

VERSION 3

Overview

A devo dating app, with the guided assistance of a Topher bot. Users will create their profile by adding a description about themselves and add preferences such as their favorite coding language, and song to listen to while coding. Once their profile is created, devos are sent to the main page where they can accept or reject a preset profile. When a user matches with a profile, they will be redirected to the messages page where they can send messages to the user they matched with. If the user prefers to talk to an AI over actual people, they have the option to message a “git clone” of the great Topher Mykolyk alongside various other AI clones of celebrities and practice social interaction before putting themselves out there on the internet.

API

Character AI

- No limit
- Will generate the responses for our AI bots Our custom Topher Mykolyk character AI was created on the character.ai website and was trained off of the Piazza posts of DTM. The direct messages with git clone Topher will already be there for every fresh account made on the website. However, the message history between git clone Topher and the user will be deleted after the session has ended.

Program Component Connections:

- Flask/Python: connects the routes to different pages and connects the backend databases to the frontend.
- SQLite3: stores information about user info (login information) and all info displayed on user profile (description, preferences) including preset profiles. User dialogue and bot dialogue options are saved on a different table.
- HTML + Jinja + CSS + Tailwind: creates web pages that create a clean and accessible user interface. Will provide notifications and flash messages any important information to the user.
- JavaScript: implemented into frontend to create messages that update in real time. Also will provide notifications for any new messages if on a different tab or matches.

Database Organization:

The database for the devo dating app is organized into at least six tables to manage user data, matches, messages, and Topher dialogue. The Users table stores user-specific information like login credentials, a personal description, and preferences such as favorite coding language, and song. The Matches table tracks if the user accepted (true) or rejected (false) another user. Both users must have accepted each other before a prompt opens up to

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start a conversation. The conversations table holds which chat histories are available. A chat history table is then created corresponding to each row in the conversations table. If there are multiple keywords, the bot will send the dialogue response tied to the first keyword found. If no keywords are found, the null dialogue option is returned.

SQL Databases:

User Table

ID	Username	Password	Description	Language	Song
0	tophertime42	tiempodetopher	Loves coding	Javascript	Happy
1	shmopher69	impostadevo	Lonely but ok	Python	Not Like Us
2	devofam123	wedabestmusic	Optimistic		Coconut Song

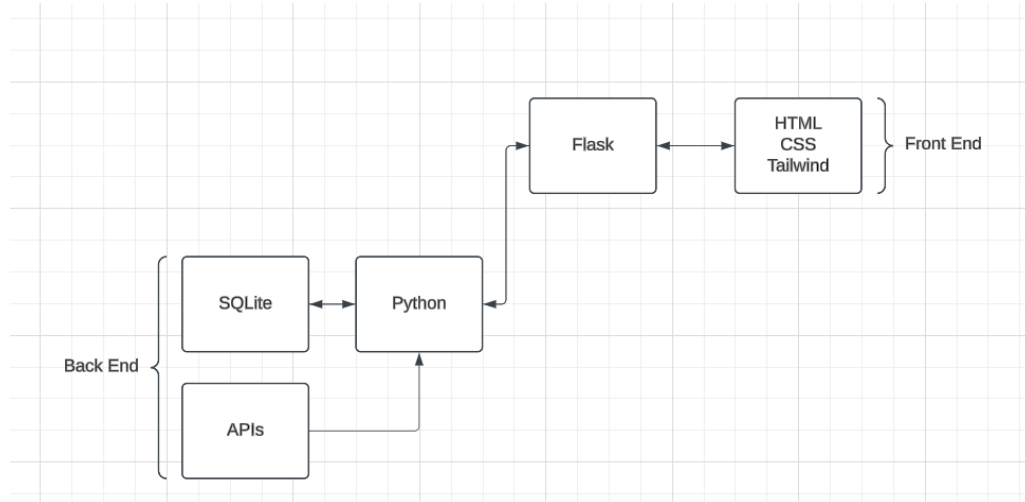
Matches

Recipient UserID	0	1	2
0	False	True	False
1	True	False	True
2	False	True	False

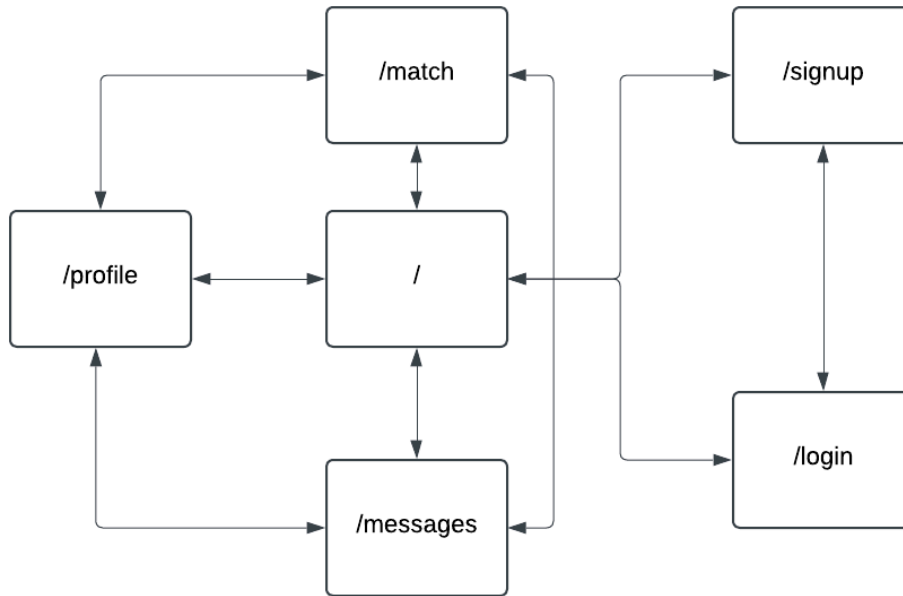
Chat History Table (one for every row in the conversations table)

sender_id	recipient_id	content	date_sent
1	0	"Hi"	10:00
0	1	"Good morning"	10:03
2	0	"Help me"	10:05
2	1	"What's good fam?"	11:50
1	2	"Don't talk to me"	22:05

Component Map:



Site Map:



- / is the home directory where users can view notifications such as messages from other matched users or alerts such as an incomplete profile
- /match is where users can view the profile of other users and accept or reject them. User profiles will not show up unless the user's own profile is completed
- /messages is where users can view their conversations with other matched users
- /profile is where users can view their own profile, update their profile information that is viewed by other users and change their account credentials
- /signup and /login are self-explanatory

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Task Breakdown:

- **Abidur:**
 - Oversees the project and assists other members in their tasks.
 - Organizes the overall structure and ensures the team stays on track with deadlines.
 - Assist members with front-end and back-end components.
 - Primarily responsible for tackling Javascript.
 - Handling Character AI API calls and Topher Mykolyk AI creation
- **Tawab:**
 - Primarily responsible for Database and research.
- **Tahmim:**
 - Responsible for frontend and CSS styling.
 - Integrated API calls to the message database
- **Marco:**
 - Responsible for Python backend and routing.
 - Constructed the database functions for login and profile

Front-end Framework:

We will use Bootstrap as our Front-end Framework. This is mainly due to the fact that the team is well acquainted with it after utilizing it for previous projects, and we have found Bootstrap to be much more suited to our dating application with its inline styling applications. Not only do we want users to find love within each other, but we also hope that they will love the website with its styling!