**ACME16-PSY-FullStackApp**

Project Description and Clarification

Your Sponsor



Sponsor logo (if any)

**Your Team Name & Team Logo (pick something reasonable)**

(Provide a list of team members)

**Note**: Recall that this writing assignment says:

Length = 2+ pages text plus appendices as needed. Cover page, table of contents, glossary, references, pictures, tables, images, diagrams do not count for the 2+ pages text.

Posted as a single self‐contained file (no links to outside resources.)

Posted as a PDF file.

Typed single‐spaced.

Typed with black text.

Typed with #11 font size.

Typed using Arial font.

Typed with one inch margins on sides, top and bottom.

**Please erase this page in your final document.**

# Introduction

Give a detailed summary of the project background and motivation.

Introduce your project problem. Keep this discussion brief. Make sure there is not much overlap with the “Project Overview” section.

# Background and Related Work

Before we assess current industry researchers in our domain, we need to establish the domain in which our project is going to operate. We define the domain as “interactive personality assessments and self-monitoring tools used for clinical therapy.” The conceptual foundation of this project is based on serval key studies about personality assessment.

The Person in Context Assessment (PICA) provides the project’s main structure and is the first foundational work. PICA is an application of social cognitive theory, specifically Cervone’s model. PICA evaluates personality traits in the context of social interactions, focusing on variables like beliefs, goals, self-schema, and temperament. The Qualtrics survey report and web-based app are structured with PICA as the framework [1].

The Relational Self-Schema Measure (RSSM) is the second piece of relevant work. RSSM looks at how people describe themselves with the four or six most important or frequently interact or think about. PICA does not directly integrate RSSM but utilizes the concepts of RSSM to understand what relational context impacts a person’s self-concept. The project’s depth of personality evaluations is further enhanced by incorporating relational schema concepts. The project provides personalized feedback not just based on the individual but also considering the relation of key figures in the individual’s life [1].

Finally, the BIS/BAS scales, which measure behavioral inhibition and behavioral activation respectively, is the third piece of key influence. Both scales regulate how people respond to potential incentives and punishments. This makes both useful for understanding motivational systems. The principles of BIS/BAS in the feedback that it generates are shown though the web-based application, keeping track of participants’ daily emotional events and assists them in understanding how their personality traits influence their responses to different stimuli [1].

Although PICA serves as the core personality assessment model in our project, the additional insights derived from RSSM and BIS/BAS help us better understand overall personality and behavior. This gives us and clinicians a clearer picture of how different people behave and manage their emotions.

Several technical skills and tools will be required to complete this project. Python is the main language used to power the core functionality of the Qualtrics survey report generator and web-based monitoring app. Furthermore, since the project has been deployed on Python Anywhere, we will need to continue using and managing the web application using that platform. In order to manage the potential vast amounts of personality and behavioral data that our app collects, we will need to be skilled in MongoDB. As for the frontend, we will need proficiency with the relevant knowledge and technology related to web application development. Finally, integrating AI-driven clustering approaches using ChatGPT will require the learning of building applications with generative AI, which will improve the app’s ability to provide users with even more personalized insights and suggestions.

# Project Overview

Describe your project problem in detail and summarize the project objectives.

Provide a detailed description of the goals and desired outcomes. You should discuss the intended outcomes of the project with your mentor and summarize them here.

This section should be detailed enough to show that your team has a clear understanding of the project objectives and outcomes. Please plan on having 1+ page text on “Project Overview”.

# Client and Stakeholder Identification and Preferences

Identify your clients and stakeholders (In CptS 421/423 your industry sponsor and mentor is your primary client, however many stakeholders also exist beyond the sponsoring company, mentor and co-mentor. A stakeholder is a person or role that is affected by the system that you will develop in some way, so even a description of any expected future users should be included.)

Briefly describe the needs and preferences of your clients and stakeholders.

# Glossary

Define technical terms used in the document.

# References

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| [1] | W. D. Scott, S. Paup and C. Kirchhoff, "Clinical Application of Social Cognitive Theory: A Novel Personality Assessment Procedure and a Case Study of Personality Coherence," *European Journal of Personality,* vol. 36, pp. 371-390, 2022. |