

## Project Initialization and Planning Phase

Date	15 March 2024
Team ID	740678
Project Name	Panic Disorder Detection
Maximum Marks	3 Marks

### Define Problem Statements (Customer Problem Statement Template):

Panic disorder is a debilitating mental health condition characterized by recurrent and unexpected panic attacks, which can significantly impair an individual's daily functioning and quality of life. Despite its prevalence, panic disorder often goes undiagnosed or is misdiagnosed due to the overlap of its symptoms with other medical and psychiatric conditions. Early and accurate detection is crucial for effective treatment and better patient outcomes

## PANIC DISORDER

### Overview

- 01** Panic disorder is a type of anxiety disorder. It causes panic attacks, which are sudden feelings of terror when there is no real danger.
- 02** Panic attack is a sudden episode of intense fear that triggers severe physical reactions when there is no real danger or apparent cause.
- 03** When panic attacks occur, you might think you're losing control, having a heart attack or even dying.
- 04** Many people have just one or two panic attacks in their lifetime but if you've had recurrent, unexpected panic attacks and in constant fear of another attack, you may have a condition called panic disorder.
- 05** Panic attack can strike at any time; when you're driving a car, at the mall, sound asleep or in the middle of a business meeting.

The diagram illustrates the architecture of the NTU Medical Platform, showing the flow of data and communication between Patients, Physicians and medical experts team, and the central platform.

**Patients:** Represented by an icon of a person with a heart rate monitor and a pill bottle. They provide **Patient personal information**, **Collected health data**, and **Collected Google Form survey** data.

**Physicians and medical experts team:** Represented by an icon of three medical professionals. They engage in **Bi-directional communication and real-time health assistance** with the platform and perform **Patient health monitoring**.

**NTU MEDICAL PLATFORM:** The central hub, represented by an icon of a computer monitor, database, and checklist. It receives data from the Internet and provides **Health prediction** to the Prediction model server.

**Internet:** Represented by a globe icon, facilitating data exchange between the Patients, the Platform, and the Prediction model server.

**Prediction model server:** Represented by an icon of a neural network, it receives data from the Internet and provides **Health prediction** to the Platform.

**Platform Components:**

- Website Server
- Database
- Panic monitoring periodic task

Problem Statement (PS)	I am (Patient)	I'm trying to	But	Because	Which makes me feel
PS-1	Panic disorder is type of anxiety disorder it causes panic attacks	Improve by health condition by detecting the panic attacks.	It is impossible to detect	Because panic attack is a unexpectedly happening disorder anxiety.	Its been hard to facing that problem