***Software Requirement Specification***

***Document***

*On*

**DEFENDR**

**OUTLINE FOR PROJECT**

* Problem Statement
* Solution Approach
* Software Requirements
* Technical Requirements
* Resource Requirements

**PROBLEM STATEMENT:**

* **The National Family Health Survey (NFHS-4)**suggests that 30 percent women in India in the age group of 15-49 have experienced physical violence since the age of 15.
* The report further reveals that 6 percent women in the same age group have experienced sexual violence at least once in their lifetime.
* About 31 percent of married women have experienced physical, sexual or emotional violence by their spouses.
* Violence/Crime against women is increasing every year. According to **NCRB report**,**it has reached a peak in 2018.** **Close to 3.78 lakh cases of crimes against women were recorded in 2018**, the highest since gender-wise classifications were initiated in 1992 by the NCRB.
* In recent years, more than 560 cases of rape reported in Delhi. Violence against Indian women is increasing and has widespread and deep roots in social psyche.
* In India**,**the National Commission for Women (NCW) has recorded a more than **twofold rise in gender-based violence.**
* 1 in 3 women and girls experience physical or sexual violence in their lifetime, most frequently by an intimate partner.
* 200 million women and girls have undergone female genital mutilation (FGM).
* 71% of all human trafficking victims worldwide are women and girls, and 3 out of 4 of these women and girls are sexually exploited.
* As per NCRB data Majority of cases under crime against women under IPC were registered under cruelty by husband or his relatives (30.9%), followed by assault on women with intent to outrage her modesty, kidnapping & abduction of women and rape.
* 4% of cybercrime cases registered were for the motive of fraud followed by sexual exploitation.

**SOLUTION APPROACH**

To try to solve and minimize all these issues faced by women or any individual, we have created an application built using Artificial intelligence and Machine learning, to provide a platform which automatically triggers an Alert to respected helpline department as well as his/her family when this kind of activities happens. DEFENDR is an app which provides safety for any individual who is in danger. It utilize the power of AI to provide an interface which can use human voices to help identify the threat around someone. It triggers the alert message to emergency numbers like Police, Women Safety helplines, and Family members to know that their child is in danger. It uses the speech recognition to identify the threat and process that audio clip to confirm whether a particular noise is actual a threatful situation or is it some random noise.

**Software Requirements**

This section gives the basic idea of how our app looks like? what is the structure of the app, how each module is connected with each other. This will contain all the UML Diagrams to show the work flow of the app.

**Technical Requirements:**

Frontend Technologies - Android Studio or any other Mobile app making Application

Backend Technologies - python, java

Database - SQL,

**Resource Requirements:**