# **Untitled**

by 19. Manish Padyar

### General metrics

3,067 395

characters words sentences

1 min 34 sec

3 min 2 sec

reading time speaking time

#### Score

## **Writing Issues**



8 Issues left

33

1

7

Critical Advanced

This text scores better than 95% of all texts checked by Grammarly

# **Writing Issues**

Clarity

1 Wordy sentences

- Correctness
  - 1 Determiner use (a/an/the/this, etc.)
  - 1 Closing punctuation



- Delivery
- 1 Incomplete sentences

### **Unique Words**

Measures vocabulary diversity by calculating the percentage of words used only once in your document

54%

unique words

### **Rare Words**

Measures depth of vocabulary by identifying words that are not among the 5,000 most common English words.

43%

rare words

# **Word Length**

Measures average word length

6.4

characters per word

# **Sentence Length**

Measures average sentence length

12

words per sentence

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#### **Chapter 2: Literature Survey**

#### **Problem Statement**

In today's digital age, learning a new language and improving coding skills require engaging and interactive methods. Traditional learning approaches often lack gamification, real-time feedback, and personalization, making the process monotonous and ineffective. Furthermore, existing educational platforms fail to integrate coding with language learning, missing a crucial opportunity to enhance problem-solving and technical skills simultaneously. There is a gap in the market for an interactive, cross-platform educational app that seamlessly combines language learning, coding challenges, quizzes, and gamified experiences. The lack of such a solution makes it difficult for learners to stay motivated, track progress, and apply knowledge in a practical and engaging way.

### **Solution**

To address these challenges, we propose the development of Language Creeper, an innovative cross-platform educational application that enhances language learning through games, quizzes, flashcards, and coding exercises. The app integrates real-time database synchronization, Al-driven learning paths, and gamification to make the learning experience engaging, effective, and personalized.

#### Key features of Language Creeper include:

#### 1. Gamified Learning Experience:

- Users progress through different levels by completing coding challenges, solving quizzes, and unlocking new content.
- A character evolution system rewards users with avatar upgrades and customization based on learning achievements.

#### 2. Coding + Language Learning Integration:

- Unique feature where users must solve coding challenges to progress in language learning games.
- Helps develop **problem-solving skills** alongside linguistic proficiency.

#### 3. AI-Driven Personalized Learning Paths:

- Adapts to the user's learning pace, suggesting quizzes, flashcards,
  and coding exercises based on performance.
- Provides **real-time hints and explanations** using Al-based guidance.

#### 4. Offline Learning Support:

- Users can access quizzes, flashcards, and saved progress offline using Firestore caching.
- Ideal for users in areas with limited internet connectivity.

### 5. Secure Authentication & Cloud Sync:

Uses Firebase Authentication to ensure secure login and progress
 tracking across multiple devices.

#### 6. Interactive Quizzes & Flashcards:

A vast collection of quizzes and AI-driven flashcards help users
 reinforce vocabulary, syntax, and grammar in their chosen language.

#### 7. Leaderboard & Challenges:

• A global leaderboard encourages friendly competition among users.

- Players can challenge friends or random opponents to solve coding problems and quizzes.
- 8. Multiplatform Support (Android & iOS):
  - The Flutter-based design ensures a smooth and consistent experience across multiple devices and screen sizes.

By integrating language learning, coding, and gamification, Language Creeper redefines the way users engage with new languages and technical skills. This app bridges the gap between education and entertainment, making learning an exciting and rewarding adventure

1.	practically and engagingly	Wordy sentences	Clarity
2.	A unique, or The unique	Determiner use (a/an/the/this, etc.)	Correctness
3.	<del>Ideal</del> → It is ideal	Incomplete sentences	Delivery
4.	adventure.	Closing punctuation	Correctness