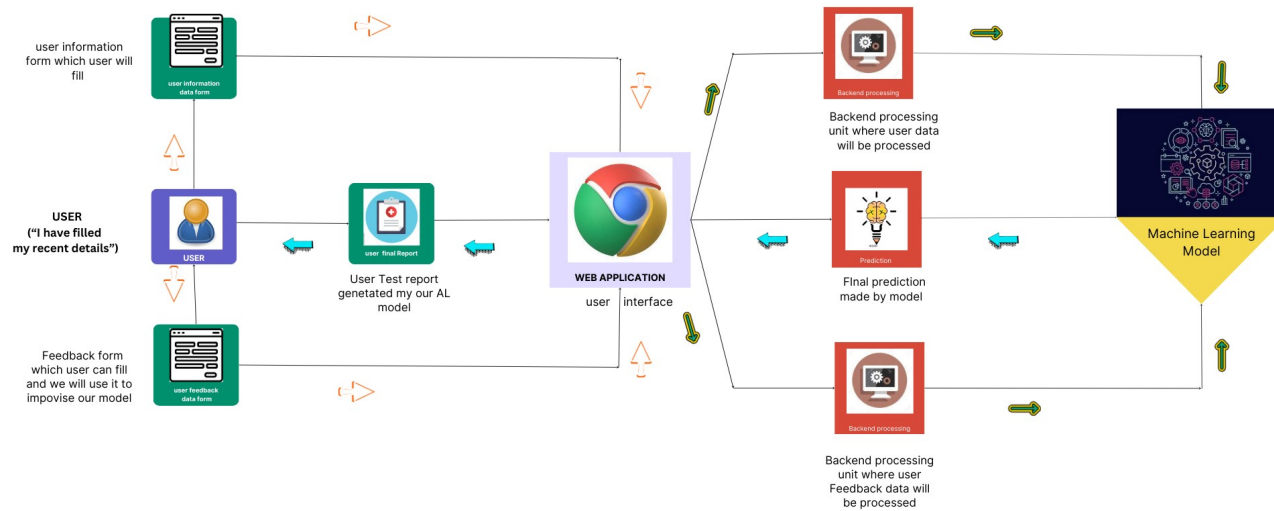


Project Design Phase-II Technology Stack (Architecture & Stack)

Date	27th October 2023
Team ID	TEAM-591549
Project Name	Project - AudiometricAI: Transforming Hearing Test Diagnosis Through Machine Learning
Maximum Marks	4 Marks

Technical Architecture:



Guidelines:

1. Include all the processes (As an application logic / Technology Block)
2. Provide infrastructural demarcation (Local / Cloud)
3. Indicate external interfaces (third party API's etc.)
4. Indicate Data Storage components / services
5. Indicate interface to machine learning models (if applicable)

Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	Web App	Flask/Streamlit
2.	Application Logic-1	The data input provided by the user is preprocessed and given to the model as input .	Python
3.	Application Logic-2	The output received from the model is processed and the test report is made and returned to the user.	Python/ChatGPT
4.	External API-1	Converting text to speech and vise-versa	Text-to-speech api
5.	External API-2	For supporting multiple languages	Translation API
6.	Machine Learning Model	Hearing test result prediction.	ML models like SVM, logistic regression etc.
7.	Deployment	Application hosting.	Google Cloud/localhost

Table-2: Application Characteristics:

S.N o	Characteristics	Description	Technology
1.	Security Implementations	List all the security / access controls implemented, use of firewalls etc.	Inbuilt in Google Cloud

S.N o	Characteristics	Description	Technology
2.	Performance	Design consideration for the performance of the application.	Ability of the model to generate proper reports.