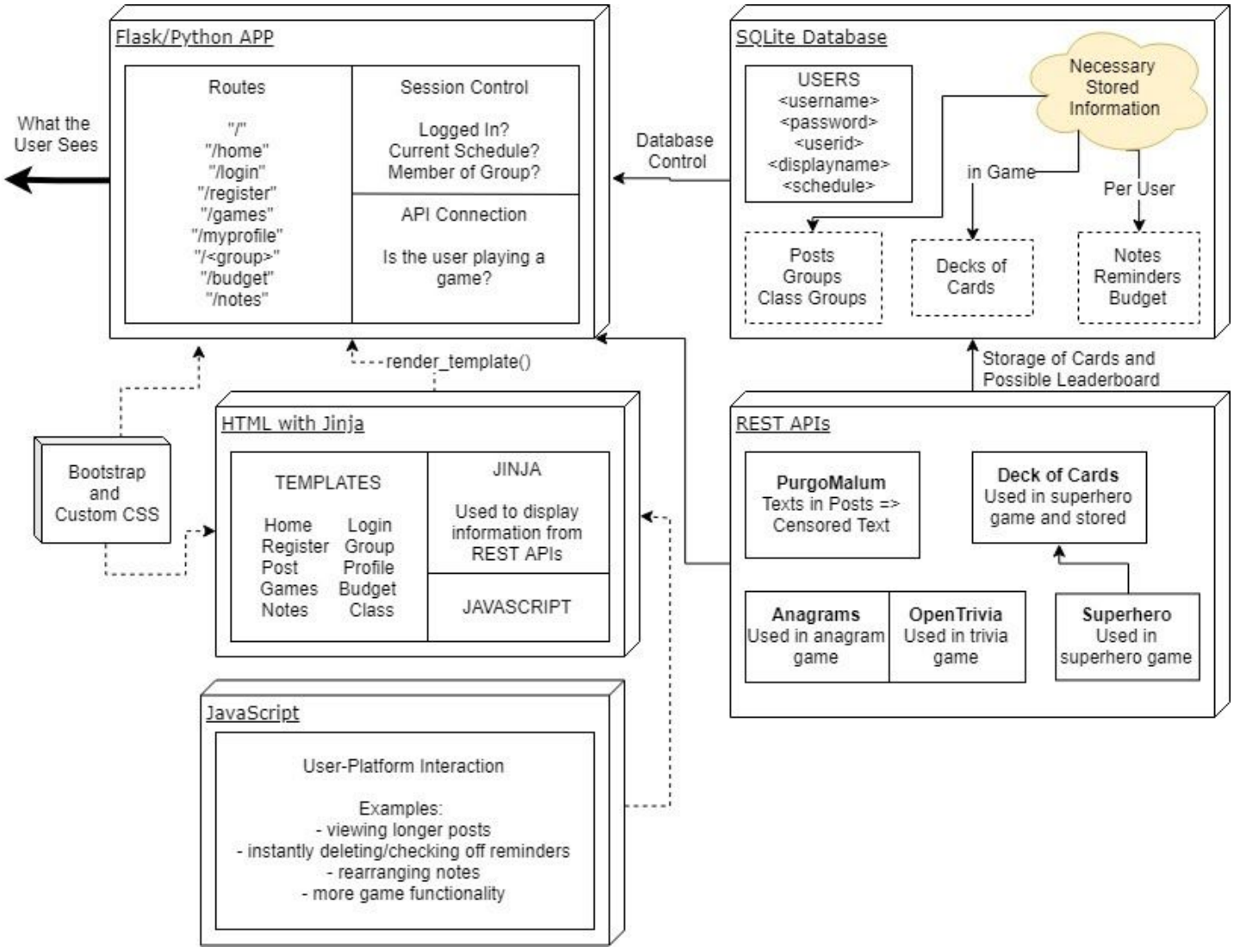
The games corner is pretty self-explanatory, implementing multiple APIs such as a Deck of Cards API and the OpenTrivia API. Players will be able to gain points and see themselves on a leaderboard.

Self-management will be centered around the user's ability to log information, such as keeping notes, reminders, and above all, managing their budget.

We will be using *Bootstrap* as our front-end framework because of its wider variety of styling templates compared to Foundation.

Component Map

Flask (Python3), Bootstrap, CSS, APIs, SQLite, JavaScript



APIs

	Link	**Key?**	**Returns...**	**Usage**
PurgoMalum	https://www.purgomalum.com/	No	Text with curse words filtered out using *	No swearing on our good ~~Christian~~ platform
Deck of Cards	https://deckofcardsapi.com/	No	A deck of cards with an id and remaining cards when given a number	Superhero battle game
SuperHero	https://superheroapi.com/api/	Yes	Information about a certain superhero by ID (up to 732 heros)	Superhero battle game
Anagrams	http://www.anagramica.com/api	No	All anagrams given some letters	Anagram game
OpenTrivia	https://opentdb.com/api_config.php	No	Questions with their categories and answers	Trivia game

Database Layout

PKs and FKs

USERS

Email	**User ID**	**Username**	**Password**	**Display Name**	**Schedule Index**
dleung00@stuy.edu	0	Derek	Leung	Buford	0

SCHEDULES (each period is a column)

Index	**Period 1 | Period 2 | ...**
0	Free | AP Calc AB | ...

GROUPS

Group ID	**Group Name**	**Post Indices**	**Members**
0	AP Calc AB	[0]	[0]

POSTS

Post Index	**Author**	**Text**
0	0	“Hello world!”

SELF-MANAGEMENT

User ID	**Notes**	**Reminder Indices**	**Budget Index**
0	[“Work on design doc”]	[0]	0

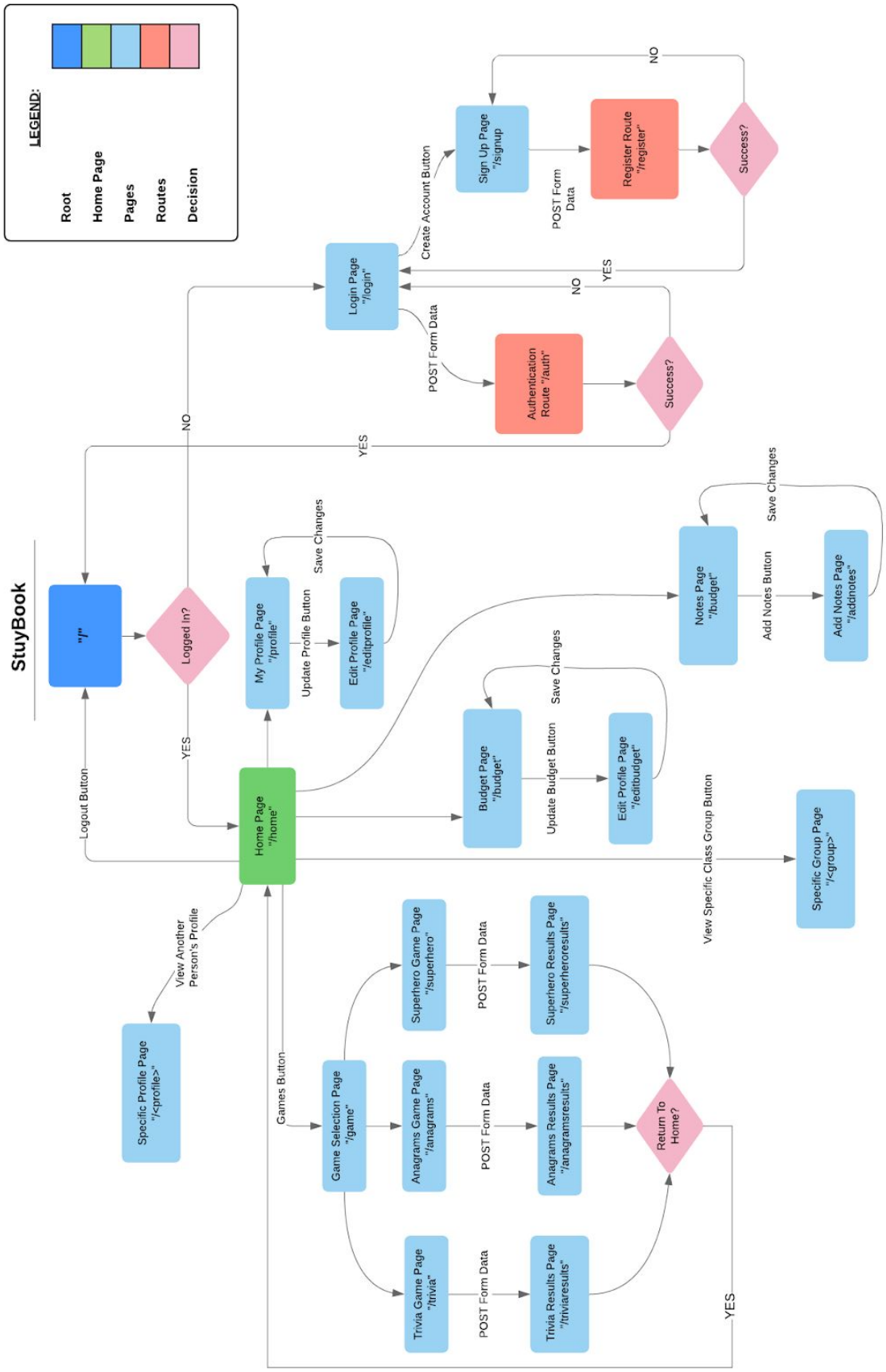
BUDGET

Index	**Payment**	**Date**
0	$100	1/5/2020

REMINDERS

Index	**Reminder**	**Time of Alert**
0	“Design Doc Due”	1/5/2020 23:59

Site Map


LEGEND:
Root
Home Page
Pages
Routes
Decision
StuyBook
"/"
Logged In?
NO
YES
Login Page "/login"
Create Account Button
Sign Up Page "/signup"
POST Form Data
Register Route "/register"
Success?
NO
YES
POST Form Data
Authentication Route "/auth"
Success?
NO
YES
Logout Button
Home Page "/home"
My Profile Page "/profile"
Update Profile Button
Edit Profile Page "/editprofile"
Save Changes
Budget Page "/budget"
Update Budget Button
Edit Profile Page "/editbudget"
Save Changes
Notes Page "/budget"
Add Notes Button
Add Notes Page "/addnotes"
Save Changes
View Specific Class Group Button
Specific Group Page "/<group>"
View Another Person's Profile
Specific Profile Page "/<profile>"
Games Button
Game Selection Page "/game"
Superhero Game Page "/superhero"
POST Form Data
Superhero Results Page "/superheroresults"
Anagrams Game Page "/anagrams"
POST Form Data
Anagrams Results Page "/anagramsresults"
Trivia Game Page "/trivia"
POST Form Data
Trivia Results Page "/triviaresults"
Return To Home?
YES

Development Stages

I. Creating the App
   A. Make all necessary connections between components, such as JavaScript, Bootstrap etc
   B. Add in Login and Register mechanism working with the database
   C. Guarantee that users must register with stuy.edu emails
   D. Add in Profile pages in order to work with self-management parts of the project

II. Triple Attack
   A. Networking
      1. Blogging Implementation using past projects in the general feed
      2. Creating of groups, making and adding others, with database control, public and private
      3. Class groups based on schedules, taking in all users' schedules to see classes
      4. PurgoMalum API used on texts in posts before they are posted
   B. Games
      1. Superhero game using the deck of cards API and a limited number of superheros from the API (# out of 732)
      2. Anagram game using the anagram API
      3. Trivia game using the trivia API
      4. Leaderboard in ALL games, incorporating a point system
   C. Self-Management
      1. Budget tracking using JavaScript and a self calculating set up
      2. Reminders set up with dates and alerts, also triggered by JavaScript, viewable in general profile
      3. Notes stored and editable, also deletable

Roles

- Flask app creator (Tammy)
    - Will create a Python flask application that will have each of the routes we need (mentioned above)
    - Will make sure that the pages that require you to be logged in cannot be accessed by just typing the extension into the URL if you have not logged in
    - Will make sure to flash messages when appropriate to do so (i.e. flashing a login error when submitting a wrong username or password on the login page)
- HTML/Jinja Person (Grace)
    - Will create the HTML templates for each of the routes
    - Will use forms when appropriate (i.e. login page => username and password inputs, submit button)
    - Will use Jinja to take in and display variables when necessary
    - Will pay attention to aesthetic details
- Database Person (Derek)
    - Will write a Python application to create appropriate databases and tables, making sure to only add them if they don’t already exist
    - Will facilitate adding to, editing contents in, and potentially removing from tables