Explanation for a Developer (SLS Format)

System-Level Specification (SLS) — Reading and Learning Channel MVP

Platform Type: Web application (mobile-first, low bandwidth)

Core Modules

1. **Content Display Engine**

   - Serve text-based reading passages, vocabulary lists, and comprehension questions.

   - Support multiple grade-level categories.

   - Mobile and desktop responsive.

2. **User Interaction**

   - Read passage → answer multiple-choice or short-answer questions.

   - Submit answers → receive correct/incorrect feedback.

   - Optional: Highlight words for definitions or pronunciation.

3. **Feedback Collection**

   - Survey forms for parents and teachers.

   - Store responses in database with timestamp and user type.

4. **Communication Tools**

   - "Write & Share" feature allowing messages via WhatsApp, SMS, or email (triggered from UI).

5. **Donation System**

   - EFT workflow: bank details display → proof-of-payment upload → admin verification.

○ Voucher workflow: code input → voucher API validation → success message.

○ Security: reCAPTCHA, HTTPS, malware scan integration.

6. **Analytics**

○ Google Analytics setup for traffic tracking.

○ Track content usage: page views, completion rates, session time.

Optional Add-Ons (Future Integration)

● AI voice-over for text-to-speech.

● Admin dashboard for content upload/edit.

● Learner accounts with progress tracking.

● Gamification (points, badges, leaderboards).

● Offline content download.

Non-Functional Requirements

● **Performance:** Optimized for low-bandwidth environments.

● **Scalability:** Modular design to add gamification, offline mode, or AI features later.

● **Security:** HTTPS, reCAPTCHA, server-side validation.

● **Accessibility:** Mobile-first design; adjustable text size.