The PDF Files: Tahmim Hassan, Abidur Rahman, Marco Quintero, Tawab Berri
SoftDev
P02
2025-1-8
TARGET SHIP DATE: 2025-1-15

VERSION 0

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, song on Spotify, and Pokemon. Once their profile is created, devos are sent to the main page where they can accept or reject a preset profile (not actual users). Preset profiles are set to automatically accept any new user. When a user matches with a profile, a chat page will open up, giving the user preset dialogue options with the bot to see if they are truly devo soulmates.

APIS:

Spotify

- No limit
- Nothing like some tunes to vibe while looking for a partner.

PokeAPI

- No limit
- A virtual coding buddy to give a pep talk in the unfortunate event that you are still single.

Program Component Connections:

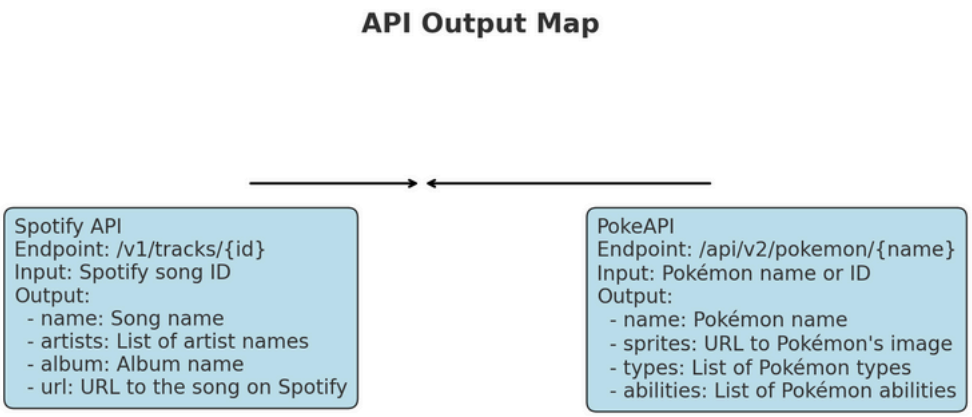
- Flask/Python: connects the routes to different pages and connects the backend databases to the frontend.
- SQLite3: stores information about user info (login information) and all info displayed on user profile (description, preferences) including preset profiles. User dialogue and bot dialogue options are saved on a different table.
- HTML + Jinja + CSS + Tailwind: creates web pages that create a clean and accessible user interface.
- API: retrieves real-time and customized information which is then displayed on the website using Flask and Jinja templating

Database Organization:

The database for the devo dating app is organized into five main tables to manage user data, preset profiles, matches, messages, and dialogues. The Users table stores user-specific information like login credentials, a personal description, and preferences such as favorite coding language, song, and Pokémon. The Preset Profiles table contains similar details for the pre-configured profiles. The Matches table tracks interactions between users and preset profiles, recording whether a match is accepted or rejected. The Messages table stores conversations linked to matches, distinguishing between user and bot messages.

The PDF Files: Tahmim Hassan, Abidur Rahman, Marco Quintero, Tawab Berri
SoftDev
P02
2025-1-8
TARGET SHIP DATE: 2025-1-15

API Output Map/SQL Database:



User Table

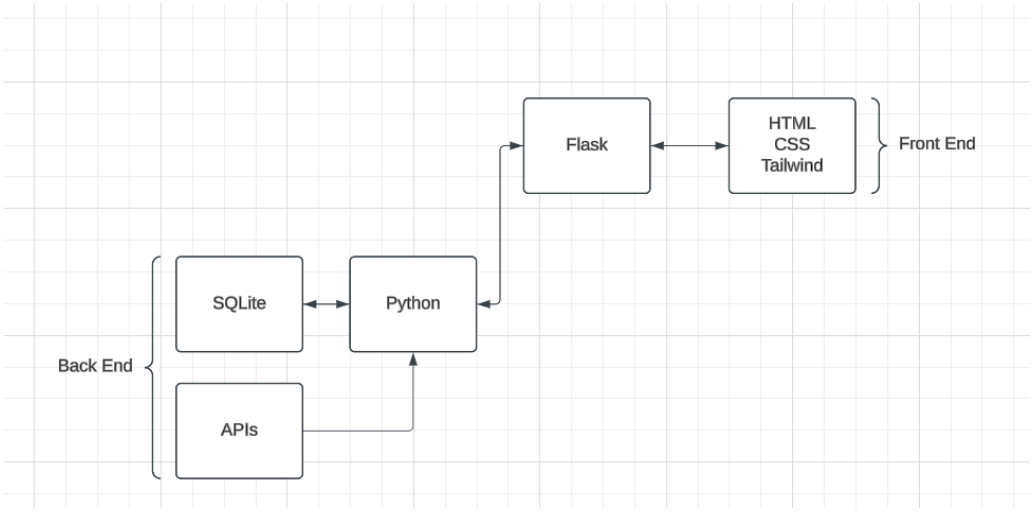
ID	Username	Description	Language	Song
1	user123	Loves coding	Javascript	Happy
2	codeMaster	Lonely but ok	Python	Not Like Us
3	devBrown	Optimistic	C#	Coconut Song

The PDF Files: Tahmim Hassan, Abidur Rahman, Marco Quintero, Tawab Berri
SoftDev
P02
2025-1-8
TARGET SHIP DATE: 2025-1-15

Messages Table

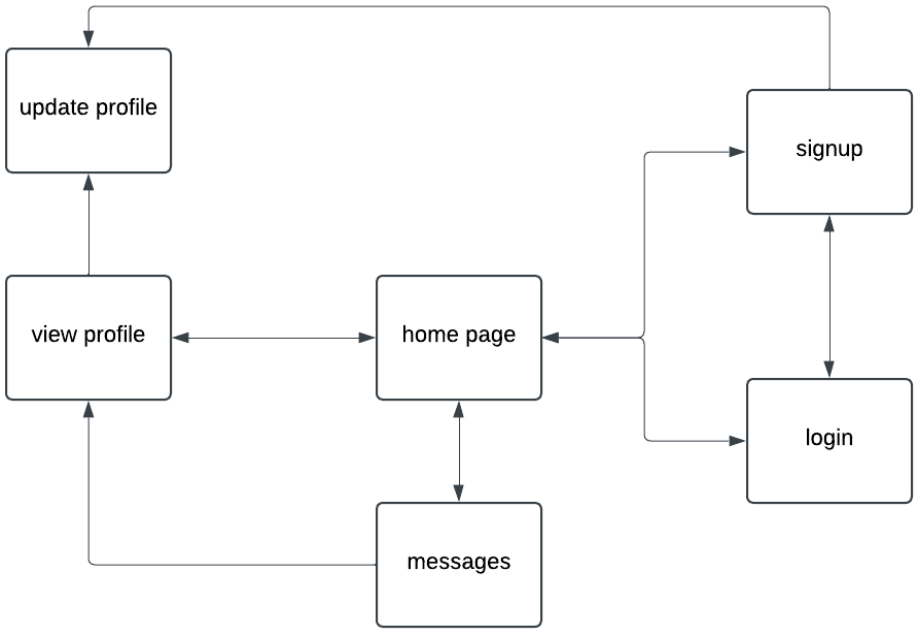
ID	MatchID	Content	Date Sent
1	1	“Hi”	2024-10-01 10:00 AM
2	1	“Good morning”	2024-10-01 10:03 AM
3	2	“Help me”	2024-10-01 10:05 AM

Component Map:



The PDF Files: Tahmim Hassan, Abidur Rahman, Marco Quintero, Tawab Berri
SoftDev
P02
2025-1-8
TARGET SHIP DATE: 2025-1-15

Site Map:



- Home page is where users can view other user profiles and accept or reject them
- Messages is where users can view chat between other matched profiles
- Profile is where users can view their own profile description and preferences
- Update profile is where users can change their description and preferences
- Signup/login are self-explanatory

The PDF Files: Tahmim Hassan, Abidur Rahman, Marco Quintero, Tawab Berri
SoftDev
P02
2025-1-8
TARGET SHIP DATE: 2025-1-15

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 the javascript
- **Tawab:**
  - Primarily responsible for Database and Database functions
- **Tahmim:**
  - Responsible for frontend and CSS styling
- **Marco:**
  - Responsible for Python backend and routing

Front-end Framework:

We will use Tailwind 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 Tailwind 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!