Project Initialization and Planning Phase

Date	08 July 2024
Team ID	SWTID1720268169
Project Title	Inquisitive: A Multilingual Ai Question Generator
Maximum Marks	3 Marks

Project Proposal (Proposed Solution):

The proposal report aims to enhance NewsSphere's global news engagement by developing a multilingual AI-powered question generator. This tool calls the PaLM API to generate diverse and contextually relevant questions based on news articles. To ensure accessibility and accuracy, the solution incorporates the Translation API to detect the language of the content, translate it into English, if necessary, generate questions, and then translate the questions back into the original language.

This approach promises to streamline the quiz creation process, address language barriers, and improve overall user engagement across multiple languages. Key features include seamless language detection, translation, and question generation to provide a culturally sensitive and interactive experience for client's global audience.

Project Overview	
Objective	Develop an AI-driven question generator for client to create relevant questions across multiple languages.
Scope	Implement language detection, translation, and question generation using Generative models and Machine translation services.
Problem Statement	
Description	Manual quiz creation is inefficient, inconsistent, and lacks cultural sensitivity.
Impact	Solving this will enhance efficiency, accuracy, and user engagement across diverse languages.

Proposed Solution	

Approach	➢ Employ the PaLM API to generate diverse and relevant questions based on news articles.
	 ➢ Integrate the Translation API to handle multilingual content.
	  i. Detect the article's language
	  ii. Translate to English for question generation
	  iii. Translate the questions back into the original language.

Key Features	➢ Provides automated language detection, seamless translation, and generation of contextually appropriate questions. ➢ Ensures cultural sensitivity and accuracy across multiple languages. ➢ Streamlines the quiz creation process and enhancing user engagement.

Resource Requirements

Resource Type	Description	Specification/Allocation
Hardware		
Computing Resources	CPU/GPU specifications, number of cores	Standard physical or virtual machine with 2 vCPUs
Memory	RAM specifications	8 GB
Storage	Disk space for data, and logs	500 GB SSD
Software		
Frameworks	Python frameworks	Streamlit
Libraries	Additional libraries	Numpy, google-genai, pandas, dotenv
Development Environment	IDE, version control	Jupyter Notebook / VSCode , Git
Data		
Data	Source, size, format	Any news article or text corpus in plain text format.