

Quizzatron

We one-up QuizUp

Background

Problem Statement:

- Manual quiz creation is time-consuming
- Existing tools lack PDF integration & gamification

Existing Solutions:

- QuizUp: Engaging but manual creation only
- No solution combines PDF automation with gamification

**What is
Quizzatron ?**

What is Quizzatron?

AI-powered quiz generation using LLMs (Gemini/DeepSeek).

User-friendly platform to create and play quizzes on any topic.

Multiple input options: Topic search, PDF upload, or popular categories.

Why Quizzatron?

Why Quizzatron?

Automated & Smart - Generates quizzes instantly from topics or PDFs or popular categories.

Interactive & Fun - Gamified experience with scoring and timers.

Versatile & Scalable - Supports LLM-generated, pre-stored, and API-fetched quizzes.

Data sources:

User PDFs - Personal content, up to 1M tokens

OpenTDB API - Curated questions via direct API integration, filtered by category

OpenTriviaQA - Pre-built question sets from GitHub repository, category-filtered

Use Cases:

Students & casual users - Quick knowledge testing on specific topics

Professors - Efficient exam question sourcing

Developers - Quiz generation API for third-party applications

How Quizzatron?

Design I: Stack

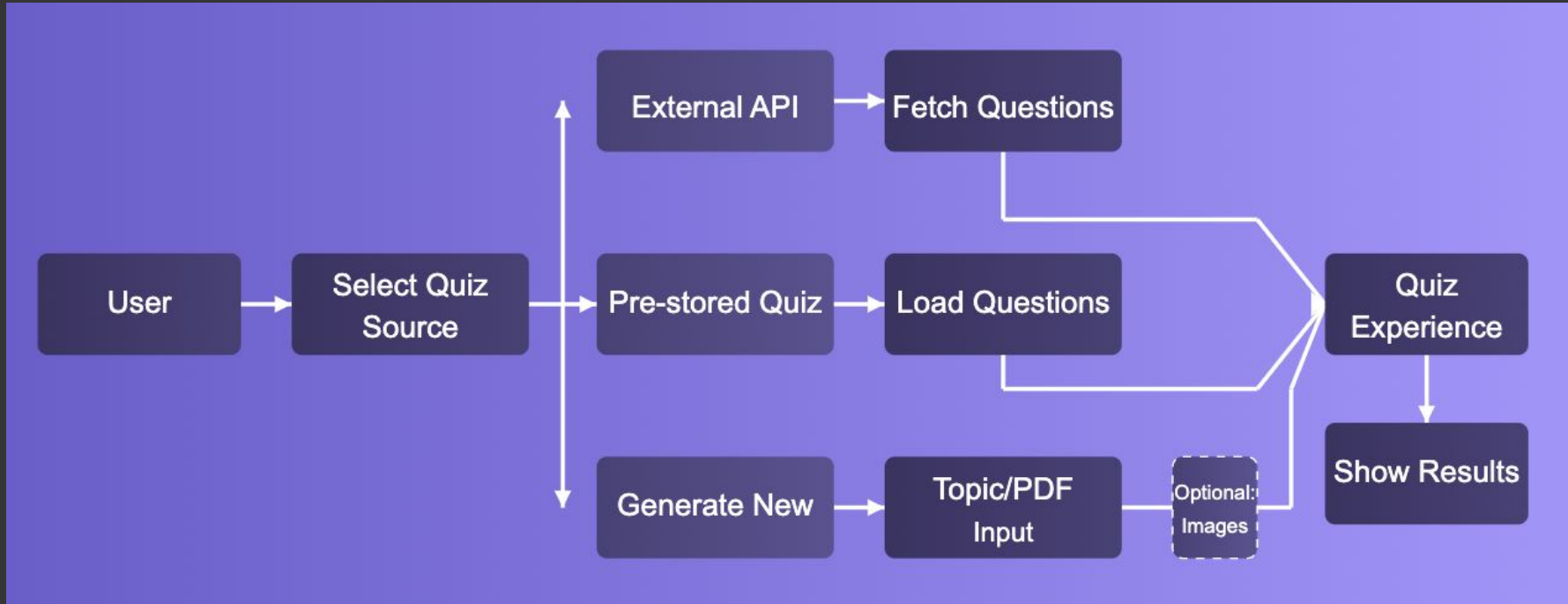
Frontend: React

Backend: Flask API, Python

Database: MongoDB

LLMs: **Gemini Flash-2.0** (genai API), **Deepseek-R1** (ollama)

Design II: Flow diagram



It's Quizzatron time.

FUTURE SCOPE

Future Scope

Multiplayer Mode: Compete with friends in real-time quiz battles.

Personalized Learning: AI adapts difficulty based on user performance.

Crowdsourcing Quiz Data: Enable users to upload their own curated lists and add it to existing database

Try **Quizzatron**
for yourselves!

