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Project Title: *Test Yourself – A Fun Learning Quiz Website*

Introduction

"Test Yourself" is an educational quiz website designed for students of different age groups. It helps users test their knowledge in various subjects through fun and interactive quizzes. The goal is to make learning easy, engaging, and more enjoyable than traditional textbook methods.

By integrating technology with learning, this project aims to break the barriers of traditional classroom methods and make education more accessible, enjoyable, and impactful.

Objective

The main objectives of this project are:

- To build an online quiz platform that promotes learning through play.
- To provide age-specific quizzes tailored to users' learning levels.
- To improve knowledge in subjects like General Knowledge, Maths, Science, Cybersecurity, and Health.
- To give instant results and feedback to help users improve.
- To allow an admin to manage quiz content and track user performance.

Problem Statement

Traditional learning methods often feel boring and repetitive. Students lack interactive platforms to revise or test their understanding in a playful way. "Test Yourself" solves this by offering a gamified quiz system that encourages students to learn while enjoying the process.

Scope of the Project

The scope of "Test Yourself" extends to a wide audience and multiple features:

- **Age Coverage**: Students aged 6 to 20+
- **Subject Coverage**: Maths, Science, General Knowledge, Cybersecurity, Health & Nutrition, and more.
- **Functionality**: Registration, login, quiz participation, scoring, feedback, trivia display, and admin controls.
- **Accessibility**: Usable on desktops, laptops, and mobile browsers.
- **Content Management**: Admin can easily add, edit, or delete quiz questions and categories.
- **User Tracking**: Tracks performance to help identify strong and weak areas.
- **Entertainment + Education**: Fun facts and trivia make learning less stressful and more enjoyable.

Modules of the System

1. **User Module**
   Allows users to register, log in, take quizzes, and view scores and feedback.

2. **Quiz Module**
   Provides quizzes with a timer and scoring system, categorized by age and subject.
3. **Admin Module**
   Enables admin login to manage questions, quizzes, and user records.
4. **Result Module**
   Displays score immediately after quiz with correct and incorrect answers.
5. **Trivia Module**
   Shows interesting facts to keep users engaged and curious.

Technology Stack

- **Frontend**: HTML, CSS, JavaScript, Bootstrap
- **Backend**: Python (Flask Framework)
- **Database**: MySQL
- **Tools Used**: Visual Studio Code, Git, MySQL Workbench

System Design

- **Frontend**: Contains user interfaces like Home, About, Quiz Page, and Dashboard.
- **Backend**: Manages quiz logic, user authentication, score evaluation, and session control.
- **Database**: Stores quiz questions, user records, scores, and feedback data.

Key Features

- Easy and user-friendly interface.
- Age-wise quiz selection.
- Timer-based quizzes.
- Instant result with right/wrong answers.
- Admin dashboard for quiz and user management.
- Trivia and fun facts for enjoyable learning.

Conclusion

"Test Yourself" is a creative learning platform that blends education with fun. It motivates students to improve their knowledge while enjoying the process. The website is simple, informative, and valuable for students, teachers, and parents alike.