Project Design Phase-I
Proposed Solution Template

Date	20 October 2023
Team ID	Team-593030
Project Name	Diabetes Prediction Using Machine Learning
Maximum Marks	2 Marks

Proposed Solution Template:

Project team shall fill the following information in proposed solution template.

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	The objective is to develop a Machine learning model to accurately predict if someone is at risk of or already has diabetes. Diabetes is a serious and common health condition that can cause problems if not treated early. Detecting it early can make a big difference in people's lives. Machine learning can help identify those at risk and assist doctors in providing the right care on time.
2.	Idea / Solution description	Our solution is a user- friendly that uses machine learning to predict an individual's risk of diabetes based on their health and lifestyle data. It provides clear risk assessments and explanations. We prioritize data privacy and regulatory compliance. Continuous updates ensure accuracy, aiding early intervention and improved healthcare outcomes.
3.	Novelty / Uniqueness	The uniqueness of our solution lies in its combination of data privacy, and adaptability. It provides clear explanations for predictions, ensuring user trust. Prioritizing privacy and compliance, it safeguards individuals' data. Continuous learning and updates keep the system accurate and relevant. With a user-centric approach and early intervention focus, it makes a substantial impact in diabetes care and prevention.
4.	Social Impact / Customer Satisfaction	Our solution has a positive social impact by improving health outcomes, empowering individuals, and increasing healthcare efficiency. It prioritizes data security, enhancing trust and satisfaction. Its transparency and user-friendliness foster trust in AI-powered healthcare solutions, ultimately benefiting both patients and healthcare providers.

5.	Business Model (Revenue Model)	Our revenue model is based on a subscription-based system for healthcare providers and institutions, offering access to our diabetes prediction platform. We also provide a freemium model for individual users, with advanced features available through a paid subscription. Additionally, we may explore partnerships with insurance companies for premium services that support risk assessment and preventive care, creating a new revenue stream. Data anonymization and aggregation for research institutions or pharmaceutical companies could be another source of income. Customization and integration services for healthcare systems can also be offered at an additional cost.

6.	Scalability of the Solution	The scalability of the proposed solution for potato leaf disease classification appears promising. Leveraging machine learning and image processing techniques, it can accommodate a growing dataset of potato leaf images, making it capable of handling increased sample sizes without a significant increase in computational complexity. Additionally, the modular design allows for easy integration of additional disease types and improvements in accuracy as more data becomes available. This scalability is critical for adapting to changing agricultural conditions and continuously improving disease detection.