<p style="text-align: center;">Project Design Phase-I
Proposed Solu on Template</p>

Date	8 October 2023
Team ID	
Project Name	Lip Reading Using Deep Learning
Maximum Marks	2 Marks

Proposed Solu on Template:

Project team shall fill the following informa on in proposed solu on template.

S.No.	Parameter	Descrip on
1.	Problem Statement (Problem to be solved)	The problem to be solved is the challenge faced by individuals with hearing impairments and professionals working with audio in noisy environments. Conven onal speech recogni on systems struggle in such condi ons, and obtaining transcribed audio data is expensive and me-consuming. The problem is to provide an accurate, efficient, and accessible solu on for transcribing spoken language solely from video data, catering to the needs of these users.
2.	Idea / Solu on descrip on	The idea is to develop an end-to-end machine learning solu on that leverages deep learning algorithms, such as neural networks, to transcribe spoken language from videos.
3.	Novelty / Uniqueness	The uniqueness of this project lies in its focus on lip reading and video-based speech transcrip on. The solu on's novelty stems from the deep learning techniques used and the poten al to provide real- me transcrip on to a broad audience.
4.	Social Impact / Customer Sa sfac on	The project's social impact lies in its poten al to benefit individuals with hearing impairments and professionals working in challenging audio environments.

5.	Business Model (Revenue Model)	The business model can include various revenue streams, such as: Freemium Model: Offering a basic version for free and premium features at a subscrip on fee. Pay-Per-Use: Charging users for transcrip on services on a per-use basis.
6.	Scalability of the Solu on	The solu on is designed to be scalable, capable of accommoda ng a growing user base and an increasing number of video uploads. Scalability is achieved through efficient infrastructure and op mized deep learning models.