Registration

General

Description

Normal login/register page

Implemented with basic Firebase Auth

Tech Stack

Firebase, Android Studio (Java)

Questionnaire

General

Description

The questionaire will show up every 24 hours to better capture user's emotion

Questionaire are designed for better match making and character creation

User Privacy

Data generated from this questionaire will be only used for match making and will not be stored.

Tech Stack

Python, Flask, Android Studio (Java)

Technical Details

Overview

The world of recommendation systems can be roughly divided into content-based recommendation and collaborative filtering. In content-based recommendation, if a user likes a particular item, similar items are recommended. By contrast, collaborative filtering is based on shared preferences among users. For example, if user A likes apples, bananas, and kiwi, and user B likes apples, bananas, and mango, it's likely that A and B share similar tastes. Therefore, A might enjoy mango, while B might like kiwi.
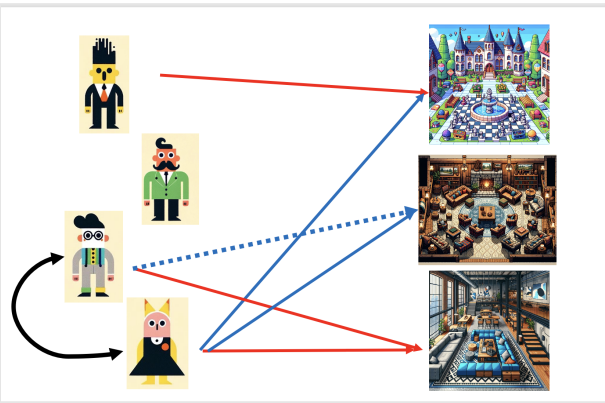
This project delves into the realm of collaborative filtering, applying machine learning and optimization algorithms to demonstrate how Vtalks's mobile app effectively matches each user to a room that would capture their preferences.

Technical Details and Algorithms Used:

In our system, each user's information is encapsulated in a vector representing their mood, expression styles and preferences in various areas like how they view their journey. Similarly, each room's profile is embedded, capturing additional features such as the thematic design of each place. The collaborative filtering model (CF_model) is developed using TensorFlow's sparse tensor and Matrix SoftImpute algorithm. It will be trained in the following logistics: a) loss = mean square loss from actual user feedback, b) regularization parameter = gravity model, c) hyperparameter tuned with a batch size of 1/20th of the entire dataset.

Waiting Page

Recommendation System visualization

General

Description

Loading Page

Provide users more context about this fictional world and loading neccessary info

Logistic

Character introduction page and different lounge will show up in random order while loading

Tech Stack
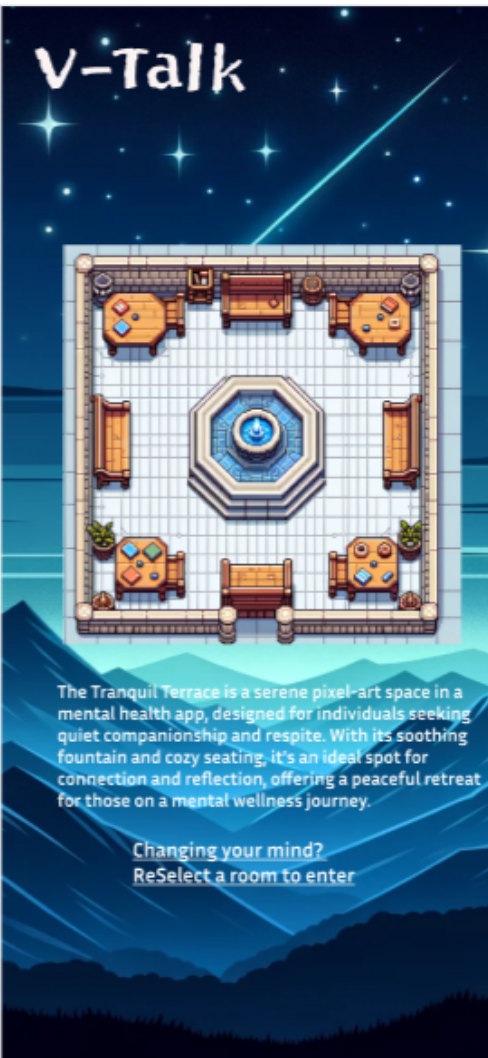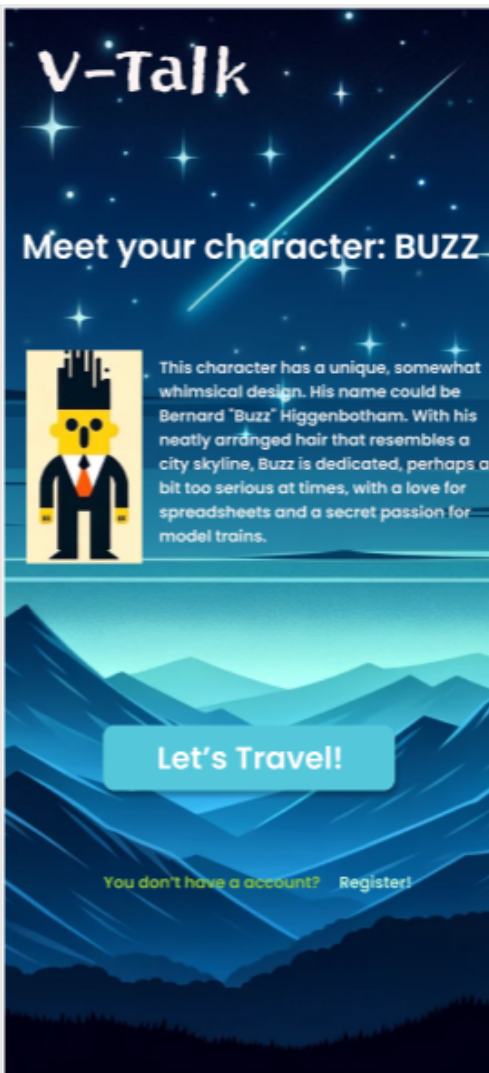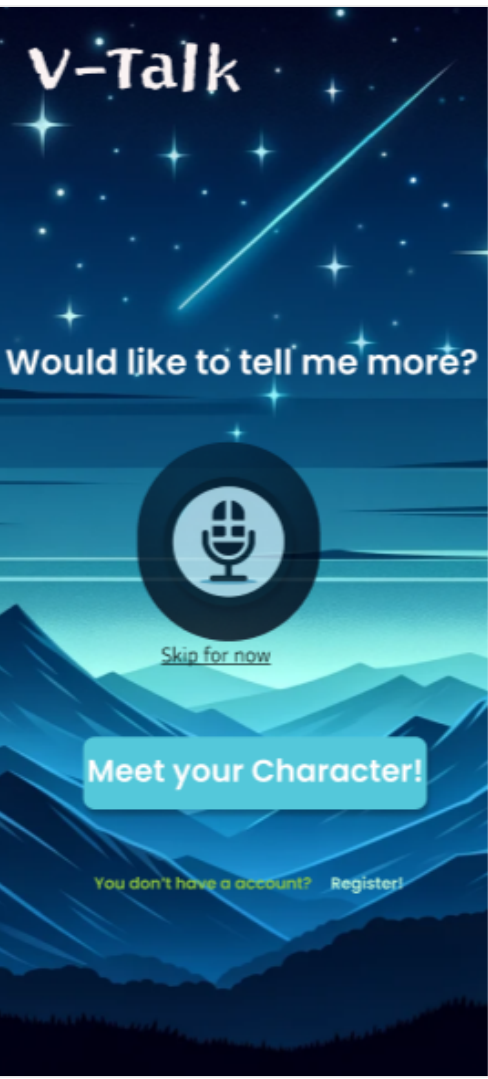
Android Studio (Java), Firebase
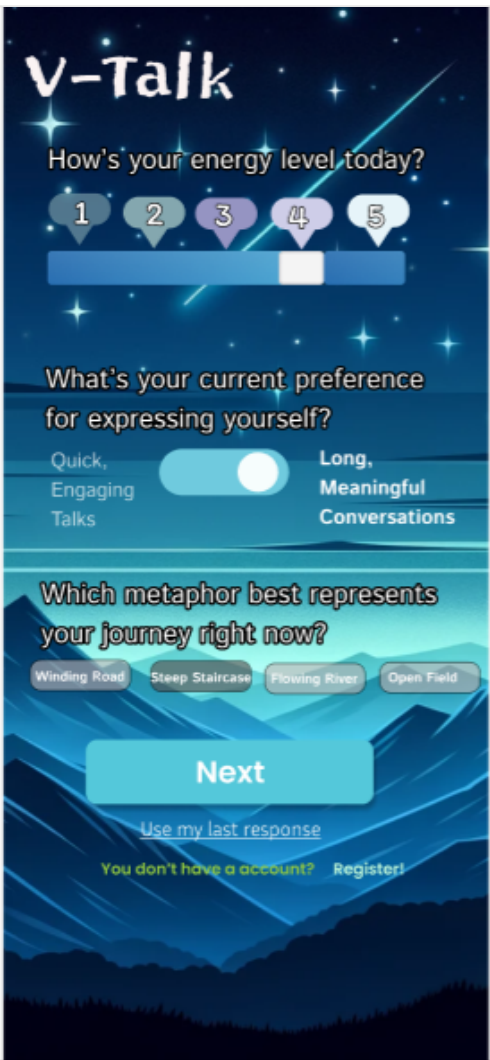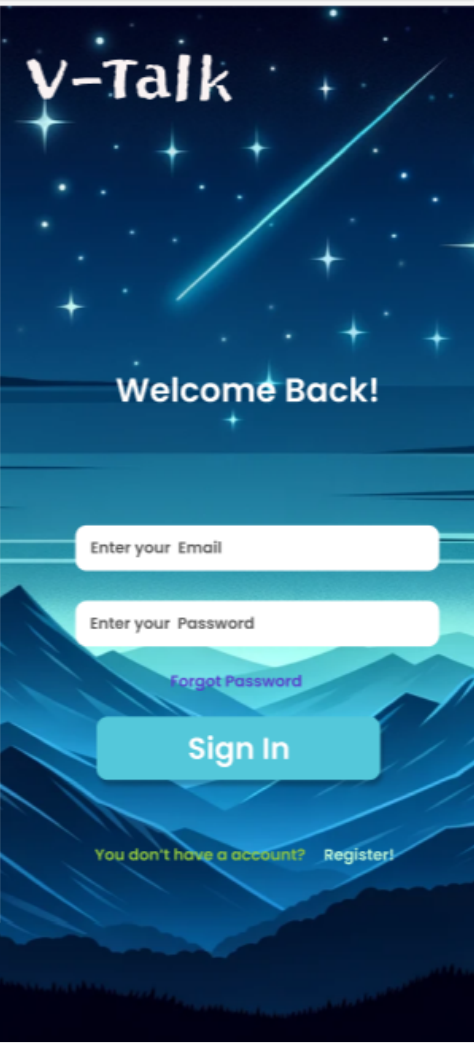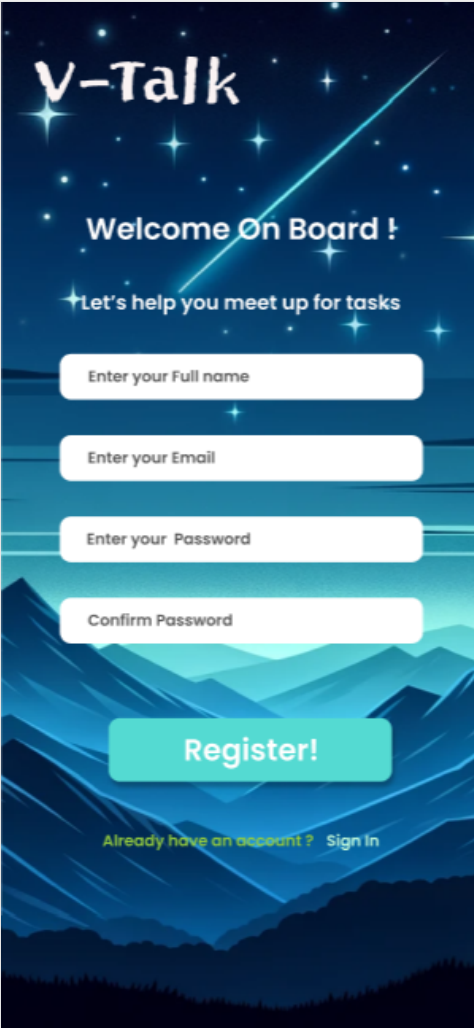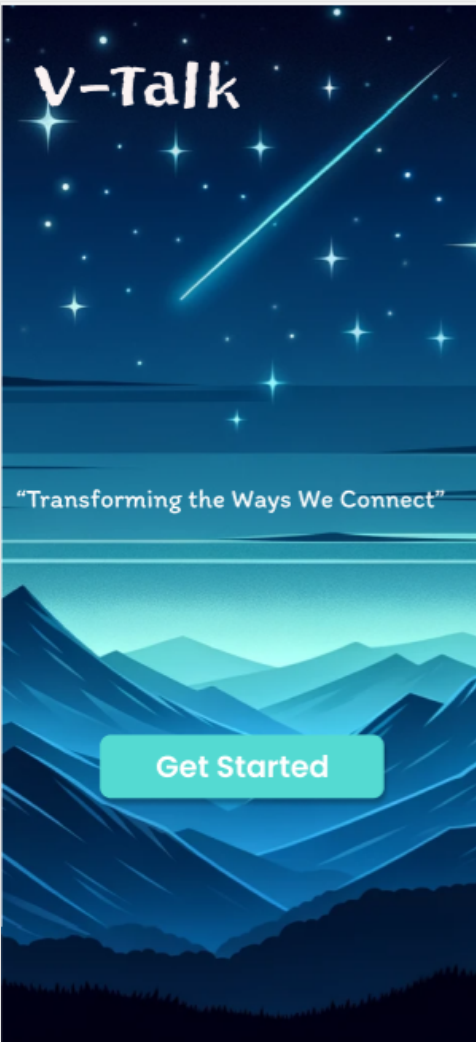
Lounge

General

Description

Main activity space for users to meet with each other

Logistics

An audio chat will start when two character get close to each other

Tech Stack

Android Studio (Java), Firebase, <Audio and Fake Voice Tool (Not Implemented)>

V-Talk

"Transforming the Ways We Connect"

Get Started

V-Talk

Welcome On Board !

Let's help you meet up for tasks

Enter your Full name

Enter your Email

Enter your Password

Confirm Password

Register!

Already have an account ? Sign In

V-Talk

Welcome Back!

Enter your Email

Enter your Password

Forgot Password

Sign In

You don't have an account? Register!

V-Talk

How's your energy level today?

1 2 3 4 5

What's your current preference for expressing yourself?

Quick, Engaging Talks

Long, Meaningful Conversations

Which metaphor best represents your journey right now?

Winding Road   Steep Staircase   Flowing River   Open Field

Next

Use my last response

You don't have an account? Register!

V-Talk

Would like to tell me more?

Skip for now

Meet your Character!

You don't have an account? Register!

V-Talk

Meet your character: BUZZ

This character has a unique, somewhat whimsical design. His name could be Bernard "Buzz" Higgenbotham. With his neatly arranged hair that resembles a city skyline, Buzz is dedicated, perhaps a bit too serious at times, with a love for spreadsheets and a secret passion for model trains.

The Tranquil Terrace is a serene pixel-art space in a mental health app, designed for individuals seeking quiet companionship and respite. With its soothing fountain and cozy seating, it's an ideal spot for conception and reflection, offering a peaceful retreat for those on a mental wellness journey.

Let's Travel!

Changing your mind? ReSelect a room to enter

You don't have an account? Register!

V-Talk

Changing your mind? ReSelect a room to enter

Audio chat will start when two character get close to each other.

You can choose your own character voice