

# Project Synopsis/Project Concept Document

## Team 14

Project Number	14
Project Title	Gemini API integrated with HTML UI
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Client	Patenti Technology Solutions(OPC) Private Limited

### Description

To develop a web interface for a chatbot utilizing Google's Gemini LLM through an API service. The web application should accept text prompts from users and showcase the corresponding responses generated by Gemini. Additionally, the prompts must be saved in a database. The chatbot is focused on COVID 19 and gives responses only for a certain context.

### Profile of Users

It caters to different groups: the public, healthcare professionals, government officials, and businesses. It offers information on symptoms, prevention, and guidelines for the public. Healthcare professionals get treatment advice and research updates. Government agencies access infection rates and vaccination progress. Businesses get help with workplace safety and reopening guidelines. The users profile also includes a system admin who is responsible for the backend management of the system.

## Usage Model and Diagrams (if any)

- **User Authentication:** Ensures secure access by implementing a user authentication system.
- **Prompt Submission:** Users can submit prompts for processing through the system. The prompts shall be saved in a text file.
- **Google Gemini API Integration:** Utilizes Google Gemini API to generate corresponding outputs based on user prompts.
- **Chatbot interaction :** Utilizing NLP , the outputs of the chatbot will be synthesized according to context and prior conversation history to optimize response accuracy.
- **Database Storage:** Stores user prompts and corresponding outputs in a database for future analysis. The design shall be done using MySQL.
- **Context Filtering:** The chatbot will be filtered to give responses to prompts related to COVID 19 and will give an error message for the prompts considered irrelevant.

