

Team 4

Software Development

Period 9

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Project Manager : Kerry

## Project 2 : Dancing Queen

### Description:

This site will allow choreographers to record and share dance formations with their dance teams. Members of dance teams will be allowed to view formations that their choreographers/directors put up. Each song that a choreographer makes formations for is called a “piece”, and each “piece” can have multiple formations. Users can upload the audio file that contains the song that the dance team wants to make choreography for.

### Components:

APIs: spotify api or some other music api (stretch)

Database:

Used to store user information, pieces, formations, etc.

Javascript dance formations:

The key feature in this project and what the user is going to be mostly be interacting with

`create_piece.js`

(displaying the dance formations, connected to `create_piece.html`)

`fetch_dance_data(PieceID):`

Returns a json with the dance formation information

`update_data():`

Updates `dance_formation` data based on the new information given by the user

app.py

- `index()` : root page if not logged in, else home page.
- `login()`:
  - Basic login page
- `logout()`:
  - Basic logout page
- `register()`:
  - Allows users to create accounts, may also allow accounts for an entire team to be created at once for convenience.
  - Invite links (stretch)
- `teams()`:
  - Allows users to create and drop teams as well as invite potential members. Team permissions are also changed here

database.py

- `create(user,pass)`
- `getpass(user)`
- `getnick(nickname,team)`
- `createteam(name,leader,nickname)`
- `addmember(team, member, nickname)`
- `editnick(team,member,nickname)`
- `getteams(username)`
- `addpermission(user,pieceid)`

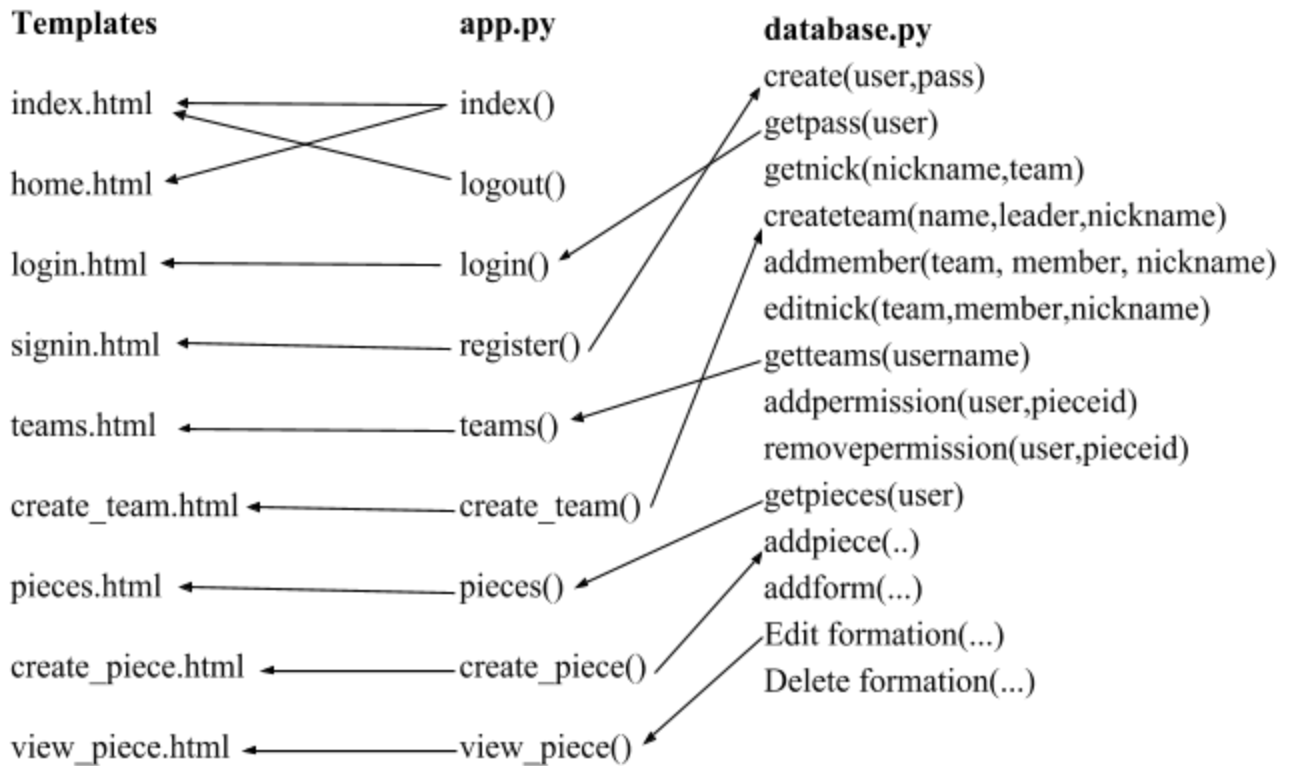
- removepermission(user,pieceid)
- addpiece(team,song,username,name,path,length,width,rows,columns,privacy)
- getpieces(user)
- addform(pieceid,formation number, Dancer,xcord, ycord, time)
- Edit formation(pieceid,formation number, Dancer, new xcord, new ycord, new time)
- Delete formation(pieceid,formation number, Dancer,xcord, ycord, time)

## Templates

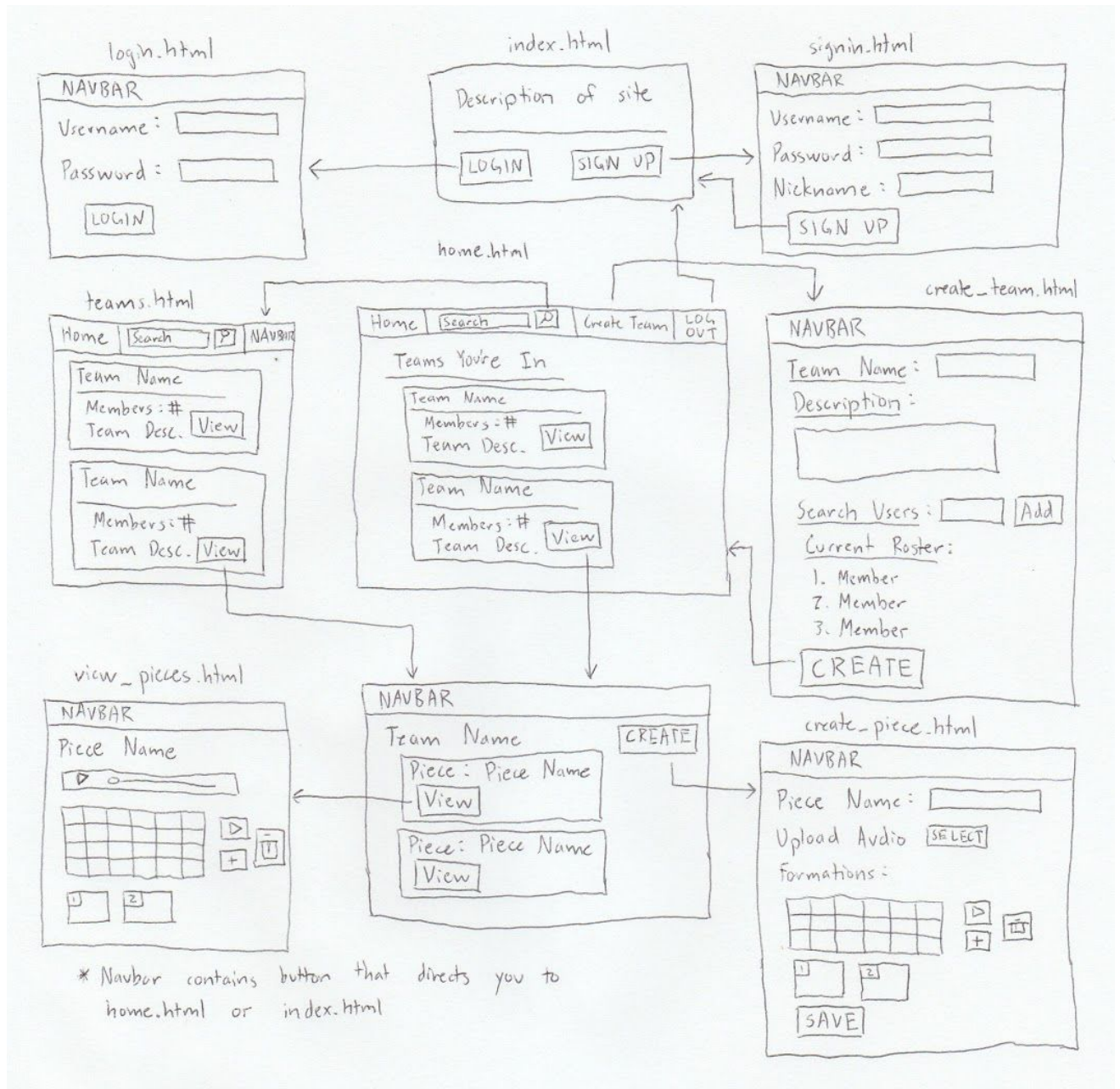
- index.html
  - Buttons to either sign up or login
- home.html
  - Your pieces and teams you're in.
- login.html
  - Login page, asks for username and password
- signin.html
  - Sign in page, create a unique username, an optional nickname, and a password.
- teams.html
  - See list of teams and their past dance pieces
- create\_team.html
  - Search users to add to team,
- pieces.html
  - Show all the pieces of a team
- create\_piece.html

- Add a piece, upload a song, create formations
- view\_piece.html
  - Allows members with permission to edit it
  - Regular members can view
  - Edit nickname
  - Allow owner of team to grant permission for pieces to members
- Front end framework: Bootstrap
- style.css

## Components Map:



## Site Map:



## Database Schema:

User:

Username(unique)	Password(hashed)
“Bob”	“76i123ru902”
“Alex01”	“klasdjf3j4tk2”

Team:

Team Name	leader (bit) 1 = leader	ID(unique)	Members(userna me)	nickname(String )
“Stuy Legacy”	1	4	“Bob”	“Bobby”
“Stuy Legacy”	0	4	“Alex01”	“Alexander Duh Great”

Piece:

Team id	Piece ID	Song Name	path	Piece Name	Length	Width	Rows	Colum ns	Privac y
4	10	“That’s What I Like”	pieces/ <Piece ID>/so ng	“The Best Piece”	5	5	5	5	“Publi c” / “Privat e”

Permissions:

Piece ID	User id
10	“Bob”

Dance formations:

Piece ID	Formation ID	Dancer	x-coordinate	y-coordinate	Time(int in seconds)
3	1	“Alexander Duh Great”	2	3	0
3	1	“Bobby”	2	5	0
3	2	“Alexander Duh Great”	4	5	15
3	2	“Bobby”	4	7	15

## Roles:

Members are not bound to their roles, they are only responsible for the basic structure of that particular part.

Kerry Chen:

project manager

database

Edmond Wong:

Javascript

Fabiha Ahmed:

Flask

Philip Park:

Templates + CSS

## Tentative Timeline:

Flask basics + front end by Wednesday (5/16)

Functional login system by Wednesday (5/16)

Create/View teams functional by Friday (5/18)

Create a piece by Wednesday (5/23)

View piece/edit piece/add permission by Friday (5/25)

Spotify/other music APIs? (extra time)