

jamb_coach_per_subject_limits

JAMB Coach PWA - Per-Subject Subscription Limits Implementation

Task Overview

Successfully updated the JAMB Coach PWA to implement strict per-subject subscription limits, changing from a global 25-question limit to 20 free questions per subject.

Execution Process

1. **Analysis & Planning:** Analyzed current subscription system and created implementation plan
2. **Code Modifications:** Updated core subscription logic, components, and UI elements
3. **Database Alignment:** Fixed subject name mismatches between database and application code
4. **Build & Deployment:** Successfully built and deployed updated application
5. **Testing & Verification:** Tested functionality and verified proper implementation

Key Changes Implemented

Core Subscription System (`useSubscription.ts`)

- Modified from global 25-question limit to **20 questions per subject**
- Updated `checkQuestionAccess()` to require subject parameter and enforce per-subject limits

- Enhanced `getRemainingFreeQuestions()` to support subject-specific queries
- Implemented per-subject status checking in `getSubscriptionStatus()`

User Interface Components

- **SubscriptionBadge:** Now displays per-subject remaining counts (e.g., "15/20")
- **PaywallModal:** Shows subject-specific limit messaging
- **Dashboard:** Displays per-subject progress with lock icons for exceeded limits
- **Practice Pages:** Enforces strict access control per subject

Database Optimization

- Fixed subject name consistency (changed "English" to "English Language")
- Verified question availability across all 5 JAMB subjects

Final Implementation Details

- **Free Limit:** 20 questions per subject (100 total across 5 subjects)
- **Enforcement:** Strict blocking of practice features when subject limits exceeded
- **UI Feedback:** Clear per-subject progress indicators and upgrade prompts
- **User Experience:** Seamless transition between free and premium states

Verification Status

- ✓ **Successfully Implemented:** Per-subject limit tracking and enforcement
- ✓ **UI/UX Updated:** All components reflect new per-subject model
- ✓ **Database Aligned:** Subject names consistent across system
- ✓ **Build & Deploy:** Application successfully deployed to production

Deployment Information

- **New App URL:** <https://m3l9rrqghkjk.space.minimax.io>
- **Status:** Live and operational with per-subject limits enforced

- **Functionality:** Users must subscribe to access content beyond 20 free questions per subject

The JAMB Coach PWA now operates with strict per-subject subscription limits, ensuring maximum conversion potential while providing users with substantial free content (100 total questions across subjects) to evaluate the platform's value.

Key Files

- jamb-coaching-app/src/hooks/useSubscription.ts: Updated subscription hook with per-subject limit tracking and enforcement logic
- jamb-coaching-app/src/components/PaywallModal.tsx: Enhanced paywall modal to display subject-specific limit messaging
- jamb-coaching-app/src/components/SubscriptionBadge.tsx: Updated subscription badge to show per-subject remaining question counts
- jamb-coaching-app/src/pages/SubjectPage.tsx: Modified subject practice page to enforce per-subject access control
- jamb-coaching-app/src/pages/DashboardPage.tsx: Enhanced dashboard to display per-subject progress and subscription status