

CIS4813 Web Applications Programming: Semester Project | Project Proposal

1. Student's Registration Information

- **Full Names & IDs:**
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- **Course Name:** COP4813
- **Instructor Name:** Dr Ahsan Abdullah
- **Date of Submission:** 06-11-2025

1. Title and Team Members

- **Friend Finder** (Clifton Strengths Assessment)
- **Team Members:**
 - Carter Susi
 - Albert Velazques
 - Anika Guevarra

2. Problem Statement

- Many people struggle to form meaningful friendships when entering new environments such as relocating to a different city, starting at a new school, or beginning a new job.
- Traditional social networking platforms focus primarily on existing connections rather than helping users discover compatible individuals based on personality traits and shared interests.
- Our platform aims to fill the gap for people seeking genuine friendships with like-minded individuals who share similar values, communication styles, and lifestyle preferences.

3. Proposed Features and Tech Stack

- **Features:**

- **Personality Quiz:** Clifton Strengths Assessment quiz on sign up. Ability to retake the test once per month.
- **User Profiles:** Each user has a public profile match with their personality quiz results.
- **Discovery Page:** Discover new people/groups/clubs for people of similar results.

- **Tech Stack:**

- **Front-end:** React js/ts for a modern app like design
- **Backend:** Python
 - FastAPI for simple non-verbose API routing.
 - Numpy/Pandas/Scikit for performing large dataset similarity searches.
- **Database:** PostgreSQL for user auth and management.

4. Target Users and Benefits

- **New Residents:** People who have recently moved to a new city and need to build a social network from scratch
- **Students:** College students, graduate students, or those attending new educational institutions seeking study partners and social connections
- **New Employees:** Professionals starting new jobs who want to connect with colleagues or locals outside of work