

Project Design Phase-I
Proposed Solution Template

Date	07 November 2023
Team ID	PNT2022TMIDxxxxxx
Project Name	Depression: A Common Mental Disorder
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 prevalent issue addressed by this proposed solution revolves around the identification of depression patterns in users of our application. Many individuals may struggle with mental health challenges, and these issues often manifest in communication patterns, especially through digital channels. Recognizing and addressing these signs in a timely manner can be challenging, and the lack of early intervention can lead to severe consequences. The goal is to proactively detect signs of depression in users through their chat and search patterns, enabling timely and personalized interventions to improve mental well-being.
2.	Idea / Solution description	The proposed solution involves the development of a plugin that users can voluntarily install on their devices. This plugin will monitor their chat interactions and search behaviors, employing advanced algorithms to identify potential signs of depression. The analysis will enable the application to recommend tailored self-help measures to users, fostering a proactive approach to mental health care. In extreme cases, where the risk is significant, the plugin will have the capability to alert authorized contacts, such as friends or family, and even trigger an immediate connection to a government-authorized suicide hotline. This comprehensive approach aims to provide timely support and resources to users in need.
3.	Novelty / Uniqueness	The uniqueness of this solution lies in its integration of cutting- edge technology for the early detection of depression through user-generated data. By analyzing chat and search patterns, the plugin offers a novel approach to identifying mental health concerns. Additionally, the government authorization aspect adds a layer of credibility and trust, addressing privacy concerns by ensuring that the monitoring is conducted responsibly and ethically. The real-time connection to a suicide hotline further distinguishes this solution, as it provides immediate assistance in critical situations,

		potentially saving lives.
4.	Social Impact / Customer Satisfaction	The social impact of this solution is substantial, aiming to contribute positively to mental health awareness and intervention. By identifying and addressing depression early on, the application can potentially reduce the severity of mental health challenges and improve overall well-being. The incorporation of government authorization enhances user trust, emphasizing the commitment to privacy and responsible data usage. The proactive nature of the solution, coupled with personalized recommendations, contributes to high customer satisfaction as users feel supported and understood in their mental health journey.
5.	Business Model (Revenue Model)	The proposed revenue model involves a combination of freemium and subscription-based services. The core monitoring and analysis features for identifying depression patterns will be offered for free to all users, ensuring accessibility and promoting the overall mission of mental health awareness. Premium subscription plans can provide additional features such as more advanced analysis, personalized mental health resources, and priority access to support services. Partnerships with mental health organizations and government agencies can also be explored for additional funding and support.
6.	Scalability of the Solution	The solution is designed with scalability in mind, as it can be integrated into various platforms and devices. The plugin architecture allows for easy adaptation to different operating systems and applications. The use of advanced algorithms ensures efficient processing of large datasets, enabling the system to scale with an increasing user base. Collaborations with mental health professionals, technology experts, and government agencies can further enhance scalability by incorporating diverse perspectives and resources into the ongoing development and improvement of the solution.