

## Project Initialization and Planning Phase

|               |                                                                           |
|---------------|---------------------------------------------------------------------------|
| Date          | 19 June 2024                                                              |
| Team ID       | 739780                                                                    |
| Project Name  | Predictive Pulse: Harnessing Machine Learning For Blood Pressure Analysis |
| Maximum Marks | 3 Marks                                                                   |

### Define Problem Statement:

Predictive Pulse is an innovative project harnessing machine learning algorithms to analyze and predict blood pressure fluctuations. This cutting-edge technology integrates seamlessly with wearable devices or health monitoring systems, continuously collecting real-time physiological data like heart rate, activity levels, and other pertinent biometrics. This data fuels advanced machine learning models, facilitating the analysis of patterns and trends to forecast changes in blood pressure.

| Problem Statement (PS) | I am (Customer) | I'm trying to | But | Because | Which makes me feel |
|------------------------|-----------------|---------------|-----|---------|---------------------|
|------------------------|-----------------|---------------|-----|---------|---------------------|

|      |                                                    |                                                                                             |                                                                    |                                                                                                           |                                                                                                                   |
|------|----------------------------------------------------|---------------------------------------------------------------------------------------------|--------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|
| PS-1 | customer using wearable health monitoring systems. | accurately predict fluctuations in my blood pressure based on real-time physiological data. | the current systems do not provide reliable or timely predictions. | they lack advanced machine learning models that can analyse complex patterns and trends in my biometrics. | uncertain about my health and concerned about potential risks that I could prevent with more precise forecasting. |
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