

DAS SYSTEM

Master Blueprint: Static Architecture, Linguistic Logic & Memory Science

System Architect: Static-First, Zero-DB

Target: Free, Ad-Supported, SEO-Dominated

Stack: Next.js 14, MDX, JSON Objects

Linguist: Logic-Based, No Rote

Memorization

Learning Science: Forced Recall, Micro-Logic

Audience: Poor Student -> Fluent Speaker

1. The "Memory Lock" System (Core Philosophy)

Principle: German structures must get "stuck in the learner's brain automatically." We achieve this through repetition, not memorization.

Rule #1: Micro-Logic Rule

One grammar page = One mental rule.

Bad: "German Nouns"

Good: "The -ung Rule: Predicting Gender"

Rule #2: Pattern First, Exception Last

Teach the dominant pattern (99% accuracy). Show exceptions ONLY after the pattern is internalized.

Rule #3: Forced Recall > Passive Reading

Every page must include a Prediction Task, Fill-the-Gap Logic Test, or "Guess Before Reveal" component. No passive scrolling.

Rule #4: Spaced Reinforcement via Cross-Linking

Pages are not islands. Every page links to:

1. Relevant vocab pages
2. Previously learned rules (Back-link)
3. Future dependent rules (Forward-link)

2. Grammar Architecture (The 100+ Static Pages)

Strategy: SEO-Optimized URLs based on the *problem* the learner solves. Content is MDX files.

Grammar Sitemap (A1 - B2)

Lvl	Category	Page Title (Micro-Logic)	SEO URL Slug
A1	Articles	The Suffix Rule (Predicting Gender)	/grammar/articles/suffix-rule-gender
A1	Articles	Groups: -ung, -heit, -keit (Feminine)	/grammar/articles/feminine-groups
A1	Articles	Groups: -ling, -or, -ig (Masculine)	/grammar/articles/masculine-groups
A1	Articles	The Biological Exception (Der/Die)	/grammar/articles/biological-exceptions
A1	Cases	The Nominative (Who is doing it?)	/grammar/cases/nominative-logic
A1	Cases	The Accusative (Direct Object)	/grammar/cases/accusative-direct-object
A2	Cases	The Dative (Indirect Object)	/grammar/cases/dative-indirect-object
A2	Cases	Prepositions: Accusative Only (durch, für)	/grammar/cases/accusative-prepositions
A2	Cases	Prepositions: Dative Only (aus, bei)	/grammar/cases/dative-prepositions
B1	Cases	Two-Way Prepositions (Wo vs. Wohin)	/grammar/cases/two-way-prepositions-wo-wohin
B1	Cases	The Genitive (Possession)	/grammar/cases/genitive-possessive
A1	Verbs	Sein vs. Haben (Perfect Tense)	/grammar/verbs/perfect-sein-haben
A1	Verbs	Separable Prefixes (The Logic)	/grammar/verbs/separable-prefix-logic
A2	Verbs	Inseparable Prefixes (be-, ver-, er-)	/grammar/verbs/inseparable-prefixes
B1	Verbs	Modal Verbs (Subjunctive Meaning)	/grammar/verbs/modals-subjunctive
B1	Verbs	Passive Voice Construction	/grammar/verbs/passive-construction
A2	Structure	TeKaMoLo (Word Order)	/grammar/structure/tekamolo-word-order
A2	Structure	Coordinating Conjunctions (und, aber)	/grammar/structure/coordinating-conjunctions
B1	Structure	The Verb Kick (Subordinate Clauses)	/grammar/structure/verb-kick-nebensatz

B1	Structure	Relative Clauses (Der/Die/Das vs. Welcher/Welche)	/grammar/structure/relative-clauses
B2	Structure	Konjunktiv II (If I were...)	/grammar/structure/konjunktiv2-conditional
B1	Adjectives	Strong Endings (No Article)	/grammar/adjectives/strong-endings
B1	Adjectives	Weak Endings (Der/Die/Das present)	/grammar/adjectives/weak-endings

Grammar Page Template (Technical & UI)

```
// FILE: /grammar/...slug]/page.tsx (MDX Render)
```

```
| HEADER: [H1] The Suffix Rule: Predicting Gender |
| ----- |
| [BREADCRUMB] Home > Grammar > Articles |
```

[LEVEL BADGE: A1] [TAGS: Nouns, Gender]

"Don't memorize genders. Look at the ending.
Most nouns ending in -ung are DIE (Feminine)."

Suffix	Gender	Example	Logic
-ung	die	Lösung	Solution (Process)
-heit	die	Freiheit	Freedom

"You used this rule in die Lösung.
Next up: Learn about Accusative Case."

"Exceptions are rare. E.g., Der Sprung (The jump)."

3. Vocabulary Architecture (Static Object Pages)

Strategy: Vocabulary is logic-grouped, not random. Every word gets a permanent page.

Vocabulary Sitemap Structure

- **By Frequency:** </vocab/frequency/a1/top-100>

- **By Grammar Dependency:** [/vocab/grammar/verbs-with-dative](#)
- **By Word Page:** [/vocab/word/tisch](#)

Data Object Schema (TS Interface)

```
interface VocabEntry {
  id: string;
  word: string;           // "Der Tisch"
  slug: string;           // "tisch"
  level: "A1" | "A2" ...
  ...
  // --- LINGUISTIC LOGIC ---
  gender: "der" | "die" | "das";
  plural: string;          // "die Tische"
  logic_hint: string;      // "Ends in -isch, usually Masculine" (or null)
  type: "noun" | "verb" | "adj";

  ...
  // --- MEMORY LOCK ---
  memory_hook: string;    // "Think: A TISH (dish) is on the table."
  collocations: string[]; // ["Tisch decken", "am Tisch sitzen"]
  common_patterns: string[]; // ["Der Tisch ist groß", "Auf dem Tisch"]

  ...
  // --- GRAMMAR LINKS ---
  related_rules: string[]; // ["/grammar/articles/suffix-rule"] -> Auto-links

  ...
  // --- EXAMPLES ---
  examples: {
    de: string;
    en: string;
    grammar_focus: string; // "Accusative"
  }[];
}
```

Vocabulary Page Template

HEADER: Der Tisch (The Table)	
[AUDIO BUTTON] [LEVEL: A1]	

Der Tisch *die Tische*

"Think: A TISH (dish) is on the table."

"Ends in -isch. This suffix is usually masculine."

1. **den Tisch decken** - to set the table
2. **unter dem Tisch** - under the table

[Quiz Component]

"Translate: The table is big."

> Input: [] (Check Answer)

See also: Der Stuhl | Die Bank

Grammar: Articles Rule

4. SEO & Monetization Strategy (Ad-Supported)

SEO Strategy:

- **Long-Tail Problem Solving:** Optimize for "Why is *Handlung* feminine?", not just "German gender rules."
- **Exam Targets:** Create pages for "Goethe B1 Exam Grammar List" aggregating links to static pages.
- **Crawability:** All pages are HTML. No JS required for Googlebot.

Monetization (Ads):

- **Placement:** Top Sidebar (Sticky) + Bottom of article. Never in-content ads that break reading flow.
- **User Experience:** Ads must be static images/text only. No popups. No videos (distraction).

- **Session Goal:** Maximize "Session Duration" and "Pages per Session" by using the cross-linking "Memory Lock" system.
- **Revenue Target:** Scale content to hit 10,000+ unique grammar/vocab pages to drive massive organic traffic.

5. Technical Implementation: Static Generation

The system uses Next.js `generateStaticParams` to map the data arrays to HTML pages.

The Generator Logic

```
// app/vocabulary/[slug]/page.tsx
import { VOCAB_LIST } from '@/data/vocab-list';

export async function generateStaticParams() {
  // Map the JS object array to 5000+ static pages
  return VOCAB_LIST.map((entry) => ({
    slug: entry.slug
  }));
}

export default function VocabPage({ params }) {
  // Find data in the array (Client bundle or server prop)
  const data = VOCAB_LIST.find(v => v.slug === params.slug);
  return ;
}
```

6. 30-Day Build Roadmap

Day	Task	Deliverable
1-3	Architecture Setup	Next.js SSG, Base Layout, Navigation
4-7	Core Components	"Prediction Task" React Component, "Memory Hook" Card
8-14	Grammar Content Sprint	Write 20 Core Grammar MDX files (Articles, Cases, Basic Verbs)
15-21	Vocab Data Structure	Create Vocab TS Schema. Populate first 500 words with Logic Hints.
22-25	SEO Optimization	Implement Sitemap.xml generation. Meta tags for all pages.
26-28	Ad Integration	Placeholders for Ad slots (Top/Bottom). Clean layout verification.
29-30	Launch & Indexing	Deploy to Vercel. Submit Sitemap to Google Search Console.

FINAL GOAL:

A 100% free platform where a student starts at ***/grammar/articles/suffix-rule*** and, through natural logic and cross-linking, ends up fluent without ever spending a cent.