**THE QUIET CONNECTOR**

**Problem Statement:**

Imagine you're an introvert who struggles to initiate conversations or find people who genuinely resonate with your personality. Existing platforms often focus on superficial connections or overwhelming feeds. Design a platform that helps introverts form meaningful, deep, and lasting friendships in a safe and comfortable environment.

**Solution Overview:**

*Personality Based Matching:*

* Every User on creating account, will share their interest (hobbies, favourite books, movies, etc), frequency) and also their age, working professional/Student (as people with common age or occupation are more likely to be friends). User will also set the communication style (Expressive or Reserved, Task-Oriented or People-Oriented, Reflective or Spontaneous, Formal or Informal, Written or Verbal Communication).
* Users can optionally take Big five inventory test for precise matching according to personality trait. Big Five inventory test contain 44 question can score user’s Extraversion, Agreeableness, Conscientiousness, Neuroticism, Openness [[Link](https://backend.fetzer.org/sites/default/files/images/stories/pdf/selfmeasures/Personality-BigFiveInventory.pdf)].
* Now, based on these interests, age and occupation, user will be matched up with other people with common interest, same age group or common occupation. The matched-up users will be displayed on user’s dashboard.
* The algorithm for match-up is going to be simple for now. Let’s say a user A has 4 Interest => Coding, Cricket, Gaming, Video editing. In order for user B to match up with user A:
  + user B must have at least half of the Interest of user A
  + user B must be of same age group (user B age = user A ± 2)
  + user B must share same or similar occupation of user A.
  + user B communication style must match with user A.
* For deeper matching with personality test users has to take Big Five Inventory Quiz. The similarity in personality can be accessed mathematically with Euclidean Distance:

Example:

UserA = {Openness = 0.8, Conscientiousness = 0.6, Extraversion = 0.2, Agreeableness = 0.7, Neuroticism = 0.4}

UserB = {Openness = 0.7, Conscientiousness = 0.5, Extraversion = 0.2, Agreeableness = 0.8, Neuroticism = 0.3}

If the Euclidean distance is greater than 0.5, then UserA and UserB are similar.