

Suicide Prevention Utilizing Big Data Solutions

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Context and Goals

Suicide continues to plague service members and veterans alike. The greatest threat of suicide exists during the transitional period between being a service member and becoming a veteran. The Department of Defense continues to call for high level solutions and program implementations that can address these issues.

I currently lack the skills needed to fully execute this type of program, but I would like to use this opportunity to start this during this homework assignment. I would like to apply for the grant RFA-MH-21-111 (Service-Ready Tools for Identification, Prevention, and Treatment of Individuals at Risk for Suicide) that has a closing date of June 2022 if this project is feasible and meets the needs of DoD.

This project aims to provide a small portion of a larger code which provides information for psychiatric and psychological practitioners within the Armed Forces and VA to allow transition of care for Soldiers, Airmen, Sailors, and Marines that may or may not have preexisting conditions. The proposed specific condition of this code will be to enroll new users to the application, provide input of symptoms, link providers, provide emergent contact information, and file symptomology.

Technical Solution Classes

This code will consist of the following classes:

- DoD SM information
- VA Veteran Information
- Condition Information
- Client Symptom Input
- Provider View
- Emergent Exceptions
- Non-Emergent Dependencies
- Provider Recommendations
- Wellness Information
- Location Information

Acronym List

AD = Active Duty
 AFR = Air Force Reserves
 AFSC = Air Force Specialty Code (Air Force, Space Force)
 AGR = Army Guard Reserve
 ANG = Air National Guard
 ARNG = Army National Guard
 Branch = Army, Marine Corps, Air Force, Navy, Space Force, Coast Guard
 CoC = Chain of Command
 DIEMS = Date of Initial Entry to Military Service
 DOB = Date of Birth
 DoD = Department of Defense
 DoDID = Department of Defense Identification Number
 ETS = Expiration of Term of Service
 MFR – Marine Forces Reserve
 MOS = Military Occupational Specialty (Marines and Soldiers)
 MST = Military Sexual Trauma
 MVP = Million Veteran Program
 NEC = Navy Enlisted Classifications (Navy, Coast Guard)
 NOK = Next of Kin
 OMPF = Official Military Personnel File
 PTSD = Post Traumatic Stress Disorder
 SCD = Service Connected Disability
 SGLI = Servicemembers Group Life Insurance
 SM = Service Member
 SPN = Separation Program Number
 USNR = United States Navy Reserve
 VA = Veteran's Affairs

Flow Chart

