Stinky Fingers: Austin Ngan (Gerald), Yoonah Chang (Yelena), Yaying Liang Li (Blob), Han Zhang (Sirap)
SoftDev
P04: Ultibase
2022-05-27
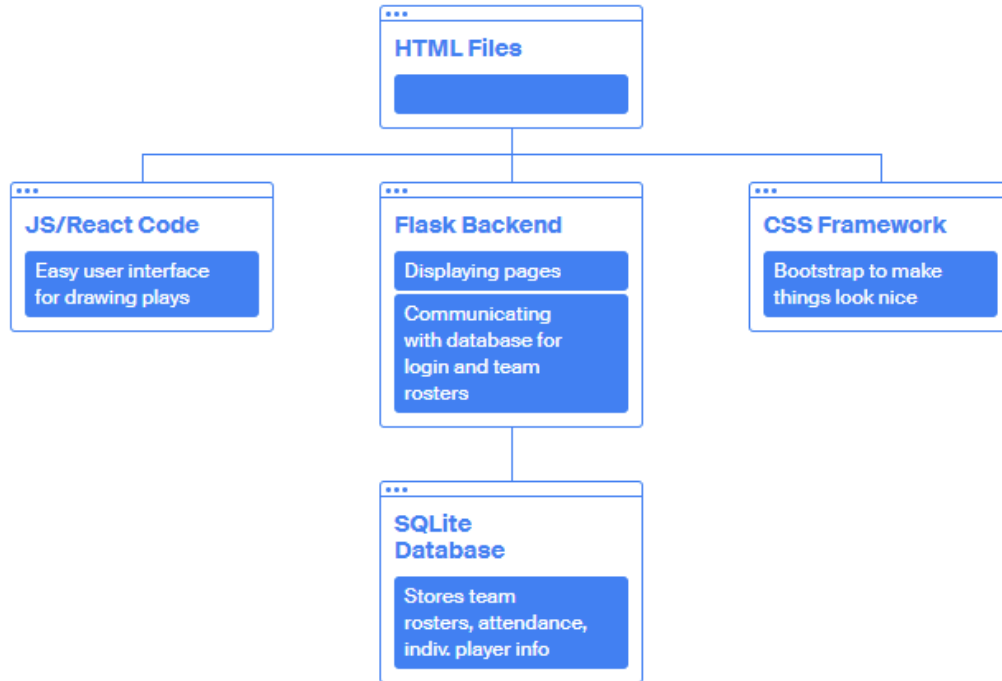
ULTIBASE

Description: We are creating an all-in-one Ultimate Frisbee site that can check attendance, see the team's official roster, store important information like emails and USAU IDs, and draw Ultimate Frisbee plays like cuts and drills (clone of https://www.ultiplays.com/). Important links and documents will all be stored in one place, so captains and team members can access them easily.

Components and Purpose:
- Drawing plays/progression of plays using canvas (animations or slideshows)
- Creation of teams/adding players to rosters
  - Having an announcements section on the dashboard to communicate
  - Important links/documents on the dashboard
  - Calendar to see upcoming practices/events
- See yearly roster + roles
- Attendance Checklist
- Toss Buddy Tracker
  - Tells what frees align with a teammate's
- Flask
  - Display HTML Pages
  - Data is pulled from the database in order to populate each webpage
- Jinja2
  - HTML templates
  - Form input collection
- JavaScript:
  - Canvas to draw plays
- SQL Database:
  - DB of team + DB of all users
    - Tracking attendance
  - Keeps track of each player
- Bootstrap:
  - Navbar
  - Simple CSS elements to make website uniform
  - About page

Component Map:

HTML Files

JS/React Code
Easy user interface for drawing plays

Flask Backend
Displaying pages

Communicating with database for login and team rosters

CSS Framework
Bootstrap to make things look nice

SQLite Database
Stores team rosters, attendance, indiv. player info

Database Organization:
Users Table

email (String)	password (String)	name (String)	usau ID (int)

*email for sending notifications

**can be set so that if email doesn't end with @stuy.edu, account is not created, throws error (no information leakages that way)

Yearly Roster Table

year (int)	team (boys/girls a team/b team); (String)	roster (long String)

Possible Alternative
<Year> #admin access only

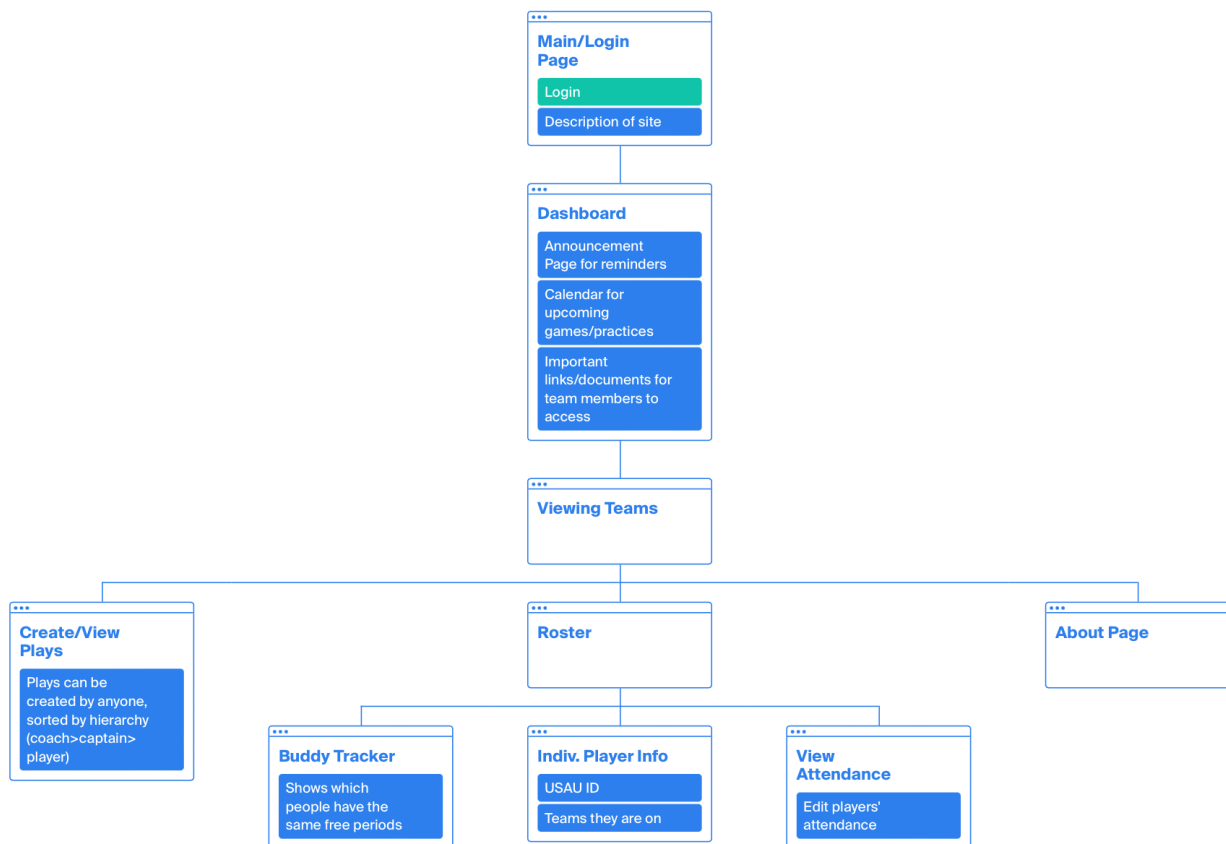| email (String)	name (new row per person); (String)	team (b/g a/b); (String)	usauID (int)

Event Table

event name (String)	event description (String)	attendance (String of people going separated by commas)

Alternative

*write to a file; file name is event name; separate event description and attendance with an asterisk *, attendance include people separated by commas

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Site Map:

Division of Tasks:

Austin: Project Manager & Frontend & Deployment (DO)

Yoonah: Frontend (HTML/JS)
Yaying: Backend (JS/React)
Han: Backend (DB & Routing)

Ship Date
- 06/10/22