Project Proposal

Project Title: AI-Based Real-Time Quiz Generator

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Project Overview:

This project aims to build an AI-powered quiz generator that fetches questions from the internet in real-time based on user-selected categories (e.g., sports, history, politics). By leveraging web scraping and APIs, the system will collect relevant data, process it using NLP techniques, and generate quiz questions for users to answer. The project showcases AI's utility in information retrieval and question generation.

Proposed Methodology:

The project will use Python for web scraping (using BeautifulSoup) or public APIs (e.g., Wikipedia or News API) to fetch data. NLP libraries like spaCy will be used for processing the text and generating quiz questions. A web interface will be built using Flask to allow users to interact with the system, select categories, and take the quiz. The system will also evaluate answers and provide results.

Data Description:

The data for quiz questions will be scraped from reliable websites or retrieved through APIs in real-time. Depending on the category selected by the user, the system will fetch recent information, such as news articles, Wikipedia pages, or other relevant online content.

Expected Outcomes:

The expected outcome is a functional quiz generator that can dynamically generate quizzes based on user-selected categories from live web data. The system will provide a scoring mechanism and feedback on the user's performance.