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## About Quizzzone

Quizzzone is a hub of Quizzes from different knowledge sectors , subjects and Disciplines . It is a platform where you can test your knowledge , skills and experience in different sectors . It features MCQ Quizzes from General Knowledge , Science , Social Science , Culture & Arts , CBT , Coding , Programming , Markup , Scripting Languages , IT Sectors , Technology , Latest Trends in AI & Core concept of ML etc .

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## Main Disciplines include :

1. Mathematics: Covering Sets and Relation , Trigonometry , Calculus etc.
2. Discrete Mathematics: Major Concepts like Pigeonhole principles , DFS , Basic Proof Technique , Normal Forms , Graphs , etc.
3. Aptitude Test - 1: Common Aptitude Test including Number System , Average , Simple & Compound Interest , Statistics , Business Mathematics , etc.
4. Aptitude Test - 2: Common cocepts include Problem Solving and Logical Reasoning , Grammer , Reading Skills , etc.

## Other Disciplines include :

1. **Field Specific Aptitude Test:** Discipline Specific Sets are designed to test the knowledge of students in their specific skills .
2. **Frontend Development Skill Test - A:** Covering major concepts of HTML , HTML Evolution , Boilerplate , HTML Tags & Attributes , Text and Typography , Lists and Links , Images / Multimedia , Html Tables , Forms - Validation and Advanced Inputs , Introduction to HTML5 , Semantic and Non Semantic Tags , Div / Section and Class / Id , Introduction to CSS and Role of CSS .
3. **Frontend Development Skill Test - B:** Coveing Recaps , Evolution of CSS , Inline / External / Internal CSS , Media CSS , CSS Properties , Selectors / Specificity / Inheritance , Clors / Background and Typography , The CSS Box Model , Layout & Intermediate Concepts , Flexbox Layout , CSS Grid Layout , Responsive Web Design , Transitions / Transforms / Animations , CSS Frameworks and Preprocessors , CSS Performance and Optimization etc .

## Terms of Services :

Please read these Terms of Services and general guidelines carefully. These points are written by me as a student and learner, to help visitors understand how they can view, use, or refer to my Quizzzone while creating their own website or practice projects.

1. Anyone who visits my Quizzzone is allowed to view the source code. You can inspect the page, explore the structure, and understand how the dashboard or pages are created.
2. You are free to take my code or page design as a reference for learning. I request you to modify it according to your own requirements instead of copying it exactly.
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4. Tools such as [Local Storage Manager](#) and [File Manager](#) do not use any backend databases. All data stays inside your browser's Local Storage only. You may experiment with it using the password **admin123**, which is only for learning purposes.
5. I am a student of DPG Degree College, and this website is completely my own practice work. My college or university is not responsible for any incorrect or outdated data shown on this site.
6. This website is hosted using a GitHub Repository and deployed through GitHub Pages: [View Portfolio](#).
7. This site is meant purely for learning, practicing, experimenting, and improving my web development skills. Any content here should not be used by others for personal or official purposes.
8. This portfolio is a simple representation of how I am exploring and growing in web development. I am still learning, and the website will continue to change as I improve my knowledge.
9. In the future, I may learn backend technologies and update the site, but right now, everything here is created only using frontend development.
10. This is an open source Github Project ( Quizzzone ) . You can clone this Repo on your relevant text editor , open the /Quizzzone/index.htm in any browser ( Microsoft Edge , File Explorer , Chrome , Mozilla Firefox , etc .
11. Only **Adult** ( Above 18 ) can Sign Up and create their Account as per age threshold define in Sign Up Site named ( /Quizzzone/Home/SignUp.htm ). You can edit this threshold by reset threshold in **Register()** function.

## Quizzone Project Outline :-

/Quizzone

Home/

- index.html # Homepage (Animated + Login Greeting + SEO)
- SignUp.html # SignUp Page
- Login.html # Login Page
- Dashboard.html # User Dashboard
- Progress.html # Full Visual Analytics Page
- offline.html # Offline Mode UI (for PWA)
- install-app.js # Install App button logic

Global/

- loader.js # Navbar + Footer + Breadcrumb injector
- breadcrumb.html # Breadcrumb UI template
- header.html # Global navigation bar
- footer.html # Global footer
- styles.css # Shared CSS (optional)
- update-detector.js # App Update Detector Popup (PWA)
- sync-offline.js # Offline attempt sync system

Disciplines/

- index.html # Disciplines Listing Page

Mathematics/

- index.html # Subject index

Blogs/

- Chapter1/
  - Topic1.html
  - Topic2.html
  - more topics...
- Chapter2/
  - more chapters...

Quizzes/

- Chapter1/
  - Topic1.html
  - Topic1\_attempts.json (auto generated)
  - Topic2.html
  - more chapters...

Science/

Coding/

CBT/

Aptitude/

Frontend Development/

others...

Competency Tests/

- Test Title 1/
  - SetA.html
  - SetB.html
  - more sets...
- Test Title 2/
  - more tests...

## Quizzone Project Outline ( Countdown ) :-

PWA/	
manifest.json	# PWA manifest
service-worker.js	# PWA caching + offline
icons/	
icon-192.png	
icon-512.png	
QuizzoneLogo.png	# Original logo uploaded by you
icon-192-base64.txt	
icon-512-base64.txt	
logo-base64.txt	
generate-icons.html	# Webpage for uploading your real logo → auto-generate
PNG + Base64 + TXT	
404.html	# Custom Animated 404 Page
app-update.html	# App Update Notice Page (optional)
Assets/	
icons/	
(duplicates symlink to PWA icons allowed)	
images/	
backgrounds/	
README.md	

## ABOUT QUIZZONE PROJECT

### 1. Abstract

Quizzone is a multi-disciplinary, adaptive, and analytics-driven learning platform designed to provide structured assessment, competency evaluation, and personalized academic growth tracking. It unifies Blogs, Quizzes, Competency Tests, and Knowledge Maps into a responsive Single Page Architecture (SPA) capable of operating both online and offline with Progressive Web App (PWA) support. The objective is to empower learners with interactive assessments and real-time performance feedback.

### 2. Technology Stack

The platform is built using HTML5, CSS3, JavaScript (ES6), Chart.js for analytics, LocalStorage for client-side persistence, Service Workers for offline capability, Web App Manifest for installation, and structured directory-based modular architecture. Media-responsive design is applied across six device classes (Mobile-UltraWide). All modules are fully decoupled for scalability.

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### **3. System Architecture & Workflow**

Quizzone uses a hierarchical content structure: Disciplines → Subjects → Chapters → Topics. Each topic supports Blogs, Quizzes, and Competency Sets. User progress (scores, attempts, history, blog completion, and competency records) is stored in a unified Local DB and synchronized when offline mode is reconnected. Dynamic charts, tables, and performance matrices are generated at runtime.

### **4. Data Security & Account Policy**

User credentials, profile details, and progress history are securely stored using hashed identifiers, input validation, and restricted browser APIs. No sensitive data is transferred to external servers. Account recovery uses a multi-field verification approach (DOB + Father Name).

### **5. Offline Capability**

With Service Workers, Quizzone caches essential assets, allowing complete offline browsing of previously loaded pages. The Sync Engine queues offline quiz attempts and restores them when online.

### **6. Update & Notification System**

A built-in App Update Detector checks for latest service worker versions and prompts users. Push Notifications support reminders, alerts, and new content updates.

### **7. References**

Design principles follow modern LMS standards (Coursera, Testbook, Khan Academy), W3C guidelines, and PWA best practices.

### **8. Future Scope**

Planned enhancements include AI-generated personalized learning paths, adaptive difficulty engines, server-side cloud sync, admin CMS, and global leaderboard systems.

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