

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)