Project Initialization and Planning Phase

Date	08 August 2025
Skill Wallet ID	**SWUID20250188325**
Project Name	Predictive Pulse: Harnessing Machine Learning for Blood Pressure Analysis
Maximum Marks	3 Marks

Define Problem Statements (User/Patient Problem Statement):

The current **hypertension assessment process** challenges individuals, impacting their ability to monitor and manage their cardiovascular health effectively. Patients often lack immediate access to quick and reliable blood pressure assessments, leading to delayed detection of hypertension stages. These delays can result in late diagnosis, higher health risks, and increased strain on healthcare systems.To improve accessibility and encourage proactive health management, we aim to address these pain points by creating a fast, accurate, and user-friendly hypertension prediction tool.
By understanding users' needs and delivering instant results through a web application, we can improve early detection rates and support healthier lifestyles.
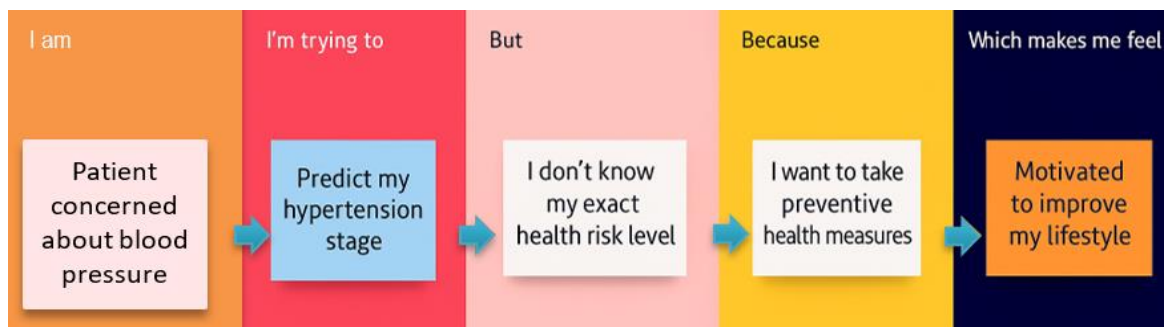
Problem Statement (PS)	I am (User/Patient)	I'm trying to	But	Because	Which makes me feel
PS-1	An adult individual concerned about their blood pressure levels	Quickly check my hypertension stage	I have no access to immediate medical consultation	I live in a remote area and cannot easily reach healthcare facilities	Concerned about potential high blood pressure and health risks
PS-2	A healthcare worker	Assess a patient's hypertension stage quickly	Manual methods are time-consuming	Blood pressure assessment requires multiple manual steps	Frustrated and less efficient in providing timely care