# Project Proposal (Proposed Solution) Report

## Project Initialization and Planning Phase

Date: 15 March 2024

Team ID: PNT2022TMID124356

Project Title: GeminiDecode: Multilanguage Document Extraction by Gemini Pro

Maximum Marks: 3 Marks

## Project Overview

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| --- | --- | --- | --- |
| Objective | Scope | Description | Impact |
| The primary objective is to create a multilingual document extraction application using the Google Gemini Pro Vision API, ensuring efficient and accurate extraction of relevant information from diverse documents. | The project involves developing an application that processes documents in various languages, extracts specific information accurately, and presents it in a user-friendly interface while ensuring security, privacy, and scalability. | The project addresses the challenge of extracting relevant information from multilingual documents such as invoices, contracts, legal agreements, and research papers. It aims to improve decision-making, compliance, and productivity by automating the extraction process. | Enhanced productivity by automating document extraction, allowing employees to focus on higher-value tasks. Global reach by eliminating language barriers for organizations operating across borders. Accurate extraction enables data-driven decision-making, leading to better financial analysis, compliance checks, and research outcomes. |

## Proposed Solution

Approach

Leveraging the Google Gemini Pro Vision API to create a robust, context-aware document extraction system. The approach includes:

- Integration with Google Gemini Pro Vision API for multilingual document processing.

- Developing algorithms to accurately extract specific information from various types of documents.

- Implementing a user-friendly interface for uploading documents, viewing extracted content, and downloading the data.

- Ensuring security and privacy through robust authentication, encryption, and access controls.

- Optimizing the application for scalability and performance to handle a growing user base.

Key Features

- Multilingual document processing to handle documents in various languages.

- Efficient information extraction tailored to different document types such as invoices, contracts, and research papers.

- Context-aware content extraction that focuses on relevant sections of each document type.

- User-friendly interface for easy document upload, content viewing, and data download.

- Quality assurance mechanisms to handle noisy or poorly scanned images.

- Robust security and privacy measures to protect sensitive information.

- Scalability to handle multiple requests concurrently without compromising performance.